

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      AdaptorProgressListener.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
6:  *
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26:  *
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28:  *
29:  */
30:
31:
32: package eu.biro.adaptor2;
33:
34: import java.util.EventListener;
35:
36: /**
37:  * @author Pietro
38:  */
39: public interface AdaptorProgressListener
40:     extends EventListener {
41:
42:     void setMaximumForProgress(int max);
43:
44:     void showText(String txt);
45: }
```

05/19/09
16:13:06

BIROAdaptor2/src/eu/biro/adaptor2/AdaptorProgressListener.java

2

```
46: void updateProgressValue();  
47: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      BIROAdaptorConfiguration.java
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30:
31:
32:
33: package eu.biro.adaptor2;
34:
35: import java.io.File;
36: import java.io.FileInputStream;
37: import java.io.FileOutputStream;
38: import java.io.ObjectInputStream;
39: import java.io.ObjectOutputStream;
40:
41: import eu.biro.adaptor2.field.BIROFieldList;
42: import java.util.Calendar;
43: import java.util.Date;
44:
45:
```

BIROAdaptor2/src/eu/biro/adaptor2/BIROAdaptorConfiguration.java

```
46: public class BIROAdaptorConfiguration implements Cloneable, java.io.Serializable {
47:
48:     private static final long serialVersionUID = -7165362834519202703L;
49:     private static BIROAdaptorConfiguration bIROAdaptorConfiguration;
50:     private String name;
51:     private DBMSDriver dbMSDriver;
52:     private String exportFilePath;
53:     private String mergeTableQuery;
54:     private String activityTableQuery;
55:     private BIROFieldList biroFieldList;
56:
57:
58:     private String mergeTableName;
59:     private String activityTableName;
60:     private String mergeTableCreationQuery;
61:     private String activityTableCreationQuery;
62:     private boolean mergeTableSelected;
63:     private boolean activityTableSelected;
64:     private boolean queryConditionSelected;
65:     private String episodeDateColumnName;
66:     private Date episodeStartingDate;
67:     private Date episodeEndingDate;
68:     private boolean activityTableEnabled;
69:
70:
71:     public BIROAdaptorConfiguration() {
72:         this.exportFilePath = "";
73:         this.mergeTableQuery = "SELECT * FROM \"mergetable\"";
74:
75:         this.mergeTableName = "";
76:         this.episodeDateColumnName = "";
77:         this.episodeEndingDate = (Calendar.getInstance()).getTime();
78:         this.episodeStartingDate = (Calendar.getInstance()).getTime();
79:     }
80:
81:     @Override
82:     public String toString() {
83:         return this.name;
84:     }
85:
86:     @Override
87:     public BIROAdaptorConfiguration clone() {
88:         BIROAdaptorConfiguration conf = null;
89:         try {
90:             conf = (BIROAdaptorConfiguration) super.clone();
```

```
91:         } catch (CloneNotSupportedException e) {
92:             e.printStackTrace();
93:         }
94:         // Must clone references:
95:         if (conf.dbMSDriver != null) {
96:             conf.dbMSDriver = (DBMSDriver) conf.dbMSDriver.clone();
97:         }
98:         if (conf.biroFieldList != null) {
99:             conf.biroFieldList = (BIROFieldList) conf.biroFieldList.clone();
100:        }
101:        return conf;
102:    // Upcasts back to Object
103:    }
104:
105:    private BIROAdaptorConfiguration(String name) {
106:        this.name = name;
107:        this.exportFilePath = "Export.zip";
108:        this.mergeTableQuery = "SELECT * FROM \"mergetable\"";
109:    }
110:
111:    public String getName() {
112:        return name;
113:    }
114:
115:    public void setName(String name) {
116:        this.name = name;
117:    }
118:
119:    public String getMergeTableQuery() {
120:        return mergeTableQuery;
121:    }
122:
123:    public void setMergeTableQuery(String mergeTableQuery) {
124:        this.mergeTableQuery = mergeTableQuery;
125:    }
126:
127:    public String getActivityTableQuery() {
128:        return activityTableQuery;
129:    }
130:
131:    public void setActivityTableQuery(String activityDataTableQuery) {
132:        this.activityTableQuery = activityDataTableQuery;
133:    }
134:
135:    public BIROFieldList getBIROFieldList() {
```

```
136:         if (biroFieldList == null) {
137:             biroFieldList = BIROFieldList.newBIROFieldList();
138:         }
139:         return biroFieldList;
140:     }
141:
142:     public void setBIROFieldList(BIROFieldList biroFieldList) {
143:         this.biroFieldList = biroFieldList;
144:     }
145:
146:     public DBMSDriver getDBMSDriver() {
147:         return dbMSDriver;
148:     }
149:
150:     public void setDBMSDriver(DBMSDriver dbMSDriver) {
151:         this.dbMSDriver = dbMSDriver;
152:     }
153:
154:     public String getExportFilePath() {
155:         return exportFilePath;
156:     }
157:
158:     public void setExportFilePath(String exportFilePath) {
159:         this.exportFilePath = exportFilePath;
160:     }
161:
162:
163:
164:     public String getMergeTableCreationQuery() {
165:         return mergeTableCreationQuery;
166:     }
167:
168:     public String getActivityTableCreationQuery() {
169:         return activityTableCreationQuery;
170:     }
171:
172:     public String getMergeTableName() {
173:         return mergeTableName;
174:     }
175:
176:     public String getActivityTableName() {
177:         return activityTableName;
178:     }
179:
180:     public Date getEpisodeEndingDate() {
```

```
181:         return episodeEndingDate;
182:     }
183:
184:     public Date getEpisodeStartingDate() {
185:         return episodeStartingDate;
186:     }
187:
188:     public boolean isMergeTableSelected() {
189:         return mergeTableSelected;
190:     }
191:
192:     public boolean isActivityTableSelected() {
193:         return activityTableSelected;
194:     }
195:
196:     public boolean isQueryConditionSelected() {
197:         return queryConditionSelected;
198:     }
199:
200:     public String getEpisodeDateColumnName() {
201:         return episodeDateColumnName;
202:     }
203:
204:     public void setMergeTableCreationQuery(String mergeTableCreationQuery) {
205:         this.mergeTableCreationQuery = mergeTableCreationQuery;
206:     }
207:
208:     public void setActivityTableCreationQuery(String activityTableCreationQuery) {
209:         this.activityTableCreationQuery = activityTableCreationQuery;
210:     }
211:
212:     public void setMergeTableName(String mergeTableName) {
213:         this.mergeTableName = mergeTableName;
214:     }
215:
216:     public void setActivityTableName(String activityTableName) {
217:         this.activityTableName = activityTableName;
218:     }
219:
220:     public void setMergeTableSelected(boolean mergeTableSelected) {
221:         this.mergeTableSelected = mergeTableSelected;
222:     }
223:
224:     public void setActivityTableSelected(boolean activityTableSelected) {
225:         this.activityTableSelected = activityTableSelected;
```

```
226:     }
227:
228:     public void setQueryConditionSelected(boolean queryConditionSelected) {
229:         this.queryConditionSelected = queryConditionSelected;
230:     }
231:
232:     public void setEpisodeEndingDate(Date episodeEndingDate) {
233:         this.episodeEndingDate = episodeEndingDate;
234:     }
235:
236:     public void setEpisodeStartingDate(Date episodeStartingDate) {
237:         this.episodeStartingDate = episodeStartingDate;
238:     }
239:
240:     public void setEpisodeDateColumnName(String episodeDateColumnName) {
241:         this.episodeDateColumnName = episodeDateColumnName;
242:     }
243:
244:     public boolean isActivityTableEnabled() {
245:         return activityTableEnabled;
246:     }
247:
248:     public void setActivityTableEnabled(boolean activityTableEnabled) {
249:         this.activityTableEnabled = activityTableEnabled;
250:     }
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:     public void saveToFile(File file) throws Exception {
261:         FileOutputStream fos;
262:         ObjectOutputStream oos = null;
263:         try {
264:             file.getParentFile().mkdirs();
265:             fos = new FileOutputStream(file);
266:             oos = new ObjectOutputStream(fos);
267:             oos.writeObject(this);
268:             oos.flush();
269:         } finally {
270:             if (oos != null) {
```

```
271:         oos.close();
272:     }
273: }
274: }
275:
276: private static BIROAdaptorConfiguration readFromFile(File file) throws Exception {
277:     FileInputStream fis;
278:     ObjectInputStream ois = null;
279:     try {
280:         fis = new FileInputStream(file);
281:         ois = new ObjectInputStream(fis);
282:         BIROAdaptorConfiguration conf = (BIROAdaptorConfiguration) ois.readObject();
283:         return conf;
284:     } finally {
285:         if (ois != null) {
286:             ois.close();
287:         }
288:     }
289: }
290:
291: public static BIROAdaptorConfiguration getBIROConfiguration() {
292:     assert bIROAdaptorConfiguration != null : "You should create/load a new configuration first";
293:     return bIROAdaptorConfiguration;
294: }
295:
296: public static void newBIROConfiguration(File f) {
297:     boolean loaded = false;
298:     if (f.exists()) {
299:         try {
300:             bIROAdaptorConfiguration = readFromFile(f);
301:             loaded = true;
302:         } catch (Exception e) {
303:         }
304:     }
305:     if (!loaded) {
306:         bIROAdaptorConfiguration = new BIROAdaptorConfiguration();
307:     }
308: }
309: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      CSVFILEDriverListener.java
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28:  *
29:  */
30: package eu.biro.adaptor2;
31:
32: import java.util.EventListener;
33:
34:
35: public interface CSVFILEDriverListener extends EventListener {
36:     void showText(String txt);
37: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:          DBMSDriver.java
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28:  *
29:  */
30: package eu.biro.adaptor2;
31:
32: import java.sql.Connection;
33: import java.sql.SQLException;
34: import java.sql.Statement;
35:
36: /**
37:  * @author Valentina
38:  */
39: public abstract class DBMSDriver
40:     implements java.io.Serializable, Cloneable {
41:
42:     private static final long serialVersionUID = 7140242272851940722L;
43:     private String dbName;
44:     private String className;
45:     private String protocol;
```

```
46: private String hostAndPort;
47: private String databaseName;
48: private String user;
49: private String pwd;
50: private String hibernateDialect;
51:
52: public DBMSDriver(String dbName, String className, String protocol) {
53:     this.dbMSName = dbName;
54:     this.className = className;
55:     this.protocol = protocol;
56:     this.databaseName = "";
57:     this.hostAndPort = "";
58:     this.pwd = "";
59:     this.user = "";
60: }
61:
62: public String getDBMSName() {
63:     return this.dbMSName;
64: }
65:
66: public String getHibernateDialect() {
67:     return this.hibernateDialect;
68: }
69:
70: public void setHibernateDialect(String hibernateDialect) {
71:     this.hibernateDialect = hibernateDialect;
72: }
73:
74: public void setDBMSName(String sname) {
75:     dbMSName = sname;
76: }
77:
78: public String getClassName() {
79:     return this.className;
80: }
81:
82: public void setClassName(String className) {
83:     this.className = className;
84: }
85:
86: public String getProtocol() {
87:     return this.protocol;
88: }
89:
90: public void setProtocol(String protocol) {
```

```
91:         this.protocol = protocol;
92:     }
93:
94:     public String getHostAndPort() {
95:         return this.hostAndPort;
96:     }
97:
98:     public void setHostAndPort(String hostAndPort) {
99:         this.hostAndPort = hostAndPort;
100:    }
101:
102:    public String getDatabaseName() {
103:        return this.databaseName;
104:    }
105:
106:    public void setDatabaseName(String databaseName) {
107:        this.databaseName = databaseName;
108:    }
109:
110:    public String getUser() {
111:        return this.user;
112:    }
113:
114:    public void setUser(String user) {
115:        this.user = user;
116:    }
117:
118:    public String getPwd() {
119:        return this.pwd;
120:    }
121:
122:    public void setPwd(String pwd) {
123:        this.pwd = pwd;
124:    }
125:
126:    @Override
127:    public String toString() {
128:        return getDBMSname() + " <" + getClassName() + ">";
129:    }
130:
131:    public void initialize() throws Exception {
132:        Class.forName(className);
133:    }
134:
135:    public boolean compare(DBMSDriver dbMSDriver) {
```

```
136:         boolean sameHeader = false;
137:         if (dbMSDriver!=null &&(this.dbMSName).equals(dbMSDriver.getDBMSName()) &&
(this.className).equals(dbMSDriver.getClassName()) && (this.protocol).equals(dbMSDriver.getProtocol())) {
138:             sameHeader = true;
139:         }
140:         return sameHeader;
141:     }
142:
143:     @Override
144:     public DBMSDriver clone() {
145:         Object o = null;
146:         try {
147:             o = super.clone();
148:         } catch (CloneNotSupportedException e) {
149:             e.printStackTrace();
150:         }
151:         return (DBMSDriver)o;
152:     }
153:
154:     /**
155:      * @throws SQLException
156:      */
157:     public void close(Statement st) throws SQLException {
158:     }
159:
160:     public abstract Connection openConnection() throws Exception;
161:
162:     public abstract String getUrl();
163: }
```

```
1: /**
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4:  * File:      Drivers.java
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26:  * GPL Copyright, The BIRO Project
27:  *
28:  */
29: package eu.biro.adaptor2;
30:
31: import eu.biro.csvreader.CSVReader;
32: import java.io.BufferedReader;
33: import java.io.File;
34: import java.io.FileInputStream;
35: import java.io.FileReader;
36: import java.io.IOException;
37: import java.io.InputStreamReader;
38: import java.sql.Connection;
39: import java.sql.DatabaseMetaData;
40: import java.sql.DriverManager;
41: import java.sql.PreparedStatement;
42: import java.sql.ResultSet;
43: import java.sql.SQLException;
44: import java.sql.Statement;
45: import java.util.ArrayList;
```

```
46: import java.util.Arrays;
47: import java.util.List;
48: import java.util.Vector;
49: import javax.swing.event.EventListenerList;
50: import org.plibrary.util.CharList;
51:
52: public final class Drivers {
53:
54:     public static final class HSQLDB
55:         extends DBMSDriver {
56:
57:         private static final long serialVersionUID = -8823472057471712047L;
58:
59:         public HSQLDB() {
60:             super("HSQLDB", "org.hsqldb.jdbcDriver", "jdbc:hsqldb:file");
61:         }
62:
63:         @Override
64:         public Connection openConnection() throws SQLException {
65:             return DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName(),
getUser(), getPwd());
66:         }
67:
68:         @Override
69:         public void close(Statement st) throws SQLException {
70:             st.executeUpdate("SHUTDOWN");
71:         }
72:
73:         @Override
74:         public String getUrl() {
75:             return getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName();
76:         }
77:     }
78:
79:     public static final class POSTGRESQLDriver extends DBMSDriver {
80:
81:         private static final long serialVersionUID = 1178961315739720293L;
82:
83:         public POSTGRESQLDriver() {
84:             super("PostgreSQL", "org.postgresql.Driver", "jdbc:postgresql");
85:             super.setHibernateDialect("org.hibernate.dialect.PostgreSQLDialect");
86:         }
87:
88:         @Override
89:         public Connection openConnection() throws SQLException {
```

BIROAdaptor2/src/eu/biro/adaptor2/Drivers.java

```
90:         return DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName(),
getUser(), getPwd());
91:     }
92:
93:     @Override
94:     public String getUrl() {
95:         return getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName();
96:     }
97: }
98:
99: public static final class MySQLDriver extends DBMSDriver {
100:
101:     private static final long serialVersionUID = 1278961315739720293L;
102:
103:     public MySQLDriver() {
104:         super("MySQL", "com.mysql.jdbc.Driver", "jdbc:mysql");
105:         super.setHibernateDialect("org.hibernate.dialect.MySQLDialect");
106:     }
107:
108:     @Override
109:     public Connection openConnection() throws SQLException {
110:         return DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName(),
getUser(), getPwd());
111:     }
112:
113:     @Override
114:     public String getUrl() {
115:         return getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName();
116:     }
117: }
118:
119: public static final class JDBCODBCDriver extends DBMSDriver {
120:
121:     private static final long serialVersionUID = 1178961315739720291L;
122:
123:     public JDBCODBCDriver() {
124:         super("ODBC Connection", "sun.jdbc.odbc.JdbcOdbcDriver", "jdbc:odbc");
125:     }
126:
127:     @Override
128:     public Connection openConnection() throws SQLException {
129:         //return DriverManager.getConnection(getProtocol() + ":" + getDatabaseName(), getUser(), getPwd());
130:         return DriverManager.getConnection(getProtocol() + ":" + getDatabaseName() + ";UID=" + getUser() +
";PWD=" + getPwd(), "", "");
131:     }
}
```

```
132:
133:     @Override
134:     public String getUrl() {
135:         //return getProtocol() + ":" + getDatabaseName();
136:         return getProtocol() + ":" + getDatabaseName() + ";UID=" + getUser() + ";PWD=" + getPwd();
137:     }
138: }
139:
140: public static final class CSVFILEDriver extends DBMSDriver {
141:
142:     private static final long serialVersionUID = 1278961315739720291L;
143:     private String mergeFileName;
144:     private String activityFileName;
145:     private String separator;
146:     private transient Connection connection;
147:     private transient PreparedStatement insert;
148:     private final transient EventListenerList listeners;
149:
150:     public CSVFILEDriver(String mergeFileName, String activityFileName, String separator) {
151:         super("CSV File", "org.hsqldb.jdbcDriver", "jdbc:hsqldb");
152:         this.setHostAndPort("mem");
153:         this.setDatabaseName("aname");
154:         this.setUser("sa");
155:         this.setPwd("");
156:         this.mergeFileName = mergeFileName;
157:         this.activityFileName = activityFileName;
158:         this.separator = separator;
159:         this.listeners = new EventListenerList();
160:
161:
162:     }
163:
164:     public String getMergeFileName() {
165:         return mergeFileName;
166:     }
167:
168:     public String getActivityFileName() {
169:         return activityFileName;
170:     }
171:
172:     public String getSeparator() {
173:         return separator;
174:     }
175:
176:     @Override
```

BIROAdaptor2/src/eu/biro/adaptor2/Drivers.java

```
177:         public Connection openConnection() throws Exception {
178:             this.connection = DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + "://" +
getDatabaseName(), getUser(), getPwd());
179:             importCsvFileIntoHsqldb();
180:             return connection;
181:
182:
183:         }
184:
185:         @Override
186:         public String getUrl() {
187:             return getProtocol() + "://" + getHostAndPort() + "://" + getDatabaseName();
188:
189:
190:         }
191:
192:         private void importCsvFileIntoHsqldb() throws IOException, SQLException, Exception {
193:             //Merge file import
194:             File mergeFile = new File(this.mergeFileName);
195:             String f = mergeFile.getName();
196:             String mergetable = f.substring(0, f.indexOf('.')).replaceAll("\\s+", "_");
197:             /* if (doesExistTable(mergetable)) {
198:                 return;
199:             }*/
200:             CSVReader csvreader = new CSVReader(new FileReader(mergeFile), ',');
201:             String log = "";
202:             String[] cols;
203:             try {
204:                 /*if (doesExistTable(mergetable)) {
205:                     dropTable(mergetable);
206:                 }*/
207:                 dropTable(mergetable);
208:                 cols = csvreader.readNext();
209:                 initTable(mergetable, cols);
210:                 prepareInsertStatement(mergetable, cols.length);
211:                 while ((cols = csvreader.readNext()) != null) {
212:                     executeInsertStatement(cols);
213:                 }
214:                 insert.close();
215:             } finally {
216:                 csvreader.close();
217:             }
218:             //Activity file import
219:             if (!this.activityFileName.equals("")) {
220:                 File activityFile = new File(this.activityFileName);
```

```
221:         String af = activityFile.getName();
222:         String activitytable = af.substring(0, af.indexOf('.')).replaceAll("\\s+", "_");
223:         /*if (doesExistTable(activitytable)) {
224:             return;
225:         }*/
226:         CSVReader activitycsvreader = new CSVReader(new FileReader(activityFile), separator.charAt(0));
227:
228:         try {
229:             /*
230:             if (doesExistTable(activitytable))
231:             {
232:                 dropTable(activitytable);
233:             }
234:             */
235:             dropTable(activitytable);
236:
237:             cols = activitycsvreader.readNext();
238:             initTable(activitytable, cols);
239:             prepareInsertStatement(activitytable, cols.length);
240:             while ((cols = activitycsvreader.readNext()) != null) {
241:                 executeInsertStatement(cols);
242:             }
243:             insert.close();
244:         } finally {
245:             activitycsvreader.close();
246:         }
247:     }
248:     if (!log.equals("")) {
249:         fireShowText(log);
250:     }
251: }
252:
253: public boolean doesExistTable(String table) throws SQLException {
254:     boolean answ = false;
255:     DatabaseMetaData dbm = connection.getMetaData();
256:     ResultSet r = dbm.getTables(null, null, table, new String[]{"TABLE"});
257:     //System.out.println("does Exists table: " + table + "?");
258:     //ResultSet r = dbm.getTables(null, null, "%", new String[]{"TABLE"});
259:     /* while (r.next()) {
260:         System.out.println(r.getString(3));
261:     }
262:     */
263:     answ = r.next();
264:     r.close();
265:     return answ;
```

```
266:     }
267:
268: void initTable(String table, String[] cols) throws SQLException, Exception {
269:     try {
270:         if (doesExistTable(table)) {
271:             return;
272:         }
273:         CharList l = new CharList("CREATE TABLE \"" + table + "\"( ");
274:         int i = 0;
275:         for (String c : cols) {
276:             l.append("\"" + c + "\" VARCHAR");
277:             if (++i < cols.length) {
278:                 l.append(", ");
279:             }
280:         }
281:         l.append(")");
282:         Statement s = connection.createStatement();
283:         s.executeUpdate(l.toString());
284:         s.close();
285:     } catch (Exception ex) {
286:         throw ex;
287:     }
288: }
289:
290: void prepareInsertStatement(String tableName, int cols) throws SQLException {
291:     CharList l = new CharList("INSERT INTO \"" + tableName + "\" VALUES(");
292:     for (int i = 0; i < cols - 1; i++) {
293:         l.append("?,");
294:     }
295:     l.append("?");
296:     insert = connection.prepareStatement(l.toString());
297: }
298:
299: void executeInsertStatement(Vector<String> params) throws SQLException {
300:     insert.clearParameters();
301:     for (int i = 0; i < params.size(); i++) {
302:         String s = params.elementAt(i);
303:         insert.setString(i + 1, s);
304:     }
305:     insert.executeUpdate();
306: }
307:
308: void executeInsertStatement(String[] params) throws SQLException {
309:     insert.clearParameters();
310:     for (int i = 0; i < params.length; i++) {
```

```
311:         String s = params[i];
312:         insert.setString(i + 1, s);
313:     }
314:     insert.executeUpdate();
315: }
316:
317: void dropTable(String table) throws SQLException, Exception {
318:     try {
319:         String query = "DROP TABLE \"" + table + "\"" IF EXISTS";
320:         Statement s = connection.createStatement();
321:         s.executeUpdate(query);
322:         s.close();
323:     } catch (Exception ex) {
324:         throw ex;
325:     }
326: }
327:
328: public synchronized void addProgressListener(CSVFILEDriverListener l) {
329:     listeners.add(CSVFILEDriverListener.class, l);
330: }
331:
332: public synchronized void removeProgressListener(CSVFILEDriverListener l) {
333:     listeners.remove(CSVFILEDriverListener.class, l);
334: }
335:
336: protected void fireShowText(String text) {
337:     for (CSVFILEDriverListener l : listeners.getListeners(CSVFILEDriverListener.class)) {
338:         l.showText(text);
339:     }
340: }
341: }
342:
343: public static final class MSSQLSERVER20002005Driver extends DBMSDriver {
344:
345:     private static final long serialVersionUID = 1278961315739720293L;
346:
347:     public MSSQLSERVER20002005Driver() {
348:
349:         super("MS SQL Server 2000-2005", "net.sourceforge.jtds.jdbc.Driver", "jdbc:jtds:sqlserver");
350:         super.setHibernateDialect("org.hibernate.dialect.SQLServerDialect");
351:     }
352:
353:     @Override
354:     public Connection openConnection() throws SQLException {
355:         return DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName())
```

```
+ ";user=" + getUser() + ";password=" + getPwd());
356:
357:     }
358:
359:     @Override
360:     public String getUrl() {
361:         return getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName() + ";user=" + getUser() +
";password=" + getPwd();
362:
363:     }
364: }
365:
366: public static final class MSSQLSERVER2008Driver extends DBMSDriver {
367:
368:     private static final long serialVersionUID = 1178961315739720293L;
369:
370:     public MSSQLSERVER2008Driver() {
371:         super("MS SQL Server 2008", "com.microsoft.sqlserver.jdbc.SQLServerDriver", "jdbc:sqlserver");
372:         super.setHibernateDialect("org.hibernate.dialect.SQLServerDialect");
373:     }
374:
375:     @Override
376:     public Connection openConnection() throws SQLException {
377:         System.out.println(getProtocol() + "://" + getHostAndPort() + ";databaseName=" + getDatabaseName() +
";user=" + getUser() + ";password=" + getPwd() + ";");
378:         return DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + ";databaseName=" +
getDatabaseName() + ";user=" + getUser() + ";password=" + getPwd() + ";");
379:     }
380:
381:     @Override
382:     public String getUrl() {
383:
384:         return getProtocol() + "://" + getHostAndPort() + ";databaseName=" + getDatabaseName() + ";user=" +
getUser() + ";password=" + getPwd() + ";";
385:     }
386: }
387:
388: public static final class ORACLE10Driver extends DBMSDriver {
389:
390:     private static final long serialVersionUID = 1178961315639720293L;
391:
392:     public ORACLE10Driver() {
393:         super("Oracle 10g", "oracle.jdbc.Driver.OracleDriver", "jdbc:oracle:thin:@");
394:         super.setHibernateDialect("org.hibernate.dialect.OracleDialect");
395:     }
396: }
```

```
396:         }
397:
398:         @Override
399:         public Connection openConnection() throws SQLException {
400:             return DriverManager.getConnection(getProtocol() + getHostAndPort() + ":" + getDatabaseName(),
getUser(), getPwd());
401:         }
402:
403:         @Override
404:         public String getUrl() {
405:             return getProtocol() + getHostAndPort() + ":" + getDatabaseName();
406:         }
407:     }
408:
409:     public static final class SYBASEDriver extends DBMSDriver {
410:
411:         private static final long serialVersionUID = 1278961315739720293L;
412:
413:         public SYBASEDriver() {
414:             super("SyBase", "net.sourceforge.jtds.jdbc.Driver", "jdbc:jtds:sybase");
415:             super.setHibernateDialect("org.hibernate.dialect.SybaseDialect");
416:         }
417:
418:         @Override
419:         public Connection openConnection() throws SQLException {
420:             return DriverManager.getConnection(getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName()
+ ";user=" + getUser() + ";password=" + getPwd());
421:         }
422:
423:         @Override
424:         public String getUrl() {
425:             return getProtocol() + "://" + getHostAndPort() + "/" + getDatabaseName() + ";user=" + getUser() +
";password=" + getPwd();
426:         }
427:     }
428:
429:
430: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      ProgressListener.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
6:  *
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24:  * for its results.
25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2;
31:
32: import java.util.EventListener;
33:
34: /**
35:  *
36:  * @author Valentina
37:  */
38: public interface ProgressListener extends EventListener {
39:
40:     void setMaximumForProgress(int max);
41:
42:     void showText(String txt);
43:
44:     void updateProgressValue();
45: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      BIROAdaptor2.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
6:  *
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24:  * for its results.
25:  *
26:
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.exporter;
31:
32: import java.io.IOException;
33: import java.sql.ResultSet;
34: import java.sql.SQLException;
35: import java.text.ParseException;
36: import java.text.SimpleDateFormat;
37: import java.util.Date;
38:
39: import javax.swing.event.EventListenerList;
40:
41: import eu.biro.adaptor2.AdaptorProgressListener;
42: import eu.biro.adaptor2.DBMSDriver;
43: import eu.biro.adaptor2.field.BIROField;
44: import eu.biro.adaptor2.field.BIROFieldList;
45: import eu.biro.adaptor2.field.BIROFieldType;
```

```
46: import eu.biro.adaptor2.field.StaticBIROField;
47: import java.text.DateFormat;
48:
49: /**
50:  * This simple class allow one partner to connect to source database and export an XML File
51:  * following BIRO Schema.
52:  *
53:  * @author Pietro
54:  */
55: public final class BIROAdaptor2 {
56:
57:     private final SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
58:     private final Date today = new Date();
59:     private BIROFieldList list;
60:     private DBStreamer streamer;
61:     private FileWriter writer;
62:     // private ProgressCalculator calc;
63:     private String activityTableQuery;
64:     private final transient EventListenerList listeners;
65:
66:     public BIROAdaptor2() {
67:         this.listeners = new EventListenerList();
68:     }
69:
70:     public synchronized void addProgressListener(AdaptorProgressListener l) {
71:         listeners.add(AdaptorProgressListener.class, l);
72:     }
73:
74:     public synchronized void removeProgressListener(AdaptorProgressListener l) {
75:         listeners.remove(AdaptorProgressListener.class, l);
76:     }
77:
78:     protected void fireSetProgressMaximum(int m) {
79:         for (AdaptorProgressListener l : listeners.getListeners(AdaptorProgressListener.class)) {
80:             l.setMaximumForProgress(m);
81:         }
82:     }
83:     // calc = new ProgressCalculator("BIRO XML", c);
84:
85:     protected void fireShowText(String text) {
86:         for (AdaptorProgressListener l : listeners.getListeners(AdaptorProgressListener.class)) {
87:             l.showText(text);
88:         }
89:     }
90:
```

```
91:     protected void fireUpdateProgressValue() {
92:         for (AdaptorProgressListener l : listeners.getListeners(AdaptorProgressListener.class)) {
93:             l.updateProgressValue();
94:         }
95:         // calc.doStep();
96:         // if (calc.hasChanged())
97:         //     calc.printGraphicOutput();
98:     }
99:
100:    public String getNow() {
101:        return formatter.format(today);
102:    }
103:
104:    public void connectToDatabase(DBMSDriver driver, String mergeTableQuery, String activityTableQuery) throws
Exception {
105:        streamer = new DBStreamer(driver);
106:        streamer.setMainQuery(mergeTableQuery);
107:        this.activityTableQuery = activityTableQuery;
108:    }
109:
110:    public void initFileOut(String file) throws IOException {
111:        writer = new FileWriter();
112:        writer.initFile(file, getNow());
113:    }
114:
115:    public void exportBIROFields(BIROFieldList list) throws SQLException, IOException, Exception {
116:        try {
117:            this.list = list;
118:            writeSourceExport();
119:            ResultSet mergetableResultSet = readMergetable();
120:            writeData(mergetableResultSet);
121:            // calc.done();
122:            // calc.printGraphicOutput();
123:        } catch (SQLException e) {
124:            e.printStackTrace();
125:            throw e;
126:        } finally {
127:            streamer.close();
128:            fireShowText("Closing archive, please wait a while..");
129:            // calc.startPrintRotors("Closing archive, please wait a while..");
130:            writer.endFile();
131:            // calc.stopPrintRotors();
132:            System.out.println();
133:        }
134:        // System.out.println("Export file has been created");
```

```
135:     }
136:
137:     private ResultSet readMergetable() throws Exception {
138:         fireShowText("Reading number of rows ...");
139:         //      System.out.print("Reading number of rows ...");
140:         int c = streamer.getNumberOfRows();
141:         fireSetProgressMaximum(c);
142:         fireShowText("Reading " + c + " values [may take a while]");
143:         //      calc.startPrintRotors("Reading " + c + " values [may take a while]");
144:         ResultSet set = streamer.executeMainQuery();
145:         //      calc.stopPrintRotors();
146:         //      calc.printGraphicOutput();
147:         return set;
148:     }
149:
150:     private ResultSet readActivityTable(String id, String idDBColumn) throws Exception {
151:         //Esegue una query sulla ActivityTable ed estrae tutti i record con lo stesso id
152:         ResultSet set = streamer.executeQuery("SELECT * FROM (" + activityTableQuery + ") AS ACTIVITY_DATA_QUERY
WHERE \"" + idDBColumn + "\" = \"" + id + "\";");
153:         return set;
154:     }
155:
156:     private void writeSourceExport() throws SQLException, IOException, ParseException {
157:         writer.startEntry("DataSource");
158:         writer.beginFileWithNode("ECDataSourceExport");
159:         writeSiteHeader();
160:         writeSiteProfile();
161:         writeExportProfile();
162:         writer.endNode();
163:     }
164:
165:     /**
166:      * Writes Site Header. Can be overridden to change static data
167:      */
168:     private void writeSiteHeader() throws SQLException, ParseException {
169:         writer.startNode("SiteHeader");
170:         writer.putSimpleNode("DateHeaderInformationChecked", getNow());
171:         for (BIROField f : list.getFieldsFor(BIROFieldType.SITE_HEADER)) {
172:             if (f.isRecorded()) {
173:                 writer.putSimpleNode(f.getBIROName(), f.getValueToWrite(null));
174:             }
175:         }
176:         writer.endNode();
177:     }
178:
```

```
179:  /**
180:   * Writes Site Profile. Can be overridden to change static data
181:   */
182:  private void writeSiteProfile() throws SQLException, ParseException {
183:      writer.startNode("SiteProfile");
184:      writer.putSimpleNode("DateProfileInformationChecked", getNow());
185:      for (BIROField f : list.getFieldsFor(BIROFieldType.SITE_PROFILE)) {
186:          if (f.isRecorded()) {
187:              writer.putSimpleNode(f.getBIROName(), f.getValueToWrite(null));
188:          }
189:      }
190:      writer.endNode();
191:  }
192:
193:  private void writeExportProfile() {
194:      for (BIROFieldType t : new BIROFieldType[]{BIROFieldType.PROFILE,
195:          BIROFieldType.EPISODE
196:      }) {
197:          for (BIROField f : list.getFieldsFor(t)) {
198:              String biro = f.getBIROName();
199:              String source = f.getDBColumnName();
200:              if (writer.isNull(source)) {
201:                  writer.writeNotPresent(biro);
202:              }
203:              writer.startNode("FieldExportProfiles");
204:              writer.putSimpleNode("FieldName", biro);
205:              writer.putSimpleNode("DateStatusLastReviewed", getNow());
206:              writer.putSimpleNode("Mandatory", f.isMandatory());
207:              writer.putSimpleNode("Recorded", f.isRecorded());
208:              writer.putSimpleNode("Consistency", f.getValidity());
209:              writer.putSimpleNode("Completeness", writer.isNull(source) ? "0" : "100");
210:              writer.putSimpleNode("Routine", !writer.isNull(source));
211:              writer.putSimpleNode("QualityScore", f.getValidity());
212:              writer.endNode();
213:          }
214:      }
215:  }
216:
217:  private void writeData(ResultSet mergeTableResultSet) throws IOException, SQLException, Exception {
218:      try {
219:          String lastId = null;
220:          String lastDate = null;
221:          boolean samePat;
222:          BIROField pId = list.getPatientID();
223:          BIROField epiDate = list.getEpisodeDate();
```

BIROAdaptor2/src/eu/biro/adaptor2/exporter/BIROAdaptor2.java

```
224:      Object dsID = ((StaticBIROField)list.getFieldWithName("DS_ID")).getValue();
225:      DateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");
226:      Date currentDate = new Date();
227:
228:      ResultSet activityTableResultSet = null;
229:      int resultSetRowCounter = 0;
230:      while (mergeTableResultSet.next()) {
231:          resultSetRowCounter++;
232:          fireUpdateProgressValue();
233:          String id = pId.getValueToWrite(mergeTableResultSet);
234:          //System.out.println("ID: " + id);
235:          if (writer.isNull(id)) {
236:              continue;
237:          }
238:          if (!id.equals(lastId)) {
239:              if (lastDate != null) {
240:                  writer.endNode();
241:                  lastDate = null;
242:              }
243:              // nuovo metodo che legge la tabella activity data ( lastID come argomento)
244:              if (!this.activityTableQuery.equals("")) {
245:                  activityTableResultSet = readActivityTable(id, pId.getDBColumnName());
246:              }
247:              lastId = id;
248:              writer.switchPatient();
249:              writer.startNode("DataHeader");
250:              writer.putSimpleNode("DateCreated", dateFormat.format(currentDate));
251:              writer.putSimpleNode("DS_ID", dsID);
252:              writer.endNode();
253:              writer.startNode("Patient");
254:              samePat = false;
255:          } else {
256:              samePat = true;
257:          }
258:
259:          if (!samePat) {
260:              for (BIROField f : list.getFieldsFor(BIROFieldType.PROFILE)) {
261:                  if (!f.isRecorded()) {
262:                      continue;
263:                  }
264:                  String value = null;
265:                  try {
266:                      value = f.getValueToWrite(mergeTableResultSet);
267:                  } catch (Exception e) {
268:                      fireShowText("An error occurred when evaluating row" + resultSetRowCounter + ", column
```

```
" + f.getDBColumnName());
269:         fireShowText(e.getMessage());
270:     }
271:     if (writer.isNull(value) || value == null) {
272:         writer.writeNotPresent(f.getBIROName());
273:         continue;
274:     }
275:     writer.startNode("Profile");
276:     writer.putSimpleNode("ProfileFieldName", f.getBIROName());
277:     //System.out.println("ProfileFieldName" + f.getBIROName());
278:     writer.putSimpleNode("ProfileFieldValue", value);
279:     //System.out.println("ProfileFieldValue" + value);
280:     writer.endNode();
281: }
282: if (!this.activityTableQuery.equals("")) {
283:     while (activityTableResultSet.next()) {
284:         writer.startNode("ActivityData");
285:         for (BIROField f : list.getFieldsFor(BIROFieldType.ACTIVITY_DATA)) {
286:             if (!f.isRecorded()) {
287:                 continue;
288:             }
289:             String value = f.getValueToWrite(activityTableResultSet);
290:             if (writer.isNull(value)) {
291:                 writer.writeNotPresent(f.getBIROName());
292:                 continue;
293:             }
294:             writer.putSimpleNode(f.getNodeName(), value);
295:             //System.out.println(f.getNodeName() + value);
296:         }
297:         writer.endNode();
298:     }
299: }
300: }
301:
302: String date= null;
303: try {
304:     date = epiDate.getValueToWrite(mergeTableResultSet);
305: } catch (Exception e) {
306:     fireShowText("An error occurred when evaluating row" + resultSetRowCounter + ", column " +
epiDate.getDBColumnName());
307:     fireShowText(e.getMessage());
308: }
309: // System.out.println("episode date" + date);
310: if (date == null) {
311:     fireShowText("An error occurred when evaluating row" + resultSetRowCounter + ", column " +
```

```
epiDate.getDBColumnName());
312:         fireShowText("episode date is null");
313:         continue;
314:     }
315:     if (!date.equals(lastDate)) {
316:         if (lastDate != null) {
317:             writer.endNode();
318:         }
319:         lastDate = date;
320:         writer.startNode("EpisodeData");
321:         writer.putSimpleNode("EpisodeDate", date);
322:     }
323:     for (BIROField f : list.getFieldsFor(BIROFieldType.EPISODE)) {
324:         if (!f.isRecorded()) {
325:             continue;
326:         }
327:         String value = f.getValueToWrite(mergeTableResultSet);
328:         if (writer.isNull(value)) {
329:             writer.writeNotPresent(f.getBIROName());
330:             continue;
331:         }
332:         writer.startNode("Data");
333:         writer.putSimpleNode("EpisodeFieldName", f.getBIROName());
334:         //System.out.println("biro name " + f.getBIROName());
335:         writer.putSimpleNode("EpisodeFieldValue", value);
336:         //System.out.println("biro value " + value);
337:         writer.endNode();
338:     }
339: }
340: } finally {
341:     mergeTableResultSet.close();
342: }
343: }
344: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      BIROAdaptorMain.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.exporter;
31:
32: import java.io.File;
33: import java.io.FileInputStream;
34: import java.io.FileNotFoundException;
35: import java.io.IOException;
36: import java.sql.SQLException;
37:
38: import eu.biro.adaptor2.BIROAdaptorConfiguration;
39: import eu.biro.adaptor2.DBMSDriver;
40: import eu.biro.adaptor2.field.BIROFieldList;
41:
42: import org.plibrary.swing.dialog.PasswordAsker;
43: import org.plibrary.util.ObjectStream;
44:
45: public final class BIROAdaptorMain {
```

```
46:
47: private BIROAdaptorMain() {
48:     throw new Error("Cannot instantiate Main");
49: }
50:
51: /**
52:  * Execute BIRO Adaptor<br>
53:  * It requires as arguments:<br>
54:  * 0) Serialized AdaptorConfiguration object file<br>
55:  * 1) Output Directory of the BIRO Xml files<br>
56:  */
57: public static void main(String[] args) {
58:     if (args.length < 1) {
59:         System.err.println("\nUsage:\n\t" + BIROAdaptorMain.class.getName() + " [ConfigFile]");
60:         return;
61:     }
62:
63:     try {
64:
65:         String conf = args[0];
66:         File in = new File(conf);
67:         if (!in.exists()) {
68:             throw new FileNotFoundException("Cannot find the Configuration file at '" + conf + "'");
69:         }
70:         FileInputStream fin = new FileInputStream(in);
71:         BIROAdaptorConfiguration ac = ObjectStream.readObject(BIROAdaptorConfiguration.class, fin);
72:         fin.close();
73:         DBMSDriver driver = ac.getDBMSDriver();
74:         String mergeTableQuery = ac.getMergeTableQuery();
75:         String activityDataTableQuery = ac.getActivityTableQuery();
76:         BIROFieldList list = ac.getBIROFieldList();
77:
78:         String out = ac.getExportFilePath();
79:
80:         String pwd = driver.getPwd();
81:         while (pwd == null) {
82:             PasswordAsker p = new PasswordAsker(null);
83:             if (p.showPasswordDialog(driver.getUser())) {
84:                 driver.setPwd(pwd = p.getPassword());
85:             }
86:         }
87:
88:         BIROAdaptor2 ad = new BIROAdaptor2();
89:         ad.connectToDatabase(driver, mergeTableQuery, activityDataTableQuery);
90:         ad.initFileOut(out);
```

```
91:         ad.exportBIROFields(list);
92:
93:     } catch (ClassNotFoundException e) {
94:         System.out.println("Something wrong with JDBC Driver for:\n" + e.toString());
95:     } catch (SQLException e) {
96:         System.out.println("Something wrong with SQL Access for:\n" + e.toString());
97:     } catch (IOException e) {
98:         System.out.println("Something wrong with IO Access for:\n" + e.toString());
99:     } catch (Exception e) {
100:         System.out.println("Something wrong for:\n" + e.toString());
101:     }
102:
103: }
104: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:          DBStreamer.java
5:  * Authors:       Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.exporter;
31:
32: import java.sql.Connection;
33: import java.sql.ResultSet;
34: import java.sql.SQLException;
35: import java.sql.Statement;
36:
37: import eu.biro.adaptor2.DBMSDriver;
38:
39: public final class DBStreamer {
40:
41:     private final DBMSDriver driver;
42:     private String queryCount, query;
43:
44:     private transient Connection conn;
45:     private transient Statement st;
```

```
46:
47:     public DBStreamer(DBMSDriver driver) throws Exception {
48:         this.driver = driver;
49:         driver.initialize();
50:     }
51:
52:     public void setMainQuery(String query) {
53:         this.query = query + " ";
54:         this.queryCount = "SELECT COUNT(*) FROM (" + query + ") AS N ";
55:     }
56:
57:     public synchronized Connection initConnection() throws Exception {
58:         return driver.openConnection();
59:     }
60:
61:     public synchronized int getNumberOfRows() throws Exception {
62:         ResultSet r = null;
63:         try {
64:             if (conn == null)
65:                 conn = initConnection();
66:             st = conn.createStatement();
67:             r = st.executeQuery(queryCount);
68:             int c = r.next() ? r.getInt(1) : 0;
69:             if (c == 0)
70:                 throw new RuntimeException("Merge table is empty!");
71:             return c;
72:         } finally {
73:             if (r != null)
74:                 r.close();
75:             if (st != null)
76:                 st.close();
77:         }
78:     }
79:
80:     public synchronized ResultSet executeMainQuery() throws SQLException {
81:         st = conn.createStatement();
82:         ResultSet r = st.executeQuery(query);
83:         return r;
84:     }
85:
86:     public synchronized ResultSet executeQuery(String query) throws SQLException {
87:         query = query + " ";
88:         st = conn.createStatement();
89:         ResultSet r = st.executeQuery(query);
90:         return r;
```

```
91:     }
92:
93:
94:     public synchronized void close() throws SQLException {
95:         if (conn != null) {
96:             if (st != null) {
97:                 driver.close(st);
98:                 st.close();
99:             }
100:            conn.close();
101:        }
102:    }
103: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      FileWriter.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.exporter;
31:
32: import java.io.BufferedWriter;
33: import java.io.File;
34: import java.io.FileOutputStream;
35: import java.io.IOException;
36: import java.io.OutputStreamWriter;
37: import java.util.zip.Deflater;
38: import java.util.zip.ZipEntry;
39: import java.util.zip.ZipOutputStream;
40:
41: import org.plibrary.util.Utils;
42: import org.plibrary.xml.parser.XmlDocument;
43: import org.plibrary.xml.parser.XmlNode;
44:
45: public final class FileWriter {
```

```
46:
47:     private final XmlDocument document;
48:     private XmlNode current;
49:
50:     private BufferedWriter out;
51:     private ZipOutputStream zout;
52:     private int currentID = 1;
53:
54:     public FileWriter() {
55:         this.document = new XmlDocument();
56:         this.current = document;
57:     }
58:
59:     /**
60:      * Init the zip file where data will be saved
61:      *
62:      * @param dirName the directory
63:      * @param fileName the filename
64:      * @param date the date of writing
65:      */
66:     public void initFile(String fileName, String date) throws IOException {
67:         File file = new File(fileName);
68:         file.getParentFile().mkdirs();
69:         if (file.exists()) {
70:             if (!Utils.showConfirmDialog("Specified file '" + file
71:                 + "' already exists, overwrite?"))
72:                 throw new IOException("User does not allowed me to overwrite output file");
73:
74:             if (!file.canWrite())
75:                 throw new IOException("Cannot overwrite output file");
76:         }
77:
78:         FileOutputStream out = new FileOutputStream(file);
79:         zout = new ZipOutputStream(out);
80:         zout.setLevel(Deflater.BEST_COMPRESSION);
81:         zout.setMethod(ZipOutputStream.DEFLATED);
82:         zout.setComment("BIRO Export File created on " + date + " -->");
83:     }
84:
85:     /**
86:      * Starts an entry in the zip file
87:      *
88:      * @param name name of entry
89:      */
90:     public void startEntry(String name) throws IOException {
```

```
91:         flush();
92:         ZipEntry e = new ZipEntry(name + ".xml");
93:         zout.putNextEntry(e);
94:         out = new BufferedWriter(new OutputStreamWriter(zout));
95:         writeHeader();
96:     }
97:
98:     /**
99:      * Starts an entry for new patient
100:     */
101:     public void switchPatient() throws IOException {
102:         startEntry(Integer.toString(currentID++));
103:         beginFileWithNode("ECDataExport");
104:         //startNode("Patient");
105:     }
106:
107:     public boolean isNull(Object v) {
108:         return "null".equals(String.valueOf(v));
109:     }
110:
111:
112:     public void writeNotPresent(String field) {
113:         current.appendChild(document.createComment("BIRO field '" + field
114:             + "' has no value in Database"));
115:     }
116:
117:     public void writeHeader() {
118:         document.appendChild(document.createComment("BIRO Export File"));
119:     }
120:
121:     /**
122:      * Starts the new XML file
123:     */
124:     public void beginFileWithNode(String node) {
125:         current = current.appendChild(document.createElement(node));
126:         current.appendChild("xmlns:xsi", "http://www.w3.org/2001/XMLSchema-instance");
127:     }
128:
129:     /**
130:      * Starts a node
131:     */
132:     public void startNode(String node) {
133:         current = current.appendChild(document.createElement(node));
134:     }
135:
```

```
136:  /**
137:   * Ends the current node
138:   */
139:  public void endNode() {
140:      current = current.getParent();
141:  }
142:
143:  /**
144:   * Adds a simple node
145:   */
146:  public void putSimpleNode(String node, Object value) {
147:      current.appendChild(document.createElement(node)).setValue(value);
148:  }
149:
150:  public void flush() throws IOException {
151:      if (out == null)
152:          return;
153:      out.write(document.toString());
154:      out.flush();
155:      document.clearAll();
156:      current = document;
157:  }
158:
159:  public void endFile() throws IOException {
160:      flush();
161:      if (zout != null) {
162:          zout.closeEntry();
163:          zout.flush();
164:          zout.close();
165:      }
166:  }
167: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      AbstractBIROField.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: import java.sql.ResultSet;
33: import java.sql.SQLException;
34: import java.text.ParseException;
35:
36: public abstract class AbstractBIROField
37:     implements BIROField {
38:
39:     private static final long serialVersionUID = 4697698684975011799L;
40:
41:     private final String biroName;
42:     private String colName;
43:     private boolean recorded = false;
44:
45:     public AbstractBIROField(String biroName) {
```

```
46:         this.biroName = biroName;
47:         this.colName=biroName;
48:     }
49:
50:     public boolean isRecorded() {
51:         return recorded || getType().isSiteInfo();
52:     }
53:
54:     public void setRecorded(boolean recorded) {
55:         this.recorded = recorded;
56:     }
57:
58:     /**
59:      * Default to <code>>false</code>
60:      */
61:     public boolean isMandatory() {
62:         return false;
63:     }
64:
65:     /**
66:      * Default to {@link FieldValidity#HIGH}
67:      */
68:     public FieldValidity getValidity() {
69:         return FieldValidity.HIGH;
70:     }
71:
72:     /**
73:      * Default to {@link BIROFieldType#EPISODE}
74:      */
75:     public BIROFieldType getType() {
76:         return BIROFieldType.EPISODE;
77:     }
78:
79:     public void setDBColumnName(String colName) {
80:         this.colName = colName;
81:     }
82:
83:     public String getDBColumnName() {
84:         return this.colName;
85:     }
86:
87:     public String getBIROName() {
88:         return biroName;
89:     }
90:
```

```
91: public String getNodeName() {
92:     return "";
93: }
94:
95:
96: public String getValueToWrite(ResultSet res) throws SQLException, ParseException {
97:     String dbValue = res.getString(getDBColumnName());
98:     String result;
99:     return (dbValue == null || dbValue.matches("\\s*")) ? null : getValueToWrite(dbValue);
100: }
101:
102: public String getDescription() {
103:     return getName();
104: }
105:
106: @Override
107: public String toString() {
108:     return getName();
109: }
110:
111: @Override
112: public BIROField clone() {
113:     try {
114:         BIROField f = (BIROField) super.clone();
115:         return f;
116:     } catch (CloneNotSupportedException e) {
117:         throw new Error(e);
118:     }
119: }
120:
121: protected abstract String getValueToWrite(String dbValue) throws ParseException ;
122:
123:
124: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: import java.sql.ResultSet;
33: import java.sql.SQLException;
34: import java.text.ParseException;
35:
36:
37: public interface BIROField
38:     extends java.io.Serializable, Cloneable {
39:
40:     boolean isMandatory();
41:
42:     void setRecorded(boolean r);
43:
44:     boolean isRecorded();
45: }
```

```
46:    BIROFieldType getType();
47:
48:    FieldValidity getValidity();
49:
50:    String getBIROName();
51:
52:    String getDBColumnName();
53:
54:    void setDBColumnName(String colName);
55:
56:    String getName();
57:
58:    String getNodeName();
59:
60:    String getDescription();
61:
62:    String getValueToWrite(ResultSet res) throws SQLException, ParseException ;
63:
64:    BIROField clone();
65: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      BIROFieldList.java
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27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: import eu.biro.adaptor2.field.activity.EndDate;
33: import eu.biro.adaptor2.field.activity.EndReason;
34: import eu.biro.adaptor2.field.activity.StartDate;
35: import eu.biro.adaptor2.field.activity.StartReason;
36: import java.io.File;
37: import java.io.FileInputStream;
38: import java.io.FileOutputStream;
39: import java.io.IOException;
40: import java.util.Collections;
41: import java.util.Comparator;
42: import java.util.HashMap;
43: import java.util.Iterator;
44: import java.util.LinkedList;
45: import java.util.List;
```

```
46: import java.util.Map;
47:
48: import eu.biro.adaptor2.field.episode.AlchoolIntake;
49: import eu.biro.adaptor2.field.episode.AlcoholStatus;
50: import eu.biro.adaptor2.field.episode.Amputation;
51: import eu.biro.adaptor2.field.episode.AntiPlateletTherapy;
52: import eu.biro.adaptor2.field.episode.AntihypertensiveMedication;
53: import eu.biro.adaptor2.field.episode.AverageInjections;
54: import eu.biro.adaptor2.field.episode.BMI;
55: import eu.biro.adaptor2.field.episode.Blindness;
56: import eu.biro.adaptor2.field.episode.CigarettesPerDay;
57: import eu.biro.adaptor2.field.episode.Creatinine;
58: import eu.biro.adaptor2.field.episode.DiabetesSpecificEducation;
59: import eu.biro.adaptor2.field.episode.DiastolicBloodPressure;
60: import eu.biro.adaptor2.field.episode.EndStageRenalFailure;
61: import eu.biro.adaptor2.field.episode.EpisodeDate;
62: import eu.biro.adaptor2.field.episode.RetinalExamination;
63: import eu.biro.adaptor2.field.episode.FootExamination;
64: import eu.biro.adaptor2.field.episode.FootPulse;
65: import eu.biro.adaptor2.field.episode.FootSensation;
66: import eu.biro.adaptor2.field.episode.FootUlcer;
67: import eu.biro.adaptor2.field.episode.HDL;
68: import eu.biro.adaptor2.field.episode.HbA1c;
69: import eu.biro.adaptor2.field.episode.Height;
70: import eu.biro.adaptor2.field.episode.Hypertension;
71: import eu.biro.adaptor2.field.episode.HypoglicaemicDrugTherapy;
72: import eu.biro.adaptor2.field.episode.Laser;
73: import eu.biro.adaptor2.field.episode.LipidLoweringTherapy;
74: import eu.biro.adaptor2.field.episode.Maculopathy;
75: import eu.biro.adaptor2.field.episode.Microalbumin;
76: import eu.biro.adaptor2.field.episode.MyocardialInfarction;
77: import eu.biro.adaptor2.field.episode.NasalTherapy;
78: import eu.biro.adaptor2.field.episode.OralDrugTherapy;
79: import eu.biro.adaptor2.field.episode.PatientEnrolment;
80: import eu.biro.adaptor2.field.episode.PumpTherapy;
81: import eu.biro.adaptor2.field.episode.RenalDialysis;
82: import eu.biro.adaptor2.field.episode.RenalTransplant;
83: import eu.biro.adaptor2.field.episode.RetinopathyStatus;
84: import eu.biro.adaptor2.field.episode.SelfMonitoring;
85: import eu.biro.adaptor2.field.episode.SmokingStatus;
86: import eu.biro.adaptor2.field.episode.Stroke;
87: import eu.biro.adaptor2.field.episode.SystolicBloodPressure;
88: import eu.biro.adaptor2.field.episode.TotalCholesterol;
89: import eu.biro.adaptor2.field.episode.Triglycerides;
90: import eu.biro.adaptor2.field.episode.Weight;
```

```
91: import eu.biro.adaptor2.field.profile.DateOfBirth;
92: import eu.biro.adaptor2.field.profile.DateOfDiagnosis;
93: import eu.biro.adaptor2.field.profile.PatiendID;
94: import eu.biro.adaptor2.field.profile.Sex;
95: import eu.biro.adaptor2.field.profile.Type_DM;
96: import eu.biro.adaptor2.field.site.ClinicalContact;
97: import eu.biro.adaptor2.field.site.ClinicalContactMailAddress;
98: import eu.biro.adaptor2.field.site.CountryOfOrigin;
99: import eu.biro.adaptor2.field.site.DataSourceDenominator;
100: import eu.biro.adaptor2.field.site.DataSourceID;
101: import eu.biro.adaptor2.field.site.DataSourceName;
102: import eu.biro.adaptor2.field.site.DataSourceType;
103: import eu.biro.adaptor2.field.site.Diabetologists;
104: import eu.biro.adaptor2.field.site.DiseaseManagementProgrammesPhysicians;
105: import eu.biro.adaptor2.field.site.Doctors;
106: import eu.biro.adaptor2.field.site.GeographicalArea;
107: import eu.biro.adaptor2.field.site.HospitalBeds;
108: import eu.biro.adaptor2.field.site.MailingAddress;
109: import eu.biro.adaptor2.field.site.Physicians;
110: import eu.biro.adaptor2.field.site.PostCode;
111: import eu.biro.adaptor2.field.site.SpecialistDiabetesNurses;
112: import eu.biro.adaptor2.field.site.TechnicalContact;
113: import eu.biro.adaptor2.field.site.TechnicalContactMailAddress;
114: import eu.biro.adaptor2.field.site.WebSiteAddress;
115:
116: import org.plibrary.util.CharList;
117: import org.plibrary.util.ObjectStream;
118:
119: public final class BIROFieldList
120:     implements java.io.Serializable, Comparator<BIROField>,
121:     Iterable<BIROField>, Cloneable {
122:
123:     private static final long serialVersionUID = 200812101631L;
124:     private BIROField pId, epiDate;
125:     private final List<BIROField> allFields;
126:     private final Map<String, BIROField> fieldNameMap;
127:     private final Map<BIROFieldType, List<BIROField>> fieldType;
128:
129:     private BIROFieldList() {
130:         allFields = new LinkedList<BIROField>();
131:         fieldNameMap = new HashMap<String, BIROField>();
132:         fieldType = new HashMap<BIROFieldType, List<BIROField>>();
133:     }
134:
135:     private void addBIROFields(BIROField... fields) {
```

```
136:         for (BIROField f : fields)
137:             addBIROField(f);
138:     }
139:
140:     private void addBIROField(BIROField f) {
141:         if (fieldNameMap.containsKey(f.getBIROName()))
142:             throw new IllegalStateException("Field " + f + " already present");
143:         allFields.add(f);
144:         fieldNameMap.put(f.getBIROName(), f);
145:         getFieldList(f.getType()).add(f);
146:         if (f instanceof PatiendID)
147:             pId = f;
148:         else if (f instanceof EpisodeDate)
149:             epiDate = f;
150:     }
151:
152:     private List<BIROField> getFieldList(BIROFieldType type) {
153:         List<BIROField> c = fieldType.get(type);
154:         if (c == null)
155:             fieldType.put(type, c = new LinkedList<BIROField>());
156:         return c;
157:     }
158:
159:     public BIROField getPatientID() {
160:         return pId;
161:     }
162:
163:     public BIROField getEpisodeDate() {
164:         return epiDate;
165:     }
166:
167:     private void populateList() {
168:         clear();
169:         addBIROFields(new WebSiteAddress(), new MailingAddress(1), new MailingAddress(2), new MailingAddress(3),
new MailingAddress(4));
170:         addBIROFields(new PostCode(), new CountryOfOrigin());
171:         addBIROFields(new ClinicalContact(), new ClinicalContactMailAddress(), new TechnicalContact(), new
TechnicalContactMailAddress());
172:         addBIROFields(new DataSourceType(), new DataSourceName());
173:         addBIROFields(new DataSourceDenominator(), new GeographicalArea(), new HospitalBeds());
174:         addBIROFields(new Physicians(), new Diabetologists(), new Doctors());
175:         addBIROFields(new DiseaseManagementProgrammesPhysicians(), new SpecialistDiabetesNurses());
176:
177:         addBIROFields(new PatiendID(), new DataSourceID());
178:         addBIROFields(new Type_DM(), new Sex(), new DateOfBirth(), new DateOfDiagnosis());
```

```
179:
180:         addBIROField(new EpisodeDate());
181:
182:         addBIROFields(new BMI());
183:         addBIROFields(new SmokingStatus(), new CigarettesPerDay(), new AlcoholStatus(), new AlchoolIntake());
184:         addBIROFields(new Weight(), new Height());
185:         addBIROFields(new SystolicBloodPressure(), new DiastolicBloodPressure(), new HbAlc());
186:         addBIROFields(new Creatinine(), new Microalbumin(), new TotalCholesterol(), new HDL(), new
Triglycerides());
187:         addBIROFields(new RetinalExamination(), new RetinopathyStatus(), new Maculopathy(), new FootExamination());
188:         addBIROFields(new FootPulse(), new FootSensation());
189:         addBIROFields(new EndStageRenalFailure(), new RenalDialysis());
190:         addBIROFields(new RenalTransplant(), new Stroke());
191:         addBIROFields(new FootUlcer(), new MyocardialInfarction());
192:         addBIROFields(new Laser(), new Hypertension());
193:         addBIROFields(new Blindness(), new Amputation());
194:         addBIROFields(new AntihypertensiveMedication(), new HypoglicaemicDrugTherapy());
195:         addBIROFields(new OralDrugTherapy(), new PumpTherapy(), new NasalTherapy());
196:         addBIROFields(new AverageInjections(), new DiabetesSpecificEducation(), new SelfMonitoring());
197:         addBIROFields(new LipidLoweringTherapy(), new AntiPlateletTherapy(), new PatientEnrolment());
198:
199:         addBIROFields(new StartDate(), new StartReason(), new EndDate(), new EndReason());
200:         sort();
201:     }
202:
203:     private void sort() {
204:         for (BIROFieldType t : BIROFieldType.values())
205:             Collections.sort(getFieldList(t), this);
206:         Collections.sort(allFields, this);
207:     }
208:
209:     private void clear() {
210:         allFields.clear();
211:         fieldNameMap.clear();
212:         fieldType.clear();
213:     }
214:
215:     public List<BIROField> getFieldsFor(BIROFieldType type) {
216:         return Collections.unmodifiableList(getFieldList(type));
217:     }
218:
219:     public List<BIROField> getAllFields() {
220:         return Collections.unmodifiableList(allFields);
221:     }
222:
```

```
223: public BIROField getFieldWithName(String name) {
224:     return fieldNameMap.get(name);
225: }
226:
227: public int compare(BIROField b1, BIROField b2) {
228:     return b1.getName().compareToIgnoreCase(b2.getName());
229: }
230:
231: @Override
232: public String toString() {
233:     CharList l = new CharList("BIRO Field List: [");
234:     for (BIROField f : getAllFields())
235:         l.append(f.toString()).append(", ");
236:     l.deleteLast(2).append("]");
237:     return l.toString();
238: }
239:
240: public void saveToFile(File f) throws IOException {
241:     FileOutputStream out = new FileOutputStream(f);
242:     try {
243:         ObjectOutputStream.writeObject(this, out);
244:         out.flush();
245:     } finally {
246:         out.close();
247:     }
248: }
249:
250: public Iterator<BIROField> iterator() {
251:     return allFields.iterator();
252: }
253:
254: @Override
255: public BIROFieldList clone() {
256:     BIROFieldList l = new BIROFieldList();
257:     for (BIROField f : this)
258:         l.addBIROField(f.clone());
259:     l.sort();
260:     return l;
261: }
262:
263: public static BIROFieldList newBIROFieldList() {
264:     BIROFieldList l = new BIROFieldList();
265:     l.populateList();
266:     return l;
267: }
```

```
268:
269: public static BIROFieldList readListFromFile(File f) throws IOException {
270:     FileInputStream in = new FileInputStream(f);
271:     try {
272:         BIROFieldList l = ObjectStream.readObject(BIROFieldList.class, in);
273:         return l;
274:     } finally {
275:         in.close();
276:     }
277: }
278: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      BIROFieldType.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: public enum BIROFieldType {
33:
34:     SITE_HEADER,
35:     SITE_PROFILE,
36:     PROFILE,
37:     ACTIVITY_DATA,
38:     EPISODE;
39:
40:     public boolean isSiteInfo() {
41:         return this == SITE_HEADER || this == SITE_PROFILE;
42:     }
43: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      DateBIROField.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: import java.text.DateFormat;
33: import java.text.ParseException;
34: import java.text.SimpleDateFormat;
35: import java.util.Date;
36:
37: /**
38:  * @author Pietro
39:  */
40: public abstract class DateBIROField
41:     extends AbstractBIROField {
42:
43:     private static final long serialVersionUID = -3907165810164866031L;
44:
45:     private static final String DefaultPattern = "yyyy-MM-dd";
```

BIROAdaptor2/src/eu/biro/adaptor2/field/DateBIROField.java

```
46: private static final DateFormat writer = new SimpleDateFormat(DefaultPattern);
47:
48: private SimpleDateFormat format = new SimpleDateFormat();
49: private String pattern;
50:
51: public DateBIROField(String biroName) {
52:     super(biroName);
53:     setPattern(DefaultPattern);
54: }
55:
56: public void setPattern(String pattern) {
57:     this.pattern = pattern;
58:     format.applyPattern(pattern);
59: }
60:
61: public String getPattern() {
62:     return this.pattern;
63: }
64:
65: @Override
66: protected String getValueToWrite(String dbValue) {
67:     Date d;
68:     try {
69:         d = format.parse(dbValue);
70:     } catch (ParseException e) {
71:         throw new IllegalArgumentException("Cannot find a valid mapping for value "
72:             + dbValue
73:             + " in field "
74:             + getBIROName()
75:             + " for "
76:             + e.toString());
77:     }
78:     return writer.format(d);
79: }
80:
81: @Override
82: public BIROField clone() {
83:     DateBIROField f = (DateBIROField) super.clone();
84:     f.format = new SimpleDateFormat(pattern);
85:     f.setPattern(pattern);
86:     return f;
87: }
88: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      EnumeratedBIROField.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: import java.util.Collection;
33: import java.util.LinkedHashMap;
34: import java.util.Map;
35: import java.util.Map.Entry;
36:
37: import eu.biro.adaptor2.value.ValueMapping;
38:
39:
40: public abstract class EnumeratedBIROField
41:     extends AbstractBIROField {
42:
43:     private static final long serialVersionUID = -3684336255977173051L;
44:
45:     private Map<String, ValueMapping> mappings;
```

```
46:
47:     public EnumeratedBIROField(String biroName) {
48:         super(biroName);
49:         mappings = new LinkedHashMap<String, ValueMapping>();
50:     }
51:
52:     /**
53:      * @deprecated Use {@link #setValueMapping(ValueMapping)}
54:      */
55:     @Deprecated
56:     public void addValueMapping(ValueMapping m) {
57:         setValueMapping(m);
58:     }
59:
60:     public void setValueMapping(ValueMapping m) {
61:         mappings.put(m.getBIROValueName(), m);
62:     }
63:
64:     public void removeValueMapping(ValueMapping m) {
65:         mappings.remove(m.getBIROValueName());
66:     }
67:
68:     public void clearValueMappings() {
69:         mappings.clear();
70:     }
71:
72:     public Collection<ValueMapping> getValueMappings() {
73:         return this.mappings.values();
74:     }
75:
76:     @Override
77:     protected String getValueToWrite(String dbValue) {
78:         for (ValueMapping v : mappings.values())
79:             if (v.isValueAccepted(dbValue))
80:                 return v.getBIROValueName();
81:         return null;
82:     }
83:
84:     @Override
85:     public BIROField clone() {
86:         EnumeratedBIROField f = (EnumeratedBIROField) super.clone();
87:         f.mappings = new LinkedHashMap<String, ValueMapping>();
88:         for (Entry<String, ValueMapping> e : mappings.entrySet())
89:             f.mappings.put(e.getKey(), e.getValue().clone());
90:         return f;
```

05/19/09
16:13:06

BIROAdaptor2/src/eu/biro/adaptor2/field/EnumeratedBIROField.java

3

```
91:     }  
92: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      FieldValidity.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: public enum FieldValidity {
33:
34:     HIGH,
35:     MEDIUM,
36:     LOW;
37: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      NumericBIROField.java
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26:  * GPL Copyright, The BIRO Project
27:  *
28:  */
29: package eu.biro.adaptor2.field;
30:
31: import java.text.ParseException;
32: import java.util.Collection;
33: import java.util.LinkedList;
34:
35: import eu.biro.adaptor2.unit.MeasurementUnit;
36: import java.text.NumberFormat;
37: import java.util.Locale;
38:
39: public abstract class NumericBIROField
40:     extends AbstractBIROField {
41:
42:     private static final long serialVersionUID = 1174867085856208251L;
43:     private final MeasurementUnit biroUnit;
44:     private Collection<MeasurementUnit> supportedUnits;
45:     private MeasurementUnit selectedUnit;
```

```
46:
47:     public NumericBIROField(String biroName, MeasurementUnit biroUnit) {
48:         super(biroName);
49:         this.biroUnit = biroUnit;
50:         this.supportedUnits = new LinkedList<MeasurementUnit>();
51:         addSupportedUnit(biroUnit);
52:     }
53:
54:     protected void addSupportedUnit(MeasurementUnit u) {
55:         supportedUnits.add(u);
56:     }
57:
58:     protected void addSupportedUnits(MeasurementUnit... us) {
59:         for (MeasurementUnit u : us) {
60:             addSupportedUnit(u);
61:         }
62:     }
63:
64:     public Collection<MeasurementUnit> getSupportedUnits() {
65:         return supportedUnits;
66:     }
67:
68:     public MeasurementUnit getSelectedUnit() {
69:         return this.selectedUnit;
70:     }
71:
72:     public void setSelectedUnit(MeasurementUnit selectedUnit) {
73:         this.selectedUnit = selectedUnit;
74:     }
75:
76:     protected MeasurementUnit getBIROUnit() {
77:         return biroUnit;
78:     }
79:
80:     @Override
81:     public BIROField clone() {
82:         NumericBIROField f = (NumericBIROField) super.clone();
83:         f.supportedUnits = new LinkedList<MeasurementUnit>(supportedUnits);
84:         f.selectedUnit = selectedUnit;
85:         return f;
86:     }
87:
88:     @Override
89:     protected String getValueToWrite(String dbValue) throws ParseException {
90:         /*
```

```
91:         double v = 0;
92:         Number number = NumberFormat.getNumberInstance(Locale.getDefault()).parse(dbValue);
93:         v = number.doubleValue();
94:         double res = selectedUnit.convertTo(biroUnit, v);
95:         */
96:
97:         double v = Double.parseDouble(dbValue);
98:         double res = selectedUnit.convertTo(biroUnit, v);
99:         return String.valueOf(res);
100:     }
101: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: public abstract class SimpleBIROField
33:     extends AbstractBIROField {
34:
35:     private static final long serialVersionUID = 9180456240949354706L;
36:
37:     private final String name, description;
38:
39:     public SimpleBIROField(String biroName, String name, String description) {
40:         super(biroName);
41:         this.name = name;
42:         this.description = description;
43:     }
44:
45:     public String getName() {
```

```
46:         return this.name;
47:     }
48:
49:     @Override
50:     public String getDescription() {
51:         return this.description;
52:     }
53:
54:
55:     @Override
56:     protected String getValueToWrite(String dbValue) {
57:         return dbValue;
58:     }
59: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:          StaticBIROField.java
5:  * Authors:       Pietro Palladino, Valentina Baglioni
6:  *
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28:  *
29:  */
30: package eu.biro.adaptor2.field;
31:
32: import java.sql.ResultSet;
33:
34: public class StaticBIROField<V>
35:     extends SimpleBIROField {
36:
37:     private static final long serialVersionUID = -5407128551545437768L;
38:
39:     private final Class<? extends V> clazz;
40:     private V value;
41:
42:     public StaticBIROField(Class<V> c, String biroName, String name,
43:         String description) {
44:         super(biroName, name, description);
45:         this.clazz = c;
```

```
46:     }
47:
48:     public Class<? extends V> getTypeClass() {
49:         return this.clazz;
50:     }
51:
52:     public void setValue(V value) {
53:         this.value = value;
54:     }
55:
56:     public V getValue() {
57:         return this.value;
58:     }
59:
60:     @Override
61:     public boolean isMandatory() {
62:         return true;
63:     }
64:
65:     @Override
66:     public String getValueToWrite(ResultSet res) {
67:         return String.valueOf(getValue());
68:     }
69: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      EndDate.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field.activity;
31:
32: import eu.biro.adaptor2.field.profile.*;
33: import eu.biro.adaptor2.field.BIROFieldType;
34: import eu.biro.adaptor2.field.DateBIROField;
35:
36:
37: public final class EndDate extends DateBIROField {
38:
39:     private static final long serialVersionUID = 8921566369806729351L;
40:
41:     public EndDate() {
42:         super("AD_END_DATE");
43:     }
44:
45:     @Override
```

```
46: public BIROFieldType getType() {
47:     return BIROFieldType.ACTIVITY_DATA;
48: }
49:
50: public String getName() {
51:     return "End Date";
52: }
53:
54: public String getNodeName(){
55:     return "AD_END_DATE";
56: }
57:
58: @Override
59: public String getDescription() {
60:     return "Date when the patient exit from the centre";
61: }
62: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      EndReason.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.activity;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.episode.*;
34: import eu.biro.adaptor2.field.EnumeratedBIROField;
35: import eu.biro.adaptor2.value.SimpleValueMapping;
36:
37: public final class EndReason
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = -3478558992133234890L;
41:
42:     public EndReason() {
43:         super("AD_END_REASON");
44:         setValueMapping(new SimpleValueMapping("1", "Died", "1"));
45:         setValueMapping(new SimpleValueMapping("2", "Transferred out", "2"));
```

```
46:         setValueMapping(new SimpleValueMapping("3", "Lost to follow-up","3"));
47:
48:     }
49:
50:     public String getName() {
51:         return "End Reason";
52:     }
53:
54:     @Override
55:     public BIROFieldType getType() {
56:         return BIROFieldType.ACTIVITY_DATA;
57:     }
58:
59:     public String getNodeName() {
60:         return "AD_END_REASON";
61:     }
62:
63:     @Override
64:     public String getDescription() {
65:         return "Reason of the exit from a centre";
66:     }
67: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      StartDate.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.activity;
31:
32: import eu.biro.adaptor2.field.profile.*;
33: import eu.biro.adaptor2.field.BIROFieldType;
34: import eu.biro.adaptor2.field.DateBIROField;
35:
36:
37: public final class StartDate
38:     extends DateBIROField {
39:
40:     private static final long serialVersionUID = 7921566369806729451L;
41:
42:     public StartDate() {
43:         super("AD_START_DATE");
44:     }
45:
```

```
46:     @Override
47:     public BIROFieldType getType() {
48:         return BIROFieldType.ACTIVITY_DATA;
49:     }
50:
51:     public String getName() {
52:         return "Start Date";
53:     }
54:
55:     public String getNodeName(){
56:         return "AD_START_DATE";
57:     }
58:
59:     @Override
60:     public String getDescription() {
61:         return "Date when the patient entered the centre";
62:     }
63: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
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29:  */
30: package eu.biro.adaptor2.field.activity;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.episode.*;
34: import eu.biro.adaptor2.field.EnumeratedBIROField;
35: import eu.biro.adaptor2.value.SimpleValueMapping;
36:
37: public final class StartReason
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = -3478548992133234890L;
41:
42:     public StartReason() {
43:         super("AD_START_REASON");
44:         setValueMapping(new SimpleValueMapping("1", "Born","1"));
45:         setValueMapping(new SimpleValueMapping("2", "Diagnosed","2"));
```

```
46:         setValueMapping(new SimpleValueMapping("3", "Transferred in","3"));
47:
48:     }
49:
50:     @Override
51:     public BIROFieldType getType() {
52:         return BIROFieldType.ACTIVITY_DATA;
53:     }
54:
55:     public String getName() {
56:         return "Start Reason";
57:     }
58:
59:     public String getNodeName() {
60:         return "AD_START_REASON";
61:     }
62:
63:     @Override
64:     public String getDescription() {
65:         return "Reason of the entry into a centre";
66:     }
67: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.GR_PER_DAY;
33: import static eu.biro.adaptor2.unit.DefaultUnits.GR_PER_MONTH;
34: import static eu.biro.adaptor2.unit.DefaultUnits.GR_PER_WEEK;
35:
36: import eu.biro.adaptor2.field.NumericBIROField;
37:
38: /**
39:  * @author Pietro
40:  */
41: public final class AlchoolIntake
42:     extends NumericBIROField {
43:
44:     private static final long serialVersionUID = 4540331883957903936L;
45: }
```

```
46: public AlchoolIntake() {
47:     super("ALCOHOL", GR_PER_WEEK);
48:     addSupportedUnits(GR_PER_DAY, GR_PER_MONTH);
49: }
50:
51: public String getName() {
52:     return "Alcohol Intake";
53: }
54:
55: @Override
56: public String getDescription() {
57:     return "Alcohol intake per average week";
58: }
59: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class AlcoholStatus
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = -7714166195028154193L;
41:
42:     public AlcoholStatus() {
43:         super("ALC_STAT");
44:         setValueMapping(new SimpleValueMapping("1", "Drinker","1"));
45:         setValueMapping(new SimpleValueMapping("2", "Non-Drinker","2"));
```

```
46:         setValueMapping(new SimpleValueMapping("3", "Ex-Drinker", "3"));
47:     }
48:
49:     @Override
50:     public FieldValidity getValidity() {
51:         return FieldValidity.MEDIUM;
52:     }
53:
54:     public String getName() {
55:         return "Alcohol status";
56:     }
57:
58:     @Override
59:     public String getDescription() {
60:         return "Alcohol status at date of contact";
61:     }
62:
63: }
```

```
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class Amputation
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -2032269187554489001L;
40:
41:     public Amputation() {
42:         super("AMPUT");
43:         setValueMapping(new SimpleValueMapping("0", "No Amputation","0"));
44:         setValueMapping(new SimpleValueMapping("1", "Amputation","1"));
45:     }
```

```
46:
47:     public String getName() {
48:         return "Amputation";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Removal of forefoot or part of the lower limb";
54:     }
55: }
```

```
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class AntihypertensiveMedication
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -3209560130585035878L;
40:
41:     public AntihypertensiveMedication() {
42:         super("HYPERT_MED");
43:         setValueMapping(new SimpleValueMapping("0", "No Hypertensive Medication","0"));
44:         setValueMapping(new SimpleValueMapping("1", "Hypertensive Medication","1"));
45:         //setValueMapping(new ExpressionValueMapping.RegExpValueMapping("1", "Hypertensive Medication", "[?]"));

```

```
46:     }
47:
48:     public String getName() {
49:         return "Hypertensive Medication";
50:     }
51: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30:
31: package eu.biro.adaptor2.field.episode;
32:
33: import eu.biro.adaptor2.field.EnumeratedBIROField;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class AntiPlateletTherapy
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = 1985264124145335739L;
41:
42:     public AntiPlateletTherapy() {
43:         super("ANTIPLATELET_THERAPY");
44:         setValueMapping(new SimpleValueMapping("0", "No Anti Platelet Therapy","0"));
45:         setValueMapping(new SimpleValueMapping("1", "Anti Platelet Therapy","1"));
```

```
46:
47:     }
48:
49:     public String getName() {
50:         return "Anti Platelet Therapy";
51:     }
52:
53:
54: }
```

```
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4:  * File:      AverageInjections.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.INJECTIONS_PER_DAY;
33:
34: import eu.biro.adaptor2.field.FieldValidity;
35: import eu.biro.adaptor2.field.NumericBIROField;
36:
37: public final class AverageInjections
38:     extends NumericBIROField {
39:
40:     private static final long serialVersionUID = 3175189129875981638L;
41:
42:     public AverageInjections() {
43:         super("INJECTIONS", INJECTIONS_PER_DAY);
44:     }
45:
```

```
46: public String getName() {
47:     return "Average Injections";
48: }
49:
50: @Override
51: public FieldValidity getValidity() {
52:     return FieldValidity.LOW;
53: }
54: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      Blindness.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.ExpressionValueMapping;
35: import eu.biro.adaptor2.value.SimpleValueMapping;
36:
37:
38: public final class Blindness
39:     extends EnumeratedBIROField {
40:
41:     private static final long serialVersionUID = -4636889698746238865L;
42:
43:     public Blindness() {
44:         super("BLIND");
45:         //setValueMapping(new ExpressionValueMapping.NullValueMapping("0", "No Blindness"));
```

```
46:         setValueMapping(new SimpleValueMapping("0", "No Blindness", "0"));
47:         setValueMapping(new SimpleValueMapping("1", "Blindness", "1"));
48:
49:     }
50:
51:     public String getName() {
52:         return "Blindness";
53:     }
54:
55:     @Override
56:     public FieldValidity getValidity() {
57:         return FieldValidity.MEDIUM;
58:     }
59:
60:     @Override
61:     public String getDescription() {
62:         return "Permanent blindness is defined as permanent visual acuity corrected <3/60 in the better eye";
63:     }
64: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      BMI.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.SimpleBIROField;
34:
35:
36:
37: public final class BMI
38:     extends SimpleBIROField {
39:
40:     private static final long serialVersionUID = -8797606130858141920L;
41:
42:     public BMI() {
43:         super("BMI", "BMI", "Body Mass Index");
44:     }
45:
```

```
46:     @Override
47:     public boolean isMandatory() {
48:         return false;
49:     }
50:
51:     @Override
52:     public BIROFieldType getType() {
53:         return BIROFieldType.EPISODE;
54:     }
55: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      CigarettesPerDay.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.CIGARETTES_PER_DAY;
33: import static eu.biro.adaptor2.unit.DefaultUnits.CIGARETTES_PER_MONTH;
34: import static eu.biro.adaptor2.unit.DefaultUnits.CIGARETTES_PER_WEEK;
35: import static eu.biro.adaptor2.unit.DefaultUnits.PIPES_PER_DAY;
36:
37: import eu.biro.adaptor2.field.FieldValidity;
38: import eu.biro.adaptor2.field.NumericBIROField;
39:
40:
41: public final class CigarettesPerDay
42:     extends NumericBIROField {
43:
44:     private static final long serialVersionUID = 6221683681219421933L;
45: }
```

```
46: public CigarettesPerDay() {
47:     super("CIGS_DAY", CIGARETTES_PER_DAY);
48:     addSupportedUnits(CIGARETTES_PER_WEEK, CIGARETTES_PER_MONTH, PIPES_PER_DAY);
49: }
50:
51: public String getName() {
52:     return "Cigarettes per day";
53: }
54:
55: @Override
56: public FieldValidity getValidity() {
57:     return FieldValidity.MEDIUM;
58: }
59:
60: @Override
61: public String getDescription() {
62:     return "Number of estimated cigarettes (or pipes) per day";
63: }
64: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      Creatinine.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.CREAT_MG_DL;
33: import static eu.biro.adaptor2.unit.DefaultUnits.CREAT_MICRO_MOL_L;
34:
35: import eu.biro.adaptor2.field.NumericBIROField;
36:
37: public final class Creatinine
38:     extends NumericBIROField {
39:
40:     private static final long serialVersionUID = 1786025283633856628L;
41:
42:     public Creatinine() {
43:         super("CREAT", CREAT_MICRO_MOL_L);
44:         addSupportedUnit(CREAT_MG_DL);
45:     }
```

```
46:
47:     public String getName() {
48:         return "Creatinine";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Value of creatinine in  $\hat{t}$ mol/l";
54:     }
55: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      DiabetesSpecificEducation.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class DiabetesSpecificEducation
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = 5850387123064830650L;
41:
42:     public DiabetesSpecificEducation() {
43:         super("EDUCATION");
44:         setValueMapping(new SimpleValueMapping("0", "No Specific Education","0"));
45:     }
46: }
```

```
46:         setValueMapping(new SimpleValueMapping("1", "Specific Education","1"));
47:
48:     }
49:
50:     public String getName() {
51:         return "Diabetes Specific Education";
52:     }
53:
54:     @Override
55:     public FieldValidity getValidity() {
56:         return FieldValidity.LOW;
57:     }
58: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      DiastolicBloodPressure.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.PRESSURE_MM_HG;
33:
34: import eu.biro.adaptor2.field.NumericBIROField;
35:
36:
37: public final class DiastolicBloodPressure
38:     extends NumericBIROField {
39:
40:     private static final long serialVersionUID = 7732926981345948446L;
41:
42:     public DiastolicBloodPressure() {
43:         super("DBP", PRESSURE_MM_HG);
44:     }
45:
```

05/19/09
16:13:00

BIROAdaptor2/src/eu/biro/adaptor2/field/episode/DiastolicBloodPressure.java

2

```
46: public String getName() {  
47:     return "Diastolic blood-pressure";  
48: }  
49: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      EndStageRenalFailure.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class EndStageRenalFailure
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 4987547652930670386L;
40:
41:     public EndStageRenalFailure() {
42:         super("ESRF");
43:         setValueMapping(new SimpleValueMapping("0", "No End Stage Renal Failure", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "End Stage Renal Failure", "1"));
45:     }
```

```
46:
47:     public String getName() {
48:         return "End Stage Renal Failure";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Either serum creatinine is chronically greater than 300umol/l or the patient is placed on
permanent dialysis or received a renal transplant";
54:     }
55: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      EpisodeDate.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.DateBIROField;
33:
34:
35: public final class EpisodeDate
36:     extends DateBIROField {
37:
38:     private static final long serialVersionUID = -7370441337868017597L;
39:
40:     public EpisodeDate() {
41:         super("EPI_DATE");
42:     }
43:
44:     @Override
45:     public boolean isMandatory() {
```

```
46:         return true;
47:     }
48:
49:     public String getName() {
50:         return "Episode Date";
51:     }
52:
53:     @Override
54:     public String getDescription() {
55:         return "Date of recorded episode";
56:     }
57: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      FootExamination.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.ExpressionValueMapping;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class FootExamination extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -1800055745155786982L;
40:
41:     public FootExamination() {
42:         super("FOOT_EXAM");
43:         setValueMapping(new SimpleValueMapping("0", "No Foot Examination","0"));
44:         setValueMapping(new SimpleValueMapping("1", "Foot Examination", "1"));
45:     }
46: }
```

```
46:     }
47:
48:     public String getName() {
49:         return "Foot Examination";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Foot examination perormed";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class FootPulse
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -3457414545479249648L;
40:
41:     public FootPulse() {
42:         super("PULSES");
43:         setValueMapping(new SimpleValueMapping("0", "Absent", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Present", "1"));
45:     }
```

```
46:     }
47:
48:     public String getName() {
49:         return "Foot Pulses";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Foot pulses should be recorded as present if either one or both of the two major arteries
(dorsalis pedis and posterior tibial) of the foot are felt upon physical palpation. The presence of pulses by Doppler
ankle pressure should be interpreted with caution since normal readings may be recorded in the presence of medial
arterial calcification and could be misleading";
55:     }
56:
57:
58:
59: }
```

```
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2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      FootSensation.java
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30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36:
37: public final class FootSensation
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = -5013483184060833075L;
41:
42:     public FootSensation() {
43:         super("FTSENS");
44:         setValueMapping(new SimpleValueMapping("0", "Abnormal foot sensation","0"));
45:         setValueMapping(new SimpleValueMapping("1", "Normal foot sensation","1"));
```

```
46:     }
47:
48:     public String getName() {
49:         return "Foot Sensation";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Foot Sensation can be considered abnormal if monofilament and/or vibration sensation are impaired
as defined below.\nMonofilament Testing: Test for detection of monofilament of 10 gram weight. Apply monofilament to 1st,
3rd & 5th metatarsal heads and plantar surface of great toe and 3rd toe. Failure to detect two or more out of five
stimuli represents abnormal sensation.Vibration Sensation: Test for perception of vibration of a 128 Hz tuning fork over
the medial malleolus for 5 seconds or more.";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      FootUlcer.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class FootUlcer
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -6938818555513536686L;
40:
41:     public FootUlcer() {
42:         super("ULCER");
43:         setValueMapping(new SimpleValueMapping("0", "No Foot Ulcer", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Foot Ulcer", "1"));
45:     }
```

```
46:
47:     public String getName() {
48:         return "Foot Ulcer";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Ulcer is defined as any break in the epithelium greater than a crack below the level of the
malleoli";
54:     }
55: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      HbA1c.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.PERCENT;
33:
34: import eu.biro.adaptor2.field.NumericBIROField;
35:
36:
37: public final class HbA1c
38:     extends NumericBIROField {
39:
40:     private static final long serialVersionUID = 6061958623349816494L;
41:
42:     public HbA1c() {
43:         super("HBA1C", PERCENT);
44:     }
45: }
```

```
46:    public String getName() {
47:        return "HbA1c";
48:    }
49:
50:    @Override
51:    public String getDescription() {
52:        return "Current Glycated haemoglobin value";
53:    }
54: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      HDL.java
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MG_DL;
33: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MMOL;
34:
35: import eu.biro.adaptor2.field.NumericBIROField;
36:
37:
38: public final class HDL
39:     extends NumericBIROField {
40:
41:     private static final long serialVersionUID = 6931705525105994283L;
42:
43:     public HDL() {
44:         super("HDL", CHOL_MMOL);
45:         addSupportedUnit(CHOL_MG_DL);
```

```
46:     }
47:
48:     public String getName() {
49:         return "HDL";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "HDL Cholesterol in mmol/L";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      Height.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.CENTIMETRE;
33: import static eu.biro.adaptor2.unit.DefaultUnits.METRE;
34:
35: import eu.biro.adaptor2.field.NumericBIROField;
36:
37: public final class Height
38:     extends NumericBIROField {
39:
40:     private static final long serialVersionUID = 1004427667333110615L;
41:
42:     public Height() {
43:         super("HEIGHT", METRE);
44:         addSupportedUnits(CENTIMETRE);
45:     }
```

```
46:
47:     public String getName() {
48:         return "Height";
49:     }
50: }
```

```
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2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      Hypertension.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class Hypertension
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 2155200970619102026L;
40:
41:     public Hypertension() {
42:         super("HYPERTENSION");
43:         setValueMapping(new SimpleValueMapping("0", "No Hypertension", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Hypertension", "1"));
45:     }
```

```
46:
47:     public String getName() {
48:         return "Hypertension";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Hypertension treatment or blood pressure > 140/90";
54:     }
55: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      HypoglicaemicDrugTherapy.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class HypoglicaemicDrugTherapy
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -3478558992233234890L;
40:
41:     public HypoglicaemicDrugTherapy() {
42:         super("DRUG_THERAPY");
43:         setValueMapping(new SimpleValueMapping("1", "Insulin only","1"));
44:         setValueMapping(new SimpleValueMapping("2", "Tablet only","2"));
45:         setValueMapping(new SimpleValueMapping("3", "Insulin and Tablet","3"));
```

```
46:         setValueMapping(new SimpleValueMapping("4", "No drug therapy","4"));
47:     }
48:
49:     public String getName() {
50:         return "Hypoglicaemic Drug Therapy";
51:     }
52: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class Laser
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = -8773958957758450102L;
41:
42:     public Laser() {
43:         super("LASER");
44:         setValueMapping(new SimpleValueMapping("0", "No Laser", "0"));
45:         setValueMapping(new SimpleValueMapping("1", "Laser", "1"));
```

```
46:     }
47:
48:     public String getName() {
49:         return "Laser";
50:     }
51:
52:     @Override
53:     public FieldValidity getValidity() {
54:         return FieldValidity.MEDIUM;
55:     }
56:
57:     @Override
58:     public String getDescription() {
59:         return "Laser treatment on eye";
60:     }
61: }
```

```
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MG_DL;
33: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MMOL;
34:
35: import eu.biro.adaptor2.field.NumericBIROField;
36:
37:
38: public final class LDL
39:     extends NumericBIROField {
40:
41:     private static final long serialVersionUID = 6931705525105994283L;
42:
43:     public LDL() {
44:         super("LDL", CHOL_MMOL);
45:         addSupportedUnit(CHOL_MG_DL);
```

```
46:     }
47:
48:     public String getName() {
49:         return "LDL";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "LDL Cholesterol in mmol/L";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      LipidLoweringTherapy.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35: public final class LipidLoweringTherapy
36:     extends EnumeratedBIROField {
37:
38:     private static final long serialVersionUID = 5985264120145735739L;
39:
40:     public LipidLoweringTherapy() {
41:         super("LIPID_THERAPY");
42:         setValueMapping(new SimpleValueMapping("0", "No Lipid Therapy", "0"));
43:         setValueMapping(new SimpleValueMapping("1", "Lipid Therapy", "1"));
44:     }
45:
```

05/19/09
16:13:00

BIROAdaptor2/src/eu/biro/adaptor2/field/episode/LipidLoweringTherapy.java

2

```
46: public String getName() {  
47:     return "Lipid Therapy";  
48: }  
49: }
```

```
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2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30:
31: package eu.biro.adaptor2.field.episode;
32:
33: import eu.biro.adaptor2.field.EnumeratedBIROField;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36: public final class Maculopathy
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -5222349347401816280L;
40:
41:     public Maculopathy() {
42:         super("MACULA");
43:         setValueMapping(new SimpleValueMapping("1", "No Maculopathy","1"));
44:         setValueMapping(new SimpleValueMapping("2", "Referable Maculopathy","2"));
45:     }
```

```
46:
47:     public String getName() {
48:         return "Maculopathy";
49:     }
50: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      Microalbumin.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class Microalbumin
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 6568316939635104765L;
40:
41:     public Microalbumin() {
42:         super("MA_TEST");
43:         setValueMapping(new SimpleValueMapping("0", "No MA Test recorded","0"));
44:         setValueMapping(new SimpleValueMapping("1", "MA test normal","1"));
45:         setValueMapping(new SimpleValueMapping("2", "MA test anormal","2"));
```

```
46:     }
47:
48:     public String getName() {
49:         return "Microalbumin";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Microalbumin test recorded";
55:     }
56: }
```

```
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class MyocardialInfarction
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 9180446666256926233L;
40:
41:     public MyocardialInfarction() {
42:         super("MI");
43:         setValueMapping(new SimpleValueMapping("0", "No Myocardial Infarction", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Myocardial Infarction", "1"));
45:     }
```

```
46:     }
47:
48:     public String getName() {
49:         return "Myocardial Infarction";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Myocardial infarction should be proven by ECG, cardiac enzymes or heart perfusion scan or other
reliable methodology, but not on clinical features alone";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      NasalTherapy.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36: public final class NasalTherapy
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 2820346806964666282L;
40:
41:     public NasalTherapy() {
42:         super("NASAL_THERAPY");
43:         setValueMapping(new SimpleValueMapping("0", "No Nasal Therapy", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Nasal Therapy", "1"));
45:     }
```

```
46:     }
47:
48:     public String getName() {
49:         return "Nasal Therapy";
50:     }
51:
52:     @Override
53:     public FieldValidity getValidity() {
54:         return FieldValidity.MEDIUM;
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      OralDrugTherapy.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class OralDrugTherapy
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -8739799496634148353L;
40:
41:     public OralDrugTherapy() {
42:         super("ORAL_THERAPY");
43:         setValueMapping(new SimpleValueMapping("1", "Sulphonylureas","1"));
44:         setValueMapping(new SimpleValueMapping("2", "Biguanides","2"));
45:         setValueMapping(new SimpleValueMapping("3", "Glucosidase Inhibitors","3"));
```

```
46:         setValueMapping(new SimpleValueMapping("4", "Glitazones","4"));
47:         setValueMapping(new SimpleValueMapping("5", "Glinides","5"));
48:     }
49:
50:     public String getName() {
51:         return "Oral Therapy";
52:     }
53: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      PatientEnrolment.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35: public final class PatientEnrolment
36:     extends EnumeratedBIROField {
37:
38:     private static final long serialVersionUID = 1985264124145335739L;
39:
40:     public PatientEnrolment() {
41:         super("ENROL_DMP");
42:         setValueMapping(new SimpleValueMapping("0", "No Patient Enrolment", "0"));
43:         setValueMapping(new SimpleValueMapping("1", "Patient Enrolment", "1"));
44:     }
45: }
```

```
46:
47:     public String getName() {
48:         return "Patient Enrolment";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Patient Enrolment in Disease Management Programme (DMP) for Diabetes";
54:     }
55: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      PumpTherapy.java
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class PumpTherapy
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 5985374220145735739L;
40:
41:     public PumpTherapy() {
42:         super("PUMP_THERAPY");
43:         setValueMapping(new SimpleValueMapping("0", "No Pump Therapy", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Pump Therapy", "1"));
45:     }
```

```
46:     }  
47:  
48:     public String getName() {  
49:         return "Pump Therapy";  
50:     }  
51: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      RenalDialysis.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35: public final class RenalDialysis
36:     extends EnumeratedBIROField {
37:
38:     private static final long serialVersionUID = -7314367434683637827L;
39:
40:     public RenalDialysis() {
41:         super("DIALYSIS");
42:         setValueMapping(new SimpleValueMapping("0", "No Renal Dialysis", "0"));
43:         setValueMapping(new SimpleValueMapping("1", "Renal Dialysis", "1"));
44:     }
45: }
```

```
46:
47:     public String getName() {
48:         return "Renal Dialysis";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Renal dialysis";
54:     }
55: }
```

```
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2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      RenalTransplant.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class RenalTransplant
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 637710427852650151L;
40:
41:     public RenalTransplant() {
42:         super("TRANSPLANT");
43:         setValueMapping(new SimpleValueMapping("0", "No Renal Transplant","0"));
44:         setValueMapping(new SimpleValueMapping("1", "Renal Transplant","1"));
45:     }
```

```
46:     }
47:
48:     public String getName() {
49:         return "Renal Transplant";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Renal transplant";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class RetinalExamination
38:     extends EnumeratedBIROField{
39:
40:     private static final long serialVersionUID = -4376678199970414812L;
41:
42:     public RetinalExamination() {
43:         super("RETINAL_EXAM");
44:         setValueMapping(new SimpleValueMapping("0", "No Eye Examination", "0"));
45:         setValueMapping(new SimpleValueMapping("1", "Eye Examination", "1"));
```

```
46:
47:     }
48:
49:     public String getName() {
50:         return "Eye Examination";
51:     }
52:
53:     @Override
54:     public String getDescription() {
55:         return "Fundus examination performed";
56:     }
57:
58:     @Override
59:     public FieldValidity getValidity() {
60:         return FieldValidity.HIGH;
61:     }
62:
63: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      RetinopathyStatus.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35: public final class RetinopathyStatus
36:     extends EnumeratedBIROField {
37:
38:     private static final long serialVersionUID = -8820704303224990011L;
39:
40:     public RetinopathyStatus() {
41:         super("RETINA");
42:         setValueMapping(new SimpleValueMapping("1", "No retinopathy", "1"));
43:         setValueMapping(new SimpleValueMapping("2", "Background retinopathy", "2"));
44:         setValueMapping(new SimpleValueMapping("3", "Referable retinopathy", "3"));
45:     }
```

```
46:
47:     public String getName() {
48:         return "Retinopathy Status";
49:     }
50: }
```

```
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class SelfMonitoring
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -7479349581454922505L;
40:
41:     public SelfMonitoring() {
42:         super("SELF_MON");
43:         setValueMapping(new SimpleValueMapping("1", "Urine","1"));
44:         setValueMapping(new SimpleValueMapping("2", "Blood Glucose","2"));
45:         setValueMapping(new SimpleValueMapping("3", "Both", "3"));
```

```
46:     }  
47:  
48:     public String getName() {  
49:         return "Self monitoring";  
50:     }  
51: }
```

```
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29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.field.FieldValidity;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36: public final class SmokingStatus
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = -7728166195028144293L;
40:
41:     public SmokingStatus() {
42:         super("SMOK_STAT");
43:         setValueMapping(new SimpleValueMapping("1", "Smoker", "1"));
44:         setValueMapping(new SimpleValueMapping("2", "Non-Smoker", "2"));
45:         setValueMapping(new SimpleValueMapping("3", "Ex-Smoker", "3"));
```

```
46:     }
47:
48:     @Override
49:     public FieldValidity getValidity() {
50:         return FieldValidity.MEDIUM;
51:     }
52:
53:     public String getName() {
54:         return "Smoking status";
55:     }
56:
57:     @Override
58:     public String getDescription() {
59:         return "Smoking status at date of contact";
60:     }
61:
62: }
```

```
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4:  * File:      Stroke.java
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29: **/
30: package eu.biro.adaptor2.field.episode;
31:
32: import eu.biro.adaptor2.field.EnumeratedBIROField;
33: import eu.biro.adaptor2.value.SimpleValueMapping;
34:
35:
36: public final class Stroke
37:     extends EnumeratedBIROField {
38:
39:     private static final long serialVersionUID = 5475012785559442504L;
40:
41:     public Stroke() {
42:         super("STROKE");
43:         setValueMapping(new SimpleValueMapping("0", "No Stroke", "0"));
44:         setValueMapping(new SimpleValueMapping("1", "Stroke", "1"));
45:     }
```

```
46:     }
47:
48:     public String getName() {
49:         return "Stroke";
50:     }
51:
52:     @Override
53:     public String getDescription() {
54:         return "Cerebrovascular accident";
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:          SystolicBloodPressure.java
5:  * Authors:       Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.PRESSURE_MM_HG;
33:
34: import eu.biro.adaptor2.field.NumericBIROField;
35:
36: public final class SystolicBloodPressure
37:     extends NumericBIROField {
38:
39:     private static final long serialVersionUID = 1056360468621005371L;
40:
41:     public SystolicBloodPressure() {
42:         super("SBP", PRESSURE_MM_HG);
43:     }
44:
45:     public String getName() {
```

05/19/09
16:13:02

BIROAdaptor2/src/eu/biro/adaptor2/field/episode/SystolicBloodPressure.java

2

```
46:         return "Systolic blood-pressure";  
47:     }  
48: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      TotalCholesterol.java
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26:
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28: *
29: **/
30: package eu.biro.adaptor2.field.episode;
31:
32: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MG_DL;
33: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MMOL;
34:
35: import eu.biro.adaptor2.field.NumericBIROField;
36:
37: public final class TotalCholesterol
38:     extends NumericBIROField {
39:
40:     private static final long serialVersionUID = -5005275738142100699L;
41:
42:     public TotalCholesterol() {
43:         super("CHOL", CHOL_MMOL);
44:         addSupportedUnit(CHOL_MG_DL);
45:     }
```

```
46:
47:     public String getName() {
48:         return "Total Cholesterol";
49:     }
50:
51:     @Override
52:     public String getDescription() {
53:         return "Total Cholesterol in mmol/L";
54:     }
55:
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      Triglycerides.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30:
31: package eu.biro.adaptor2.field.episode;
32:
33: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MG_DL;
34: import static eu.biro.adaptor2.unit.DefaultUnits.CHOL_MMOL;
35:
36: import eu.biro.adaptor2.field.NumericBIROField;
37:
38:
39: public final class Triglycerides
40:     extends NumericBIROField {
41:
42:     private static final long serialVersionUID = -6169986707699344184L;
43:
44:     public Triglycerides() {
45:         super("TG", CHOL_MMOL);
```

```
46:         addSupportedUnit(CHOL_MG_DL);
47:     }
48:
49:     public String getName() {
50:         return "Triglycerides";
51:     }
52:
53:     @Override
54:     public String getDescription() {
55:         return "Triglycerides in mmol/L";
56:     }
57: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      Weight.java
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26:  *
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28:  *
29:  */
30:
31: package eu.biro.adaptor2.field.episode;
32:
33: import static eu.biro.adaptor2.unit.DefaultUnits.GRAMS;
34: import static eu.biro.adaptor2.unit.DefaultUnits.KILOGRAMS;
35:
36: import eu.biro.adaptor2.field.NumericBIROField;
37:
38: public final class Weight
39:     extends NumericBIROField {
40:
41:     private static final long serialVersionUID = 6885128576984584121L;
42:
43:     public Weight() {
44:         super("WEIGHT", KILOGRAMS);
45:         addSupportedUnits(GRAMS);
```

```
46:     }  
47:  
48:     public String getName() {  
49:         return "Weight";  
50:     }  
51: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      DateOfBirth.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.profile;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.DateBIROField;
34:
35:
36: public final class DateOfBirth
37:     extends DateBIROField {
38:
39:     private static final long serialVersionUID = -1351815769629329691L;
40:
41:     public DateOfBirth() {
42:         super("DOB");
43:     }
44:
45:     @Override
```

```
46:    public BIROFieldType getType() {
47:        return BIROFieldType.PROFILE;
48:    }
49:
50:    public String getName() {
51:        return "Date of Birth";
52:    }
53:
54:    @Override
55:    public boolean isMandatory() {
56:        return true;
57:    }
58: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      DateOfDiagnosis.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.profile;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.DateBIROField;
34:
35: public final class DateOfDiagnosis
36:     extends DateBIROField {
37:
38:     private static final long serialVersionUID = 7921566369806729351L;
39:
40:     public DateOfDiagnosis() {
41:         super("DT_DIAG");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

```
46:         return BIROFieldType.PROFILE;
47:     }
48:
49:     public String getName() {
50:         return "Date of Diagnosis";
51:     }
52: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      PatiendID.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.profile;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.SimpleBIROField;
34:
35: public final class PatiendID
36:     extends SimpleBIROField {
37:
38:     private static final long serialVersionUID = -8797606130858141920L;
39:
40:     public PatiendID() {
41:         super("PAT_ID", "Patient ID", "Unique patient identification number assigned by centre");
42:     }
43:
44:     @Override
45:     public boolean isMandatory() {
```

```
46:         return true;
47:     }
48:
49:     @Override
50:     public BIROFieldType getType() {
51:         return BIROFieldType.PROFILE;
52:     }
53: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      Sex.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.profile;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.EnumeratedBIROField;
34: import eu.biro.adaptor2.value.ExpressionValueMapping;
35: import eu.biro.adaptor2.value.SimpleValueMapping;
36:
37:
38: public final class Sex
39:     extends EnumeratedBIROField {
40:
41:     private static final long serialVersionUID = 2063398919477593952L;
42:
43:     public Sex() {
44:         super("SEX");
45:         setValueMapping(new SimpleValueMapping("1", "Male", "M));
```

BIROAdaptor2/src/eu/biro/adaptor2/field/profile/Sex.java

```
46:         setValueMapping(new SimpleValueMapping("2", "Female", "F"));
47:         setValueMapping(new ExpressionValueMapping.NullValueMapping("0", "No Blindness"));
48:     }
49:
50:     @Override
51:     public BIROFieldType getType() {
52:         return BIROFieldType.PROFILE;
53:     }
54:
55:     public String getName() {
56:         return "Sex";
57:     }
58:
59:     @Override
60:     public String getDescription() {
61:         return "Gendre of patient";
62:     }
63:     @Override
64:     public boolean isMandatory() {
65:         return true;
66:     }
67: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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29:  */
30: package eu.biro.adaptor2.field.profile;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.EnumeratedBIROField;
34: import eu.biro.adaptor2.value.SimpleValueMapping;
35:
36:
37: public final class Type_DM
38:     extends EnumeratedBIROField {
39:
40:     private static final long serialVersionUID = 8204116820134842300L;
41:
42:     public Type_DM() {
43:         super("TYPE_DM");
44:         setValueMapping(new SimpleValueMapping("1", "Type 1","1"));
45:         setValueMapping(new SimpleValueMapping("2", "Type 2","2"));
```

```
46:         setValueMapping(new SimpleValueMapping("3", "Other Types", "3"));
47:     }
48:
49:     @Override
50:     public BIROFieldType getType() {
51:         return BIROFieldType.PROFILE;
52:     }
53:
54:     @Override
55:     public boolean isMandatory() {
56:         return true;
57:     }
58:
59:     public String getName() {
60:         return "Type of Diabetes";
61:     }
62: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class ClinicalContact
36:     extends StaticBIROField<String> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public ClinicalContact() {
41:         super(String.class, "DS_C_CONTACT", "Clinical Contact", "Clinical representative from Data Source");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

05/19/09
16:13:04

BIROAdaptor2/src/eu/biro/adaptor2/field/site/ClinicalContact.java

2

```
46:         return BIROFieldType.SITE_HEADER;
47:     }
48:
49:
50: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:          ClinicalContactMailAddress.java
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27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class ClinicalContactMailAddress
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public ClinicalContactMailAddress() {
42:         super(String.class, "DS_C_EMAIL", "Clinical Contact Email Address", "Email address of Data Source clinical
representative");
43:     }
44:
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_HEADER;
48:      }
49:
50: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:          CountryOfOrigin.java
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29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class CountryOfOrigin
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public CountryOfOrigin() {
42:         super(String.class, "DS_COUNTRY", "Country of Origin", "The country from which the clinical data
originates");
43:     }
44: }
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_HEADER;
48:      }
49: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      DataSourceDenominator.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class DataSourceDenominator
36:     extends StaticBIROField<Integer> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public DataSourceDenominator() {
41:         super(Integer.class, "DS_DENOM", "Data Source Denominator", "Current data source population");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

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16:13:04

BIROAdaptor2/src/eu/biro/adaptor2/field/site/DataSourceDenominator.java

2

```
46:         return BIROFieldType.SITE_PROFILE;
47:     }
48: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      DataSourceID.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class DataSourceID
36:     extends StaticBIROField<Integer> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public DataSourceID() {
41:         super(Integer.class, "DS_ID", "Data Source ID", "Unique centre identification number");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

05/19/09
16:13:04

BIROAdaptor2/src/eu/biro/adaptor2/field/site/DataSourceID.java

2

```
46:         return BIROFieldType.SITE_HEADER;
47:     }
48: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      DataSourceName.java
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class DataSourceName
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public DataSourceName() {
42:         super(String.class, "DS_NAME", "Data Source Name", "Name used to describe local data source");
43:     }
44:
45:     @Override
```

```
46: public BIROFieldType getType() {  
47:     return BIROFieldType.SITE_HEADER;  
48: }  
49: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      DataSourceType.java
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26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class DataSourceType
36:     extends StaticBIROField<Integer> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public DataSourceType() {
41:         super(Integer.class, "DS_TYPE", "Data Source Type", "The type of source from which data has been sourced");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

```
46:         return BIROFieldType.SITE_PROFILE;
47:     }
48:
49:     @Override
50:     public void setValue(Integer value) {
51:         int v = value.intValue();
52:         if (v < 1 || v > 20)
53:             throw new IllegalArgumentException("Only value from 1 to 20 is accepted");
54:         super.setValue(value);
55:     }
56: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      Diabetologists.java
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27:  *
28:  */
29:
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class Diabetologists
36:     extends StaticBIROField<Integer> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public Diabetologists() {
41:         super(Integer.class, "DS_DIABETOLOGISTS", "Diabetologists", "Diabetologists within data source
geographical area. Data should come from national Specialist Registers");
42:     }
43:
44:     @Override
```

```
45: public BIROFieldType getType() {  
46:     return BIROFieldType.SITE_PROFILE;  
47: }  
48: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      DiseaseManagementProgrammesPhysicians.java
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class DiseaseManagementProgrammesPhysicians
37:     extends StaticBIROField<Integer> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public DiseaseManagementProgrammesPhysicians() {
42:         super(Integer.class, "DS_DMP_PHYSICIANS", "Physicians Offering DMP", "The number of Physicians offering
and recruiting for structured Diabetes Disease Management Programmes");
43:     }
44:
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_PROFILE;
48:      }
49: }
```

```
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27:  *
28:  */
29:
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class Doctors
36:     extends StaticBIROField<Integer> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public Doctors() {
41:         super(Integer.class, "DS_DOCTORS", "Doctors", "Number of doctors who regularly take care of diabetic
patients in diabetes clinics in primary or secondary care within data source geographical area");
42:     }
43:
44:     @Override
```

```
45: public BIROFieldType getType() {  
46:     return BIROFieldType.SITE_PROFILE;  
47: }  
48: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class GeographicalArea
36:     extends StaticBIROField<Integer> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public GeographicalArea() {
41:         super(Integer.class, "DS_AREA", "Geographical Area", "Area of coverage for data source");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

05/19/09
16:13:04

BIROAdaptor2/src/eu/biro/adaptor2/field/site/GeographicalArea.java

2

```
46:         return BIROFieldType.SITE_PROFILE;
47:     }
48: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class HospitalBeds
37:     extends StaticBIROField<Integer> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public HospitalBeds() {
42:         super(Integer.class, "DS_BEDS", "Hospital Beds", "Total hospital beds within data source geographical area
- not separated by category");
43:     }
44:
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_PROFILE;
48:      }
49: }
```

```
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class MailingAddress
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     private final int index;
42:
43:     public MailingAddress(int index) {
44:         super(String.class, "DS_ADDRESS_" + index, "Mailing Address", "Line "
45:             + index + " of mailing address");
```

```
46:         this.index = index;
47:     }
48:
49:     @Override
50:     public boolean isMandatory() {
51:         return (index == 1 || index == 2);
52:     }
53:
54:     @Override
55:     public BIROFieldType getType() {
56:         return BIROFieldType.SITE_HEADER;
57:     }
58: }
```

BIROAdaptor2/src/eu/biro/adaptor2/field/site/Physicians.java

```
1: /**
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class Physicians
37:     extends StaticBIROField<Integer> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public Physicians() {
42:         super(Integer.class, "DS_PHYSICIANS", "Physicians", "Physicians within data source geographical area.
National statistics can provide information on this indicator");
43:     }
44: }
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_PROFILE;
48:      }
49: }
```

```
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28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35: public final class PostCode
36:     extends StaticBIROField<String> {
37:
38:     private static final long serialVersionUID = -1010765940024263615L;
39:
40:     public PostCode() {
41:         super(String.class, "DS_POST_CODE", "Post Code", "Post Code of Data Source");
42:     }
43:
44:     @Override
45:     public BIROFieldType getType() {
```

```
46:         return BIROFieldType.SITE_HEADER;
47:     }
48:     @Override
49:     public boolean isMandatory() {
50:         return false;
51:     }
52: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      SpecialistDiabetesNurses.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class SpecialistDiabetesNurses
37:     extends StaticBIROField<Integer> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public SpecialistDiabetesNurses() {
42:         super(Integer.class, "DS_DSN", "Specialist Diabetes Nurses", "Specialist diabetes nurses within data
source geographical area");
43:     }
44:
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_PROFILE;
48:      }
49: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      TechnicalContact.java
5:  * Authors:   Pietro Palladino, Valentina Baglioni
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class TechnicalContact
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public TechnicalContact() {
42:         super(String.class, "DS_T_CONTACT", "Technical Contact", "Technical representative from Data Source");
43:     }
44:
45:     @Override
```

```
46: public BIROFieldType getType() {  
47:     return BIROFieldType.SITE_HEADER;  
48: }  
49: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      TechnicalContactMailAddress.java
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30: package eu.biro.adaptor2.field.site;
31:
32: import eu.biro.adaptor2.field.BIROFieldType;
33: import eu.biro.adaptor2.field.StaticBIROField;
34:
35:
36: public final class TechnicalContactMailAddress
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public TechnicalContactMailAddress() {
42:         super(String.class, "DS_T_EMAIL", "Technical Contact Email Address", "Email address of Data Source
technical representative");
43:     }
44:
```

```
45:      @Override
46:      public BIROFieldType getType() {
47:          return BIROFieldType.SITE_HEADER;
48:      }
49: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
3:  *
4:  * File:      WebSiteAddress.java
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25:  *
26:  *
27:  * GPL Copyright, The BIRO Project
28:  *
29:  */
30:
31: package eu.biro.adaptor2.field.site;
32:
33: import eu.biro.adaptor2.field.BIROFieldType;
34: import eu.biro.adaptor2.field.StaticBIROField;
35:
36: public final class WebSiteAddress
37:     extends StaticBIROField<String> {
38:
39:     private static final long serialVersionUID = -1010765940024263615L;
40:
41:     public WebSiteAddress() {
42:         super(String.class, "DS_WEBSITE", "Web Site Address", "Internet address for Data Source");
43:     }
44:
45:     @Override
```

```
46:    public boolean isMandatory() {
47:        return false;
48:    }
49:
50:    @Override
51:    public BIROFieldType getType() {
52:        return BIROFieldType.SITE_HEADER;
53:    }
54: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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26:
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28:  *
29:  */
30: package eu.biro.adaptor2.unit;
31:
32: import org.plibrary.util.Logger;
33: import org.plibrary.util.UnicodeChars;
34:
35: public enum DefaultUnits
36:     implements MeasurementUnit {
37:
38:     CIGARETTES_PER_DAY("n/day", 1),
39:     CIGARETTES_PER_WEEK("n/week", 7),
40:     CIGARETTES_PER_MONTH("n/month", 30),
41:     PIPES_PER_DAY("pipe/day", 1 / 3d),
42:
43:     GR_PER_DAY("g/day", 1 / 7d),
44:     GR_PER_WEEK("g/week", 1),
45:     GR_PER_MONTH("g/month", 4),
```

```
46:    ALCOHOL_UNIT_PER_WEEK("unit/week", 10),
47:
48:    KILOGRAMS("kg", 1),
49:    GRAMS("g", 1000d),
50:
51:    METRE("M", 1),
52:    CENTIMETRE("cm", 100d),
53:
54:    PRESSURE_MM_HG("mmHg", 1),
55:
56:    PERCENT("%", 1),
57:
58:    CREAT_MICRO_MOL_L(UnicodeChars.NI + "mol/l", 1),
59:    CREAT_MG_DL("mg/dl", 0.01131),
60:
61:    CHOL_MMOL("mmol/l", 1),
62:    CHOL_MG_DL("mg/dl", 38.61),
63:
64:    INJECTIONS_PER_DAY("Injections/day", 1);
65:
66:    private final String description;
67:    private final double factor;
68:
69:    private DefaultUnits(String description, double factor) {
70:        this.description = description;
71:        this.factor = factor;
72:        if (factor == 0)
73:            Logger.error("Multiplying factor is 0 in " + name());
74:    }
75:
76:    public double convertToDefault(double d) {
77:        return d / factor;
78:    }
79:
80:    public double convertFromDefault(double d) {
81:        return d * factor;
82:    }
83:
84:    public double convertTo(MeasurementUnit u, double d) {
85:        return u.convertFromDefault(this.convertToDefault(d));
86:    }
87:
88:    public String getDescription() {
89:        return this.description;
90:    }
```

```
91:
92:     @Override
93:     public String toString() {
94:         return getDescription();
95:     }
96: }
```

```
1: /**
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4:  * File:      MeasurementUnit.java
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28:  *
29:  */
30: package eu.biro.adaptor2.unit;
31:
32: public interface MeasurementUnit
33:     extends java.io.Serializable {
34:
35:     String toString();
36:
37:     double convertFromDefault(double n);
38:
39:     double convertToDefault(double n);
40:
41:     double convertTo(MeasurementUnit u, double d);
42:
43: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:      AbstractValueMapping.java
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29:  */
30: package eu.biro.adaptor2.value;
31:
32: public abstract class AbstractValueMapping
33:     implements ValueMapping {
34:
35:     private static final long serialVersionUID = 946333361716936323L;
36:     private final String biroName;
37:     private final String description;
38:     private String dbName;
39:
40:     protected AbstractValueMapping(String biroName) {
41:         this(biroName, biroName);
42:     }
43:
44:     protected AbstractValueMapping(String biroName, String description) {
45:         this(biroName, description, biroName);
```

```
46:     }
47:
48:     protected AbstractValueMapping(String biroName, String description,
49:         String dbName) {
50:         this.biroName = biroName;
51:         this.description = description;
52:         this.dbName = dbName;
53:     }
54:
55:     public String getBIROValueName() {
56:         return biroName;
57:     }
58:
59:     public String getDescription() {
60:         return description;
61:     }
62:
63:     public String getDBValueName() {
64:         return dbName;
65:     }
66:
67:     public void setDBValueName(String v) {
68:         this.dbName = v;
69:     }
70:
71:     protected boolean isNull(String s) {
72:         return s == null || s.length() == 0;
73:     }
74:
75:     @Override
76:     public ValueMapping clone() {
77:         try {
78:             ValueMapping v = (ValueMapping) super.clone();
79:             return v;
80:         } catch (CloneNotSupportedException e) {
81:             throw new Error(e);
82:         }
83:     }
84: }
```

```
1: /**
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4:  * File:      ExpressionValueMapping.java
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29: **/
30: package eu.biro.adaptor2.value;
31:
32: import java.util.regex.Pattern;
33:
34: public abstract class ExpressionValueMapping
35:     extends AbstractValueMapping {
36:
37:     private static final long serialVersionUID = 4602962011324555304L;
38:
39:     public ExpressionValueMapping(String biroName, String description) {
40:         super(biroName, description);
41:     }
42:
43:     /**
44:      * Accepts all strings that are not null
45:      */
```

```
46: public static class AnyStringValueMapping
47:     extends ExpressionValueMapping {
48:
49:     private static final long serialVersionUID = -1339186147725432731L;
50:
51:     public AnyStringValueMapping(String biroName, String description) {
52:         super(biroName, description);
53:     }
54:
55:     @Override
56:     public void setDBValueName(String v) {
57:         throw new IllegalArgumentException("Cannot set value to AnyStringMapping");
58:     }
59:
60:     public boolean isValueAccepted(String value) {
61:         return !isNull(value);
62:     }
63: }
64:
65: /**
66:  * Accepts all strings that are null
67:  */
68: public static class NullValueMapping
69:     extends ExpressionValueMapping {
70:
71:     private static final long serialVersionUID = 2122094697966082695L;
72:
73:     public NullValueMapping(String biroName, String description) {
74:         super(biroName, description);
75:     }
76:
77:     @Override
78:     public void setDBValueName(String v) {
79:         throw new IllegalArgumentException("Cannot set value to NullValueMapping");
80:     }
81:
82:     public boolean isValueAccepted(String value) {
83:         return isNull(value);
84:     }
85: }
86:
87: /**
88:  * Accepts all strings that match a pattern
89:  */
90: public static class RegExpValueMapping
```

```
91:         extends ExpressionValueMapping {
92:
93:     private static final long serialVersionUID = -7296593283466267674L;
94:
95:     private Pattern pattern;
96:
97:     public RegExpValueMapping(String biroName, String description) {
98:         this(biroName, description, biroName);
99:     }
100:
101:     public RegExpValueMapping(String biroName, String description,
102:                               String pattern) {
103:         super(biroName, description);
104:         setDBValueName(pattern);
105:     }
106:
107:     @Override
108:     public void setDBValueName(String v) {
109:         super.setDBValueName(v);
110:         pattern = Pattern.compile(v);
111:     }
112:
113:     public boolean isValueAccepted(String value) {
114:         return pattern.matcher(value).matches();
115:     }
116: }
117:
118: /**
119:  * Accepts all strings<br>
120:  * Use this as last mapping to accept all values not in other mappings
121:  */
122: public static class AllValueMapping
123:     extends ExpressionValueMapping {
124:
125:     private static final long serialVersionUID = 2122094697966082695L;
126:
127:     public AllValueMapping(String biroName, String description) {
128:         super(biroName, description);
129:     }
130:
131:     @Override
132:     public void setDBValueName(String v) {
133:         throw new IllegalArgumentException("Cannot set value to AllValueMapping");
134:     }
135:
```

```
136:         public boolean isValueAccepted(String value) {
137:             return true;
138:         }
139:     }
140:     /**
141:     * Accepts ranges of values<br>
142:     * Use this as last mapping to accept all values in a specified range
143:     */
144:
145:     /*
146:     public static class RangeValueMapping extends ExpressionValueMapping {
147:
148:         private static final long serialVersionUID = 2122094697966082695L;
149:
150:         public RangeValueMapping(String biroName, String description, String pattern) {
151:             super(biroName, description);
152:             String s= "234";
153:             Integer.parseInt(s);
154:             Double.parseDouble(s);
155:             Float.parseFloat(s);
156:
157:         }
158:
159:         @Override
160:         public void setDBValueName(String v) {
161:             throw new IllegalArgumentException("Cannot set value to RangeValueMapping");
162:         }
163:
164:         public boolean isValueAccepted(String value) {
165:             return true;
166:         }
167:     }
168:
169:     */
170: }
```

```
1: /**
2:  * Project: BIRO-Project (Funded by European Commission 2005-2008)
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4:  * File:         SimpleValueMapping.java
5:  * Authors:      Pietro Palladino, Valentina Baglioni
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28:  *
29:  */
30: package eu.biro.adaptor2.value;
31:
32:
33: public class SimpleValueMapping
34:     extends AbstractValueMapping {
35:
36:     private static final long serialVersionUID = -1862842044120493015L;
37:
38:     public SimpleValueMapping(String biroName, String description, String dbName) {
39:         super(biroName, description, dbName);
40:     }
41:
42:     public SimpleValueMapping(String biroName, String dbName) {
43:         this(biroName, dbName, dbName);
44:     }
45: }
```

```
46:    public boolean isValueAccepted(String value) {  
47:        return isNull(value) ? isNull(getDBValueName()) : value.equalsIgnoreCase(getDBValueName());  
48:    }  
49: }
```

```
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29:  */
30:
31: package eu.biro.adaptor2.value;
32:
33: public interface ValueMapping
34:     extends Cloneable, java.io.Serializable {
35:
36:     String getBIROValueName();
37:
38:     String getDescription();
39:
40:     String getDBValueName();
41:
42:     void setDBValueName(String v);
43:
44:     boolean isValueAccepted(String value);
45: }
```

05/19/09
16:13:06

BIROAdaptor2/src/eu/biro/adaptor2/value/ValueMapping.java

2

```
46:     ValueMapping clone();  
47:  
48: }
```

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