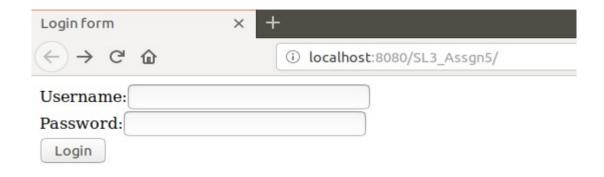
Name : Prajakta Keer

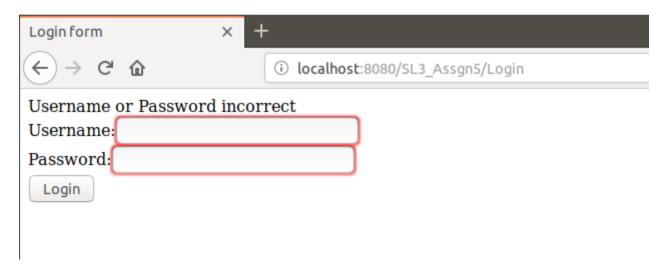
Class : TE 10 Roll No : 33231

Problem Statement:- Understand servlet life cycle, create login page and apply proper validations with appropriate messages using doGet()/ doPost() methods.

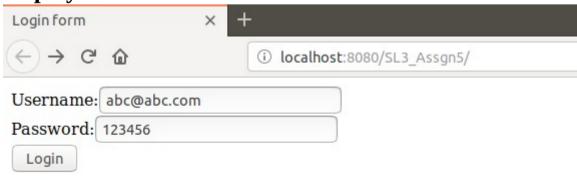
Design of login page:

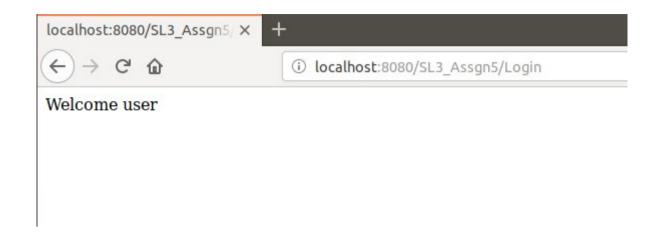


Validation for null input:

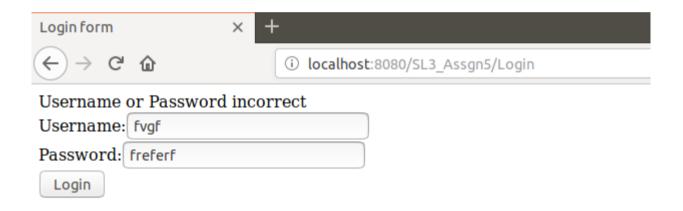


After inserting correct login credentials welcome message is displayed:





After inserting invalid credentials:



List of files:

- index.html
- web.xml
- Login.java
- validate.java
- Welcome.java

```
Code for index.html:
<html>
  <head>
    <title>Login form</title>
  </head>
  <body>
    <form method="post" action="Login">
    Username:<input type="text" name="uname" required/><br/>
>
    Password:<input type="text" name="pass" required/><br/>
    <input type="submit" value="Login" />
    </form>
  </body>
</html>
Code for web.xml :
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="4.0"</pre>
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd">
  <servlet>
    <servlet-name>Login</servlet-name>
    <servlet-class>Login</servlet-class>
  </servlet>
  <servlet>
    <servlet-name>Welcome</servlet-name>
    <servlet-class>Welcome</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Login</servlet-name>
    <url-pattern>/Login</url-pattern>
  </servlet-mapping>
```

```
<servlet-mapping>
     <servlet-name>Welcome</servlet-name>
     <url-pattern>/Welcome</url-pattern>
  </servlet-mapping>
</web-app>
Code for Login.java:
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;
public class Login extends HttpServlet {
  protected void doPost(HttpServletRequest request,
HttpServletResponse response)
       throws ServletException, IOException {
     response.setContentType("text/html;charset=UTF-8");
     String uname = request.getParameter("uname");
     String pass = request.getParameter("pass");
     PrintWriter out = response.getWriter();
     if(validate.checkUser(uname, pass)) {
         RequestDispatcher r =
request.getRequestDispatcher("Welcome");
         r.forward(request, response);
     }
     else
         out.println("Username or Password incorrect");
         RequestDispatcher r =
request.getRequestDispatcher("index.html");
         r.include(request, response);
     }
```

```
out.close();
  }
}
Code for validate.java:
//import java.io.PrintWriter;
import java.sql.*;
public class validate {
  public static boolean checkUser(String uname,String pass)
     boolean st =false;
     try {
       //loading drivers for mysql
       Class.forName("com.mysql.jdbc.Driver");
       //creating connection with the database
       Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/sl3_a
5?useSSL=false","root","password");
       PreparedStatement ps = con.prepareStatement("select *
from register where email=? and pass=?");
       ps.setString(1, uname);
       ps.setString(2, pass);
       ResultSet rs =ps.executeQuery();
       st = rs.next();
     catch(Exception e) {
       e.printStackTrace();
     return st;
}
```

```
Code for Welcome.java :
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.*;

public class Welcome extends HttpServlet {
    protected void doPost(HttpServletRequest request,
    HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        out.println("Welcome user");
    }
}
```

References:

- https://www.studytonight.com/servlet/login-systemexample-in-servlet.php#
- · SL3 Lab Manual
- Video Recording uploaded in MS Teams