

Connector.java

```
1 package webapplication.sqlconnector;
2
3 import java.sql.Connection;
10
11 public class Connector
12 {
13     /**
14      * To connect to a MySQL-server
15      *
16      * @param url must have the form
17      * "jdbc:mysql://<server>/<database>" for default port (3306)
18      * OR
19      * "jdbc:mysql://<server>:<port>/<database>" for specific port
20      * more formally "jdbc:subprotocol:subname"
21      *
22      * @throws ClassNotFoundException
23      * @throws IllegalAccessException
24      * @throws InstantiationException
25      * @throws SQLException
26      */
27
28     //System.getenv("myEmail");
29     //System.getenv("myPassword");
30
31     public static Connection connectToDatabase(String url, String username, String password)
32         throws InstantiationException, IllegalAccessException,
33             ClassNotFoundException, SQLException
34     {
35         // call the driver class' no argument constructor
36         Class.forName("com.mysql.jdbc.Driver").newInstance();
37
38         // get Connection-object via DriverManager
39         return (Connection) DriverManager.getConnection(url, username, password);
40     }
41
42     private static Connection conn;
43     private static Statement stm;
44
45     public Connector(String server, int port, String database,
46         String username, String password)
47         throws InstantiationException, IllegalAccessException,
48             ClassNotFoundException, SQLException
49     {
50
51         //When running this method, one must insert it in a try/catch
52         conn = connectToDatabase("jdbc:mysql://" + server + ":" + port + "/" + database,
53             username, password);
54         stm = conn.createStatement();
55     }
56
57
58     public Connector() throws InstantiationException, IllegalAccessException,
59         ClassNotFoundException, SQLException
60     {
61         this(Constant.server, Constant.port, Constant.database,
62             Constant.username, Constant.password);
63     }
64
65     public static ResultSet doQuery(String cmd) throws DALException
66     {
67         try { return stm.executeQuery(cmd); }
68         catch (SQLException e) { throw new DALException(e); }
```

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```
69     }
70
71     public static int doUpdate(String cmd) throws DALException
72     {
73         try { return stm.executeUpdate(cmd); }
74         catch (SQLException e) { throw new DALException(e); }
75     }
76
77 }
```