

Assignment No :- 5

#LoginAction.java

```
package com.login;

import javax.servlet.http.*;
import org.apache.struts.action.*;
import java.sql.*;

public class LoginAction extends Action {

    public ActionForward execute(ActionMapping mapping, ActionForm form,
        HttpServletRequest request, HttpServletResponse response) throws Exception {

        LoginForm loginForm = (LoginForm) form;
        String user = loginForm.getUsername();
        String pass = loginForm.getPassword();

        if (isValidUser(user, pass)) {
            return mapping.findForward("success");
        } else {
            return mapping.findForward("failure");
        }
    }

    public boolean isValidUser(String username, String password) {
        boolean valid = false;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/studentdb", "root", "raj@1415"
            );
            PreparedStatement ps = con.prepareStatement(
                "SELECT * FROM users WHERE username=? AND password=?"
            );
            ps.setString(1, username);
            ps.setString(2, password);
            ResultSet rs = ps.executeQuery();
            valid = rs.next();
            con.close();
        } catch (Exception e) {
            e.printStackTrace();
        }
        return valid;
    }
}
```

#LoginForm.java

```
package com.login;

import org.apache.struts.action.ActionForm;

public class LoginForm extends ActionForm {
    private String username;
    private String password;

    // Getter for username
    public String getUsername() {
        return username;
    }

    // Setter for username
    public void setUsername(String username) {
        this.username = username;
    }

    // Getter for password
    public String getPassword() {
        return password;
    }

    // Setter for password
    public void setPassword(String password) {
        this.password = password;
    }
}
```

#index.jsp

```
<%@ taglib uri="http://struts.apache.org/tags-html" prefix="html" %>
<html>
<body>
    <h2>Login Page</h2>
    <html:form action="/login">
        Username: <html:text property="username"/><br/>
        Password: <html:password property="password"/><br/>
        <html:submit value="Login"/>
    </html:form>
</body>
</html>
```

#failure.jsp

```
<h2>Invalid Credentials</h2>
```

#succes.jsp

```
<h2>Login Successful</h2>
```

#struts-config.xml

```
<struts-config>
  <form-beans>
    <form-bean name="loginForm" type="com.login.LoginForm"/>
  </form-beans>

  <action-mappings>
    <action path="/login" type="com.login.LoginAction" name="loginForm" scope="request"
validate="false">
      <forward name="success" path="/success.jsp"/>
      <forward name="failure" path="/failure.jsp"/>
    </action>
  </action-mappings>
</struts-config>
```

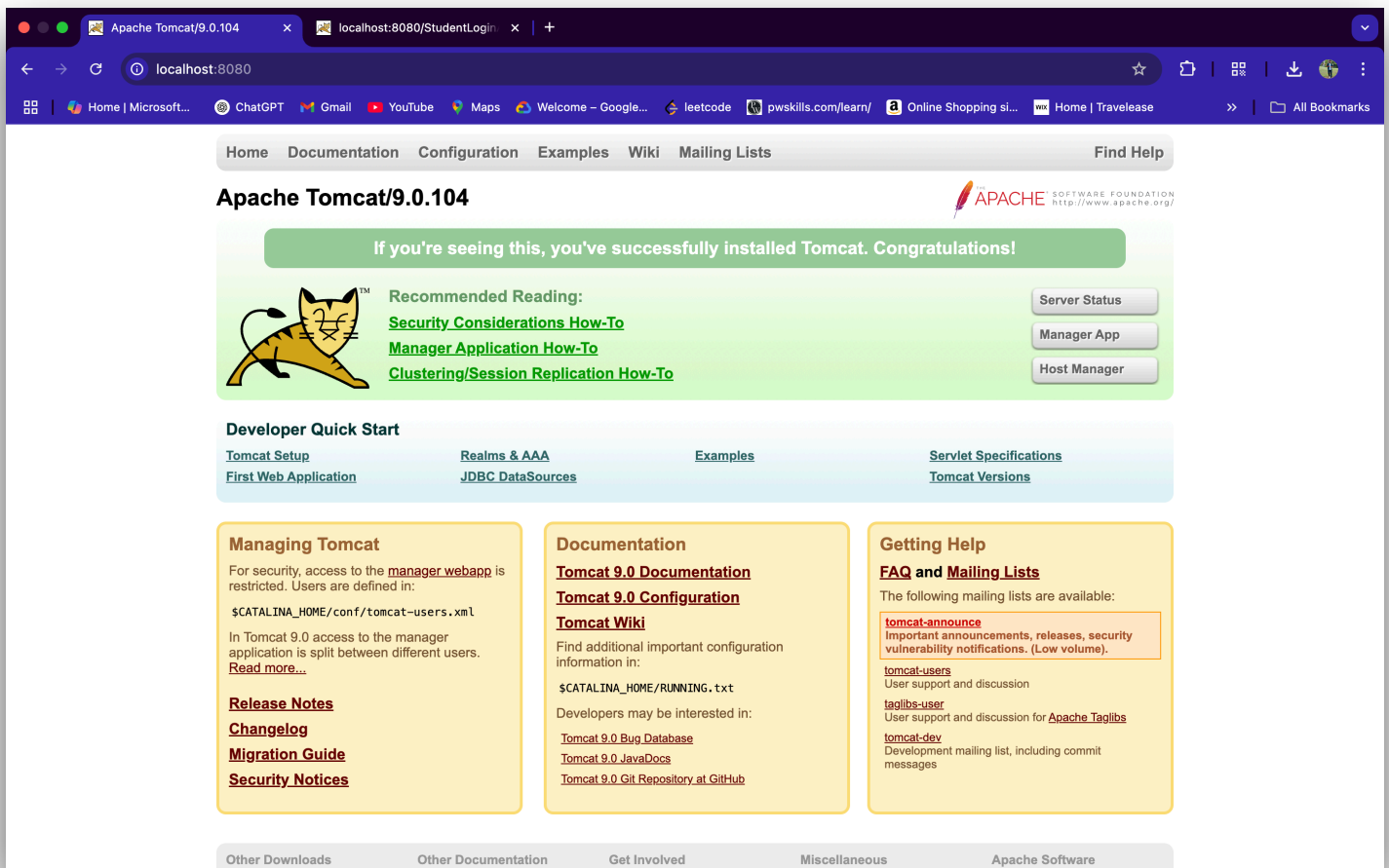
#web.xml

```
<web-app>
  <display-name>Struts Login App</display-name>

  <servlet>
    <servlet-name>action</servlet-name>
    <servlet-class>org.apache.struts.action.ActionServlet</servlet-class>
    <init-param>
      <param-name>config</param-name>
      <param-value>/WEB-INF/struts-config.xml</param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>action</servlet-name>
    <url-pattern>*.do</url-pattern>
  </servlet-mapping>
</web-app>
```

Output :-




The screenshot shows the Apache Tomcat/9.0.104 homepage. The browser's address bar displays 'localhost:8080'. The page features a navigation bar with links to Home, Documentation, Configuration, Examples, Wiki, and Mailing Lists, along with a 'Find Help' button. The main heading is 'Apache Tomcat/9.0.104'. Below this, a green banner states: 'If you're seeing this, you've successfully installed Tomcat. Congratulations!'. To the left of the 'Recommended Reading' section is the Tomcat logo. The 'Recommended Reading' section lists three links: 'Security Considerations How-To', 'Manager Application How-To', and 'Clustering/Session Replication How-To'. To the right of these links are three buttons: 'Server Status', 'Manager App', and 'Host Manager'. Below the 'Recommended Reading' section is the 'Developer Quick Start' section, which includes links to 'Tomcat Setup', 'First Web Application', 'Realms & AAA', 'JDBC DataSources', 'Examples', 'Servlet Specifications', and 'Tomcat Versions'. The page is divided into three main content areas: 'Managing Tomcat', 'Documentation', and 'Getting Help'. The 'Managing Tomcat' section provides information on security, user restrictions, and configuration files, and includes links to 'Release Notes', 'Changelog', 'Migration Guide', and 'Security Notices'. The 'Documentation' section provides links to 'Tomcat 9.0 Documentation', 'Tomcat 9.0 Configuration', 'Tomcat Wiki', and 'Tomcat 9.0 Bug Database'. The 'Getting Help' section provides links to 'FAQ and Mailing Lists' and lists several mailing lists: 'tomcat-announce', 'tomcat-users', 'taglibs-user', 'tomcat-dev', and 'tomcat-qa'. The footer of the page includes links to 'Other Downloads', 'Other Documentation', 'Get Involved', 'Miscellaneous', and 'Apache Software'.

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/9.0.104

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 **Recommended Reading:**

- [Security Considerations How-To](#)
- [Manager Application How-To](#)
- [Clustering/Session Replication How-To](#)

[Server Status](#)
[Manager App](#)
[Host Manager](#)

Developer Quick Start

- [Tomcat Setup](#)
- [First Web Application](#)
- [Realms & AAA](#)
- [JDBC DataSources](#)
- [Examples](#)
- [Servlet Specifications](#)
- [Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 9.0 access to the manager application is split between different users.
[Read more...](#)

[Release Notes](#)
[Changelog](#)
[Migration Guide](#)
[Security Notices](#)

Documentation

[Tomcat 9.0 Documentation](#)
[Tomcat 9.0 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

- [Tomcat 9.0 Bug Database](#)
- [Tomcat 9.0 JavaDocs](#)
- [Tomcat 9.0 Git Repository at GitHub](#)

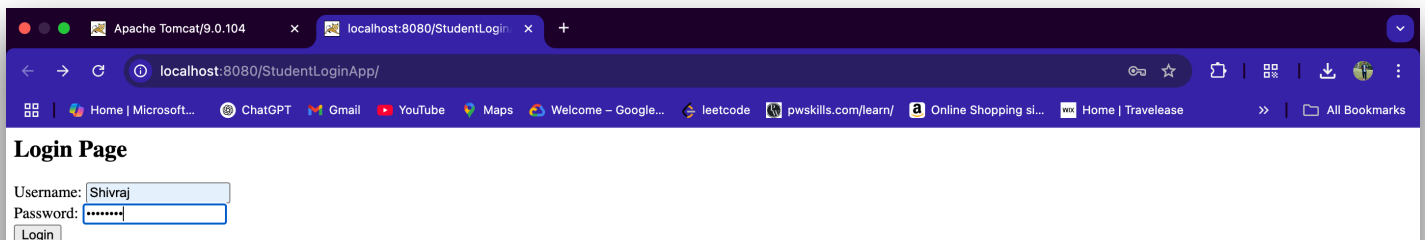
Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

- [tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).
- [tomcat-users](#)
User support and discussion
- [taglibs-user](#)
User support and discussion for [Apache Taglibs](#)
- [tomcat-dev](#)
Development mailing list, including commit messages

[Other Downloads](#) [Other Documentation](#) [Get Involved](#) [Miscellaneous](#) [Apache Software](#)



The screenshot shows the Login Page of the Apache Tomcat/9.0.104 application. The browser's address bar displays 'localhost:8080/StudentLoginApp/'. The page has a title 'Login Page'. Below the title, there are two input fields: 'Username:' with the value 'Shivraj' and 'Password:' with a masked password '*****'. Below these fields is a 'Login' button.

Login Page

Username:

Password:

