JDBC Realm – login page

<form action="j_security_check">
  Username: <input type="text" name="j_username"/>
  <br/>
  Password: <input type="password" name="j_password"/>
  <br/>
  <input type="submit" value="Login"/>
</form>
JDBC Realm – table in database

```sql
mysql> select * from user;
+------------+-----------+
| username   | password  |
+------------+-----------+
| jeff       | jeff      |
+------------+-----------+
1 row in set (0.12 sec)

mysql> select * from role;
+------------+-----------+
| username   | rolename  |
+------------+-----------+
| jeff       | TA        |
+------------+-----------+
1 row in set (0.08 sec)
```
<security-constraint>
  <web-resource-collection>
    <web-resource-name>Protected Area</web-resource-name>
    <description>Example Access Control</description>
    <url-pattern>/pages/protected/*</url-pattern>
  </web-resource-collection>
  <auth-constraint>
    <role-name>TA</role-name>
  </auth-constraint>
</security-constraint>

<login-config>
  <auth-method>FORM</auth-method>
  <realm-name>Basic Protected Area</realm-name>
  <form-login-config>
    <form-login-page>/pages/Login.html</form-login-page>
    <form-error-page>/pages/Logerr.jsp</form-error-page>
  </form-login-config>
</login-config>

<security-role>
  <description>Administrator</description>
  <role-name>TA</role-name>
</security-role>
<Realm
    className="org.apache.catalina.realm.JDBCRealm"
    debug="99"
    driverName="com.mysql.jdbc.Driver"
    connectionURL="jdbc:mysql://localhost/mydb"
    connectionName="root"
    digest="MD5" (should NOT be included in this demo)
    userTable="user"
    userNameCol="username"
    userCredCol="password"
    userRoleTable="role"
    roleNameCol="rolename" />

JDBC Realm –

• Remember to put JDBC driver under Tomcat 5.5\common\lib
NOTICE

• Accessing protected pages is the ONLY way to invoke the login page
  – If you try to access protected page A, login page will be popped out. After you login successfully, you will be directed to page A
  – However, if you go to login page directly, after you login, which page you are directed to? Tomcat doesn’t know! And there is no way to specify!