**Assignment**

1. **Online quiz**

**//login.html**

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<meta name=*"viewport"* content=*"width=device-width , initial-scale=1.0"*>

<link rel=*"stylesheet"* href=*"https://www.w3schools.com/w3css/4/w3.css"*>

<link rel=*"stylesheet"* href=*"style12.css"*>

</head>

<body>

<form action=*'loginServlet1'* method=*'get'*>

<center>

<div class=*"login"*>

<img src=*"avatar.jpeg"*>

<h1> Login here</h1>

<input type=*"text"* name=*"username"* placeholder=*"enter username"*><br> </br>

<input type=*"text"* name=*"password"* placeholder=*"enter password"*><br> </br>

</center>

<center>

<input type=*"submit"* value=*"Log in"*><br>

</center>

<a href=*"forgot password.html"* text-align=*"left"*><b>Forgot password?</b></a><br></br>

<a href=*"register.html"*><b>Don't have an account? create new one.<b></a>

</div>

</form>

</body>

</html>

//LoginServlet.java

package com.hcl.servlet;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.SQLException;  
import java.sql.Statement;  
import javax.servlet.RequestDispatcher;  
import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
@WebServlet("/LoginServlet")  
public class LoginServlet extends HttpServlet {  
private static final long serialVersionUID = 1L;  
    public LoginServlet() {  
        super();  
        // TODO Auto-generated constructor stub  
    }  
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
// TODO Auto-generated method stub  
}  
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
// TODO Auto-generated method stub  
response.setContentType("text/html");  
PrintWriter out=response.getWriter();  
int regno=Integer.parseInt(request.getParameter("id"));  
String userpassword=request.getParameter("password");  
boolean flag=false;  
try {  
Class.forName("oracle.jdbc.driver.OracleDriver");  
java.sql.Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","system","1999");  
Statement st=con.createStatement();  
ResultSet rs=st.executeQuery("select \* from register");  
while(rs.next()){  
int id=rs.getInt(1);  
String password=rs.getString(2);  
if(id==regno && password.equals(userpassword)){  
out.print("Login successfull!!!!");  
if(rs.getInt(6)==0){  
out.print("<html><body><br>");  
out.println("<a href=\"QuizServlet?id="+regno+"\">Start Exam</a>");  
out.print("</body></html>");  
}  
else{  
out.print("Your Score is : "+rs.getInt(6));  
}  
flag=true;  
break;  
}  
}  
if(!flag){  
out.print("Invalid UserId");  
RequestDispatcher rd=request.getRequestDispatcher("/Login.html");  
rd.include(request, response);  
}  
rs.close();  
st.close();  
con.close();  
} catch (ClassNotFoundException | SQLException e) {  
// TODO Auto-generated catch block  
System.out.println(e.getMessage());  
e.printStackTrace();  
}  
}  
}

QuixServlet.java

package com.hcl.servlet;  
  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.Statement;  
import javax.servlet.ServletException;  
import javax.servlet.annotation.WebServlet;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
  
/\*\*  
 \* Servlet implementation class QuizServlet  
 \*/  
@WebServlet("/QuizServlet")  
public class QuizServlet extends HttpServlet {  
private static final long serialVersionUID = 1L;  
    static int qno = 1;  
    static String Id;  
static int answers[] = new int[3];  
  
         
    /\*\*  
     \* @see HttpServlet#HttpServlet()  
     \*/  
    public QuizServlet() {  
        super();  
        // TODO Auto-generated constructor stub  
         
    }  
  
/\*\*  
\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  
\*/  
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
// TODO Auto-generated method stub  
response.setContentType("text/html");  
PrintWriter out = response.getWriter();  
String name= request.getParameter("username");  
if(username != null) {  
Id = new String(id);  
}  
System.out.println("name :" + Id + "name :" + id);  
int option=0;  
if(request.getParameter("option")!=null)  
{  
option = Integer.parseInt(request.getParameter("option"));  
}  
else {  
option=-1;  
}  
if(option!=0 && qno<=3) {  
answers[qno-1] = option;  
}  
try {  
Class.forName("oracle.jdbc.driver.OracleDriver");  
Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","dbuser","1234");  
Statement st = con.createStatement();  
if(qno <= 2) {  
String sql = "select \* from quiz where qno = " + qno;  
ResultSet rs = st.executeQuery(sql);  
if(rs.next())  
{  
out.println("<html><body><form action=\"QuizServlet\">");  
out.println(rs.getInt(1)+"). "+rs.getString(2)+"<br>");  
out.println("<input type=\"radio\" name=\"option\" value=\"1\"> "+rs.getString(3)+"<br>");  
out.println("<input type=\"radio\" name=\"option\" value=\"2\"> "+rs.getString(4)+"<br>");  
out.println("<input type=\"radio\" name=\"option\" value=\"3\"> "+rs.getString(5)+"<br>");  
out.println("<input type=\"radio\" name=\"option\" value=\"4\"> "+rs.getString(6)+"<br><br>");  
out.println("<button>Next</button></form></body></html>");  
  
}  
}  
if(qno > 2) {  
int crct[] = new int[2];  
int j = 0, score=0;  
String sql = "select \* from quiz";  
ResultSet rs = st.executeQuery(sql);  
while(rs.next()) {  
crct[j] = rs.getInt(7);  
//System.out.println(crct[j]);  
j++;  
}  
  
for(j=0;j<2;j++) {  
if(answers[j+1]==crct[j]) {  
score++;  
}  
System.out.println(answers[j+1]);  
}  
//System.out.println(answers[j+1]);  
sql = "update register set marks="+score+" where userid="+Id;  
st.executeQuery(sql);  
System.out.println(sql);  
out.println("<html><body>You got "+score+" marks</body></html>");  
//score = 0;  
}  
qno++;  
}  
catch(Exception e) {  
System.out.println(e.getMessage());  
}  
  
}  
  
/\*\*  
\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  
\*/  
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
// TODO Auto-generated method stub  
}  
  
}

//register.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title> Registration </title>

<meta name=*"viewport"* content=*"width=device-width , initial-scale=1.0"*>

<link rel=*"stylesheet"* href=*"https://www.w3schools.com/w3css/4/w3.css"*>

<link rel=*"stylesheet"* href=*"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css"*>

<link rel=*"stylesheet"* type=*"text/css"* href=*"regstyle.css"*>

</head>

<body>

<header>

<div class=*"div5"*>

<div class=*"w3-container w3-mobile"* id=*"div2"*>

<h1> REGISTRATION </h1>

</div>

<center>

<div class=*"w3-container w3-mobile w3-padding-14 "* id=*"div3"*>

<form class=*"w3-container w3-mobile w3-border"* id=*"form1"* action=*"registerServlet"* method=*"get"*>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* class=*"div1"*>

<label class=*"w3-bar-item"*> Name : </label>

<input class=*"w3-input w3-border w3-bar-item w3-right w3-card"* name=*"name"* type=*"text"* placeholder=*"Enter your name"* required autofocus>

</div>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* class=*"div1"*>

<label class=*"w3-bar-item"*> Email: </label>

<input class=*"w3-input w3-border w3-bar-item w3-right w3-card"* name=*"email"* type=*"email"* placeholder=*"Enter your email"* required>

</div>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* class=*"div1"*>

<label class=*"w3-bar-item"*> Mobile: </label>

<input class=*"w3-input w3-border w3-bar-item w3-right w3-card"* name=*"mobile"* type=*"text"* placeholder=*"Enter your mobileno"* required>

</div>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* class=*"div1"*>

<label class=*"w3-bar-item"*>Gender : </label>

<label class=*"w3-bar-item w3-right"*>Female</label>

<input class=*"w3-radio w3-bar-item w3-right"* type=*"radio"* name=*"gender"* value=*"female"*>

<label class=*"w3-bar-item w3-right"*>Male</label>

<input class=*"w3-radio w3-bar-item w3-right"* type=*"radio"* name=*"gender"* value=*"Male"*>

</div>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* class=*"div1"*>

<label class=*"w3-bar-item"*> Password: </label>

<input class=*"w3-input w3-border w3-bar-item w3-right w3-card"* name=*"password"* type=*"password"* placeholder=*"Password"* required>

</div>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* class=*"div1"*>

<label class=*"w3-bar-item"*> Confirm Password: </label>

<input class=*"w3-input w3-border w3-bar-item w3-right w3-card"* name=*"confirmpassword"* type=*"password"* placeholder=*"Confirm Password"* required>

</div>

<div class=*"w3-container w3-mobile w3-bar w3-padding-16"* id=*"div3"*>

<button class=*"w3-button w3-border w3-ripple w3-round-large w3-green"*>Submit</button>

<button class=*"w3-button w3-border w3-ripple w3-round-large w3-green"*>Reset</button>

</div>

</form>

</div>

</center>

</div>

</body>

</html>

//register.servlet

package com.hcl.register;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class registerServlet

\*/

@WebServlet("/registerServlet")

public class registerServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public registerServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

//response.getWriter().append("Served at: ").append(request.getContextPath());

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String name=request.getParameter("name");

String email=request.getParameter("email");

String gender=request.getParameter("gender");

String phone=request.getParameter("mobile");

String password=request.getParameter("password");

String confirmpassword=request.getParameter("confirmpassword");

try{

//"Dyanamically" load the class

Class.forName("oracle.jdbc.driver.OracleDriver");

//create a connection object and connect to database

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521/XE","dbuser","1234");

PreparedStatement ps=con.prepareStatement("insert into register values(?,?,?,?,?,?)");

ps.setString(1,name);

ps.setString(2,email);

ps.setString(3,phone);

ps.setString(4,gender);

ps.setString(5,password);

ps.setString(6,confirmpassword);

int i=ps.executeUpdate();

System.out.println(ps.executeUpdate());

if(i>0) {

RequestDispatcher dispatcher = request.getRequestDispatcher("login.html");

dispatcher.forward(request, response);

out.print("you are successfully registered...!");

}

}catch(java.lang.ClassNotFoundException e) {

System.out.println("Oracle Driver not found");

}

catch(SQLException ex) {

System.out.println("SQLException:" + ex.getMessage());

}

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}

Output :









