**Q1. Solution:-**

**login.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Third Internal</title>

</head>

<body>

<form action=*"displayData.jsp"* method=*"post"*>

Enter Username :<input type=*"text"* name=*"username"*> <br>

Enter Password :<input type=*"password"* name=*"password"*><br>

<input type=*"submit"* value=*"Login"*>

</form>

</body>

</html>

**displayData.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import = *"java.io.\*, java.util.\*, java.sql.\*"*%>

<%@ page import = *"javax.servlet.http.\*,javax.servlet.\*"* %>

<%@ page import = *"java.io.IOException"* %>

<%@ page import = *"javax.servlet.ServletException"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>checking</title>

</head>

<body>

<%

out.println(request.getParameter("username"));

out.print(request.getParameter("password"));

%>

</body>

</html>

**Q2. Solution:-**

**Login.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Third Internal</title>

</head>

<body>

<form action=*"authenticate.jsp"* method=*"post"*>

Enter Username :<input type=*"text"* name=*"username"*> <br>

Enter Password :<input type=*"password"* name=*"password"*><br>

<input type=*"submit"* value=*"Login"*>

</form>

</body>

</html>

**authenticate.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import = *"java.io.\*, java.util.\*, java.sql.\*"*%>

<%@ page import = *"javax.servlet.http.\*,javax.servlet.\*"* %>

<%@ page import = *"java.io.IOException"* %>

<%@ page import = *"javax.servlet.ServletException"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>checking</title>

</head>

<body>

<%

String un=(String)request.getParameter("username");

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

**try** {

**if**(un.equals("123") && pw.equals("SJ"))

{

application.setAttribute("data", "Login Successfull");

response.sendRedirect("home.jsp");

}

**else**{

application.setAttribute("data", "Incorrect username or passwowrd");

response.sendRedirect("home.jsp");

}

}

**catch**(Exception e)

{

out.print(e);

}

%>

</body>

</html>

**home.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<h2>

<%

out.print(application.getAttribute("data"));

%>

</h2>

</body>

</html>

**Q3. Solution:-**

**Login.jsp:**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO- 8859-1"* pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form action=*"authenticate.jsp"* method=*"post"*>

<b>Username:</b><input type=*"text"* name=*"username\_from\_jsp"*> </br>

<b>Password:</b><input type=*"password"* name=*"password\_from\_jsp"*>

<input type=*"submit"*>

</form>

</body>

</html>

**authenticate.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*

%>

<%@ page import = *"java.io.\*, java.util.\*, java.sql.\*"*%>

<%@ page import = *"javax.servlet.http.\*,javax.servlet.\*"* %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1></h1>

<%

String user1=(String)request.getParameter("username\_from\_jsp");

String pass1=(String)request.getParameter("password\_from\_jsp");

**try** {

Class.forName("com.mysql.jdbc.Driver");

Connection con=DriverManager.getConnection("jdbc:mysql://mydb.cugsagu10nmy.ap-south-1.rds.amazonaws.com:3306/playzonedb","dds","mypassword");

Statement s= con.createStatement();

ResultSet rs=s.executeQuery("SELECT \* FROM login\_details where username='"+user1+"' and password='"+pass1+"'");

**if**(rs.next())

{

out.println("Login Successfull!");

}

**else**

out.print("<script>alert('Invalid credentials!')</script>");

}

**catch**(Exception e)

{

out.print(e);

}

%>

</body>

</html>

**Q4. Solution:-**

**fetchData.java**

<%@page import=*"java.sql.\*"*%>

<%

String id = request.getParameter("userId");

String driverName = "com.mysql.jdbc.Driver";

String connectionUrl = "jdbc:mysql://mydb.cf8knozvsvds.ap-south-1.rds.amazonaws.com/"; //enter endpoint

String dbName = "student"; // enter database name

String userId = "root"; //enter username

String password = "master123"; // enter password

**try** {

Class.forName(driverName);

} **catch** (ClassNotFoundException e) {

e.printStackTrace();

}

Connection connection = **null**;

Statement statement = **null**;

ResultSet resultSet = **null**;

%>

<html>

<head>

<title>Jsp Sample</title>

</head>

<body bgcolor=*yellow*>

<h2 align=*"center"*><font><strong>Retrieve data from database in jsp</strong></font></h2>

<table align=*"center"* cellpadding=*"5"* cellspacing=*"5"* border=*"1"*>

<tr>

</tr>

<tr>

<td><b>ID</b></td>

<td><b>USERNAME</b></td>

</tr>

<%

**try**{

connection = DriverManager.getConnection(connectionUrl+dbName, userId, password);

statement=connection.createStatement();

String sql ="SELECT \* FROM student.user\_details";

resultSet = statement.executeQuery(sql);

**while**(resultSet.next()){

%>

<tr bgcolor=*"#DEB887"*>

<td><%=resultSet.getInt("id")%></td>

<td><%=resultSet.getString("username") %></td>

</tr>

<%

}

connection.close();

} **catch** (Exception e) {

e.printStackTrace();

}

%>

</table>

</body>

</html>

**­**

**Q5. Solution:-**

**AWS Web Project:**

Step1: File -> new -> other -> AWS Java web project -> Artifact ID: webproject -> Finish.

Step2: Open package. Go to src -> main -> webapp (right click) -> new -> jsp file -> “file name.jsp”.

**Enter Same program solution 3**

Step3: Run as server -> tomcat 7 -> finish. OR Run as server -> AWS web server ->tomcat 7.

OR

Using Elastic beanstack.

(follow elastic beanstack creation steps).

**AWS Java Project:**

Step1: File -> new -> other -> AWS Java project -> -> project name: webproject, Artifact ID: webproject -> Finish.

Step2: Open package. Go to src/main/java (right click) -> new -> class -> “file name” -> finish.

**Enter simple java program**

Step3: Run as -> Java Application.

OR

Using Elastic beanstack.

(follow elastic beanstack creation steps).

1. <%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

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

</head>

<body>

<h1>*"HELLO WORLD"*</h1>

</body>

</html>