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| adminlogin.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <style>  **body** {  display: *flex*;  justify-content: *center*;  align-items: *center*;  height: *100vh*;  background-color: *#f2f2f2*;  font-family: *Arial, sans-serif*;  color: *#333*;  }  *.center-div* {  text-align: *center*;  background-color: *#fff*;  padding: *40px*;  border-radius: *5px*;  box-shadow: *0 2px 10px rgba(0, 0, 0, 0.1)*;  }  **h1** {  color: *#333*;  font-size: *32px*;  margin-bottom: *30px*;  }  **h2** {  color: *#555*;  font-size: *24px*;  margin-bottom: *20px*;  }  **label** {  display: *block*;  margin-bottom: *10px*;  font-weight: *bold*;  color: *#666*;  font-size: *18px*;  }  **input**[type="text"]**,**  **input**[type="password"] {  width: *100%*;  padding: *10px*;  font-size: *16px*;  border-radius: *4px*;  border: *1px solid #ccc*;  margin-bottom: *20px*;  }  **input**[type="submit"] {  padding: *10px 20px*;  font-size: *16px*;  background-color: *#4CAF50*;  color: *#fff*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  transition: *background-color 0.3s*;  }  **input**[type="submit"]*:hover* {  background-color: *#45a049*;  }  **h3** {  margin-top: *20px*;  }  **a** {  color: *#666*;  text-decoration: *none*;  transition: *color 0.3s*;  }  **a***:hover* {  color: *#333*;  }  </style>  </head>  <body>  <divclass=*"center-div"*>  <h1>Welcome Administration</h1>  <h2>Login as Admin:</h2>  <formaction=*"adminlogin"*method=*"POST"*>  <labelfor=*"adminUsername"*>Username:</label>  <inputtype=*"text"*id=*"adminUsername"*name=*"adminUsername"*required><br><br>  <labelfor=*"adminPassword"*>Password:</label>  <inputtype=*"password"*id=*"adminPassword"*name=*"adminPassword"*required><br><br>  <inputtype=*"submit"*value=*"Login as Admin"*>  </form>  <h3><ahref=*'home.jsp'*>Back to user login</a></h3>  </div>  </body>  </html> |
| adminworkstation.java |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Quiz Navigation</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  }  *.container* {  max-width: *400px*;  margin: *0 auto*;  padding: *20px*;  }  *.btn* {  display: *block*;  width: *100%*;  padding: *10px 20px*;  margin-bottom: *10px*;  text-align: *center*;  text-decoration: *none*;  background-color: *#4CAF50*;  color: *#fff*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  }  *.btn:hover* {  background-color: *#45a049*;  }  </style>  </head>  <body>  <divclass=*"container"*>  <h1>Quiz Navigation</h1>  <ahref=*"all-quiz.jsp"*class=*"btn"*>All Quiz</a>  <ahref=*"new-quiz.jsp"*class=*"btn"*>Enter New Quiz</a>  <ahref=*"adminlogin.jsp"*class=*"btn"*>Logout</a>  </div>  </body>  </html> |
| all-quiz.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Table List</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *20px*;  }  **h1** {  text-align: *center*;  }  **table** {  width: *100%*;  border-collapse: *collapse*;  }  **th,td** {  padding: *10px*;  text-align: *left*;  border-bottom: *1px solid #ddd*;  }  **th** {  background-color: *#f2f2f2*;  }  *.delete-button***,**  *.redirect-button* {  padding: *5px 10px*;  font-size: *14px*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  }  *.delete-button* {  background-color: *#f44336*;  color: *white*;  }  *.delete-button:hover* {  background-color: *#d32f2f*;  }  *.redirect-button* {  background-color: *#4CAF50*;  color: *white*;  margin-left: *10px*;  }  *.redirect-button:hover* {  background-color: *#45a049*;  }  *.back-button* {  padding: *5px 10px*;  font-size: *14px*;  background-color: *#333*;  color: *white*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  text-decoration: *none*;  }  *.back-button:hover* {  background-color: *#555*;  }  </style>  </head>  <body>  <ahref=*"adminworkstation.jsp"*class=*"back-button"*>Back</a>  <%@pageimport=*"java.sql.Connection"*%>  <%@pageimport=*"java.sql.Statement"*%>  <%@pageimport=*"java.sql.ResultSet"*%>  <%@pageimport=*"java.sql.SQLException"*%>  <%@pageimport=*"com.dbconnection.DBUtil"*%>  <h1>Quiz List</h1>  <table>  <tr>  <th>Quiz Name</th>  <th>Action</th>  </tr>  <%  Connection conn = **null**;  Statement stmt = **null**;  ResultSet rs = **null**;  **try** {  conn = DBUtil.getConnection();  stmt = conn.createStatement();  rs = stmt.executeQuery("SHOW TABLES");  **while** (rs.next()) {  String tableName = rs.getString(1);  %>  <tr>  <td><%= tableName %></td>  <td>  <formaction=*"deleteTable"*method=*"post"*style="display: *inline-block*;">  <inputtype=*"hidden"*name=*"tableName"*value=*"*<%= tableName %>*"*>  <buttonclass=*"delete-button"*type=*"submit"*>Delete</button>  </form>  <formaction=*"question-input.jsp"*method=*"post"*style="display: *inline-block*;">  <inputtype=*"hidden"*name=*"tableName"*value=*"*<%= tableName %>*"*>  <buttonclass=*"redirect-button"*type=*"submit"*>Add Questions</button>  </form>  <formaction=*"show-all-questions.jsp"*method=*"post"*style="display: *inline-block*;">  <inputtype=*"hidden"*name=*"tableName"*value=*"*<%= tableName %>*"*>  <buttonclass=*"redirect-button"*type=*"submit"*>Show Questions</button>  </form>  </td>  </tr>  <%  }  } **catch** (SQLException e) {  e.printStackTrace();  response.sendRedirect("adminworkstation.jsp");  } **finally** {  DBUtil.closeResultSet(rs);  DBUtil.closeStatement(stmt);  DBUtil.closeConnection(conn);  }  %>  </table>  </body>  </html> |
| home.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <style>  **body** {  display: *flex*;  justify-content: *center*;  align-items: *center*;  height: *100vh*;  background-color: *#f2f2f2*;  font-family: *Arial, sans-serif*;  color: *#333*;  }  *.center-div* {  text-align: *center*;  background-color: *#333*;  padding: *40px*;  border-radius: *5px*;  box-shadow: *0 2px 10px rgba(0, 0, 0, 0.1)*;  }  **h1** {  color: *#f2f2f2*;  font-size: *32px*;  margin-bottom: *30px*;  }  **h2** {  color: *#ccc*;  font-size: *24px*;  margin-bottom: *20px*;  }  **label** {  display: *block*;  margin-bottom: *10px*;  font-weight: *bold*;  color: *#ccc*;  font-size: *18px*;  }  **input**[type="text"]**,**  **input**[type="password"] {  width: *100%*;  padding: *10px*;  font-size: *16px*;  border-radius: *4px*;  border: *1px solid #999*;  margin-bottom: *20px*;  background-color: *#f2f2f2*;  color: *#333*;  }  **input**[type="submit"] {  padding: *10px 20px*;  font-size: *16px*;  background-color: *#4CAF50*;  color: *#f2f2f2*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  transition: *background-color 0.3s*;  }  **input**[type="submit"]*:hover* {  background-color: *#45a049*;  }  **h3** {  margin-top: *20px*;  }  **a** {  color: *#ccc*;  text-decoration: *none*;  transition: *color 0.3s*;  }  **a***:hover* {  color: *#f2f2f2*;  }  </style>  </head>  <body>  <divclass=*"center-div"*>  <h1>Welcome to Online Quiz</h1>  <h2>Login as User:</h2>  <formaction=*"userlogin"*method=*"POST"*>  <labelfor=*"Username"*>Username:</label>  <inputtype=*"text"*id=*"Username"*name=*"Username"*required><br><br>  <labelfor=*"Password"*>Password:</label>  <inputtype=*"password"*id=*"Password"*name=*"Password"*required><br><br>  <inputtype=*"submit"*value=*"Login"*>  </form>  <h3><ahref=*'adminlogin.jsp'*>Login As an Admin</a></h3>  </div>  </body>  </html> |

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| new-quiz.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Create Table</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *20px*;  }  **h1** {  text-align: *center*;  }  **form** {  margin-top: *20px*;  }  **label** {  display: *block*;  margin-bottom: *5px*;  font-weight: *bold*;  }  **input**[type="text"] {  width: *100%*;  padding: *10px*;  font-size: *16px*;  border-radius: *4px*;  border: *1px solid #ccc*;  }  **input**[type="submit"] {  padding: *10px 20px*;  font-size: *16px*;  background-color: *#4CAF50*;  color: *white*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  }  **input**[type="submit"]*:hover* {  background-color: *#45a049*;  }  *.back-button* {  padding: *5px 10px*;  font-size: *14px*;  background-color: *#333*;  color: *white*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  text-decoration: *none*;  }  *.back-button:hover* {  background-color: *#555*;  }  </style>  </head>  <body>  <ahref=*"adminworkstation.jsp"*class=*"back-button"*>Back</a>  <h1>Create quiz</h1>  <formaction=*"createquiz"*method=*"post"*>  <labelfor=*"tableName"*>Quiz Name:</label>  <inputtype=*"text"*id=*"tableName"*name=*"tableName"*required>  <br>  <inputtype=*"submit"*value=*"Create"*>  </form>  </body>  </html> |

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| question-input.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=UTF-8"*pageEncoding=*"UTF-8"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Question Input</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *20px*;  background-color: *#f2f2f2*;  }    **h1** {  color: *#333*;  margin-bottom: *20px*;  }    **label** {  display: *block*;  margin-bottom: *5px*;  font-weight: *bold*;  }    **input**[type="text"]**,**  **input**[type="radio"] {  margin-bottom: *10px*;  padding: *8px*;  border: *1px solid #ccc*;  border-radius: *4px*;  }    **input**[type="submit"] {  padding: *10px 20px*;  font-size: *16px*;  background-color: *#4CAF50*;  color: *white*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  }    **input**[type="submit"]*:hover* {  background-color: *#45a049*;  }    **a** {  color: *#333*;  text-decoration: *none*;  font-size: *14px*;  }  **a***:hover* {  text-decoration: *underline*;  }  </style>  </head>  <body>  <ahref=*"all-quiz.jsp"*>That's all. Go back</a>  <%String tableName=request.getParameter("tableName"); %>  <h1>Question Input for <%out.println(tableName); %></h1>  <formaction=*"SaveQuestion"*method=*"post"*>  <labelfor=*"question"*>Question:</label>  <inputtype=*"text"*id=*"question"*name=*"question"*required>  <br>  <labelfor=*"optionA"*>Option A:</label>  <inputtype=*"text"*id=*"optionA"*name=*"optionA"*required>  <br>  <labelfor=*"optionB"*>Option B:</label>  <inputtype=*"text"*id=*"optionB"*name=*"optionB"*required>  <br>  <labelfor=*"optionC"*>Option C:</label>  <inputtype=*"text"*id=*"optionC"*name=*"optionC"*required>  <br>  <labelfor=*"optionD"*>Option D:</label>  <inputtype=*"text"*id=*"optionD"*name=*"optionD"*required>  <br>  <labelfor=*"correctOption"*>Correct Option:</label>  <inputtype=*"radio"*id=*"optionA"*name=*"correctOption"*value=*"A"*required>  <labelfor=*"optionA"*>A</label>  <inputtype=*"radio"*id=*"optionB"*name=*"correctOption"*value=*"B"*required>  <labelfor=*"optionB"*>B</label>  <inputtype=*"radio"*id=*"optionC"*name=*"correctOption"*value=*"C"*required>  <labelfor=*"optionC"*>C</label>  <inputtype=*"radio"*id=*"optionD"*name=*"correctOption"*value=*"D"*required>  <labelfor=*"optionD"*>D</label>  <inputtype=*"hidden"*name=*"tableName"*value=*"*<%= tableName %>*"*>  <br>  <inputtype=*"submit"*value=*"Save & Next"*>  </form>  </body>  </html> |

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| result.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Quiz Result</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *0*;  padding: *0*;  display: *flex*;  justify-content: *center*;  align-items: *center*;  min-height: *100vh*;  background-color: *#f2f2f2*;  }    *.container* {  text-align: *center*;  background-color: *#ffffff*;  padding: *40px*;  border-radius: *5px*;  box-shadow: *0 2px 10px rgba(0, 0, 0, 0.1)*;  }    **h1** {  color: *#333*;  margin-bottom: *20px*;  }    **p** {  margin-bottom: *20px*;  color: *#666*;  font-size: *18px*;  }    *.score* {  font-size: *24px*;  font-weight: *bold*;  color: *#333*;  }    *.logout-button* {  display: *inline-block*;  padding: *10px 20px*;  font-size: *16px*;  background-color: *#4CAF50*;  color: *white*;  text-decoration: *none*;  border-radius: *4px*;  transition: *background-color 0.3s ease*;  }    *.logout-button:hover* {  background-color: *#45a049*;  }  </style>  </head>  <body>  <divclass=*"container"*>  <h1>Quiz Result</h1>  <%**int** score = (**int**) request.getAttribute("score"); %>  <pclass=*"score"*>Your score: <%= score %>%</p>  <ahref=*"userworkstation.jsp"*class=*"logout-button"*>Finish</a>  </div>  </body>  </html> |

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| show-all-questions.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=UTF-8"*pageEncoding=*"UTF-8"*%>  <%@pageimport=*"java.sql.\*"*%>  <%@pageimport=*"com.dbconnection.DBUtil"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Quiz Questions</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *20px*;  background-color: *#f2f2f2*;  }    **h1** {  color: *#333*;  margin-bottom: *20px*;  }    **table** {  width: *100%*;  border-collapse: *collapse*;  background-color: *#fff*;  border: *1px solid #ddd*;  box-shadow: *0 0 10px rgba(0, 0, 0, 0.1)*;  }    **th,td** {  padding: *10px*;  text-align: *left*;  border-bottom: *1px solid #ddd*;  }    **th** {  background-color: *#f2f2f2*;  color: *#333*;  }    **a** {  color: *#333*;  text-decoration: *none*;  font-size: *14px*;  }    **a***:hover* {  text-decoration: *underline*;  }  </style>  </head>  <body>  <ahref=*"all-quiz.jsp"*>Back</a>  <h1>Quiz Questions</h1>  <table>  <tr>  <th>Question of <%String table = request.getParameter("tableName");out.print(table); %></th>  <th>Option A</th>  <th>Option B</th>  <th>Option C</th>  <th>Option D</th>  <th>Correct Option</th>  </tr>  <%  Connection conn = **null**;  Statement stmt = **null**;  ResultSet rs = **null**;  **try** {  conn = DBUtil.getConnection();  stmt = conn.createStatement();  String query = "SELECT \* FROM " + table;  rs = stmt.executeQuery(query);    **while** (rs.next()) {  String question = rs.getString("question");  String optionA = rs.getString("optiona");  String optionB = rs.getString("optionb");  String optionC = rs.getString("optionc");  String optionD = rs.getString("optiond");  String correctOption =rs.getString("correctOption");  %>  <tr>  <td><%= question %></td>  <td><%= optionA %></td>  <td><%= optionB %></td>  <td><%= optionC %></td>  <td><%= optionD %></td>  <td><%= correctOption %></td>  </tr>  <%  }  } **catch** (SQLException e) {  e.printStackTrace();  } **finally** {  // Close the ResultSet and Statement (Connection will be closed in the servlet)  **try** {  **if** (rs != **null**) {  rs.close();  }  **if** (stmt != **null**) {  stmt.close();  }  } **catch** (SQLException e) {  e.printStackTrace();  }  }  %>  </table>  </body>  </html> |

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| userworkstation.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Select Quiz</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *20px*;  background-color: *#f2f2f2*;  }    **h1** {  color: *#333*;  margin-bottom: *20px*;  }    **form** {  display: *flex*;  flex-direction: *column*;  align-items: *center*;  background-color: *#fff*;  padding: *20px*;  border-radius: *8px*;  box-shadow: *0 2px 4px rgba(0, 0, 0, 0.1)*;  }    **label** {  margin-bottom: *10px*;  font-weight: *bold*;  }    **select** {  padding: *5px*;  margin-bottom: *20px*;  width: *200px*;  }    *.logout-button* {  position: *absolute*;  top: *10px*;  right: *10px*;  padding: *10px 20px*;  font-size: *16px*;  background-color: *#f44336*;  color: *white*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  text-decoration: *none*;  transition: *background-color 0.3s ease*;  }    *.logout-button:hover* {  background-color: *#d32f2f*;  }    *.logout-button:active* {  background-color: *#b71c1c*;  }  </style>  </head>  <body>  <%@pageimport=*"java.sql.Connection"*%>  <%@pageimport=*"java.sql.Statement"*%>  <%@pageimport=*"java.sql.ResultSet"*%>  <%@pageimport=*"java.sql.SQLException"*%>  <%@pageimport=*"com.dbconnection.DBUtil"*%>  <h1>Select Quiz</h1>  <formaction=*"view-quiz.jsp"*method=*"post"*>  <labelfor=*"tableSelect"*>Select a Topic:</label>  <selectname=*"tableSelect"*id=*"tableSelect"*>  <%  Connection conn = **null**;  Statement stmt = **null**;  ResultSet rs = **null**;  **try** {  conn = DBUtil.getConnection();  stmt = conn.createStatement();  rs = stmt.executeQuery("SHOW TABLES");  **while** (rs.next()) {  String tableName = rs.getString(1);  %>  <optionvalue=*"*<%= tableName %>*"*><%= tableName %></option>  <%  }  } **catch** (SQLException e) {  e.printStackTrace();  } **finally** {  DBUtil.closeResultSet(rs);  DBUtil.closeStatement(stmt);  DBUtil.closeConnection(conn);  }  %>  </select>  <buttontype=*"submit"*>Start Quiz</button>  </form>  <ahref=*"home.jsp"*class=*"logout-button"*>Logout</a>  </body>  </html> |

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| view-quiz.jsp |
| <%@pagelanguage=*"java"*contentType=*"text/html; charset=ISO-8859-1"*  pageEncoding=*"ISO-8859-1"*%>  <!DOCTYPEhtml>  <html>  <head>  <title>Select Quiz</title>  <style>  **body** {  font-family: *Arial, sans-serif*;  margin: *20px*;  background-color: *#f2f2f2*;  }    **h1** {  color: *#333*;  margin-bottom: *20px*;  }    **form** {  display: *flex*;  flex-direction: *column*;  align-items: *center*;  background-color: *#fff*;  padding: *20px*;  border-radius: *8px*;  box-shadow: *0 2px 4px rgba(0, 0, 0, 0.1)*;  }    **label** {  margin-bottom: *10px*;  font-weight: *bold*;  }    **select** {  padding: *5px*;  margin-bottom: *20px*;  width: *200px*;  }    *.logout-button* {  position: *absolute*;  top: *10px*;  right: *10px*;  padding: *10px 20px*;  font-size: *16px*;  background-color: *#f44336*;  color: *white*;  border: *none*;  border-radius: *4px*;  cursor: *pointer*;  text-decoration: *none*;  transition: *background-color 0.3s ease*;  }    *.logout-button:hover* {  background-color: *#d32f2f*;  }    *.logout-button:active* {  background-color: *#b71c1c*;  }  </style>  </head>  <body>  <%@pageimport=*"java.sql.Connection"*%>  <%@pageimport=*"java.sql.Statement"*%>  <%@pageimport=*"java.sql.ResultSet"*%>  <%@pageimport=*"java.sql.SQLException"*%>  <%@pageimport=*"com.dbconnection.DBUtil"*%>  <h1>Select Quiz</h1>  <formaction=*"view-quiz.jsp"*method=*"post"*>  <labelfor=*"tableSelect"*>Select a Topic:</label>  <selectname=*"tableSelect"*id=*"tableSelect"*>  <%  Connection conn = **null**;  Statement stmt = **null**;  ResultSet rs = **null**;  **try** {  conn = DBUtil.getConnection();  stmt = conn.createStatement();  rs = stmt.executeQuery("SHOW TABLES");  **while** (rs.next()) {  String tableName = rs.getString(1);  %>  <optionvalue=*"*<%= tableName %>*"*><%= tableName %></option>  <%  }  } **catch** (SQLException e) {  e.printStackTrace();  } **finally** {  DBUtil.closeResultSet(rs);  DBUtil.closeStatement(stmt);  DBUtil.closeConnection(conn);  }  %>  </select>  <buttontype=*"submit"*>Start Quiz</button>  </form>  <ahref=*"home.jsp"*class=*"logout-button"*>Logout</a>  </body>  </html> |

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| web.xml |
| <?xmlversion=*"1.0"*encoding=*"UTF-8"*?>  <web-appxmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*xmlns=*"https://jakarta.ee/xml/ns/jakartaee"*xmlns:web=*"http://xmlns.jcp.org/xml/ns/javaee"*xsi:schemaLocation=*"https://jakarta.ee/xml/ns/jakartaee* [*https://jakarta.ee/xml/ns/jakartaee/web-app\_5\_0.xsd*](https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd)[*http://xmlns.jcp.org/xml/ns/javaee*](http://xmlns.jcp.org/xml/ns/javaee)[*http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd*](http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd)*"*id=*"WebApp\_ID"*version=*"5.0"*>  <display-name>OnlineQuiz</display-name>  <welcome-file-list>  <welcome-file>home.html</welcome-file>  <welcome-file>home.jsp</welcome-file>  <welcome-file>home.htm</welcome-file>  <welcome-file>default.html</welcome-file>  <welcome-file>default.jsp</welcome-file>  <welcome-file>default.htm</welcome-file>  </welcome-file-list>  <servlet>  <description></description>  <display-name>adminlogin</display-name>  <servlet-name>adminlogin</servlet-name>  <servlet-class>adminlogin</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>adminlogin</servlet-name>  <url-pattern>/adminlogin</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>userlogin</display-name>  <servlet-name>userlogin</servlet-name>  <servlet-class>userlogin</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>userlogin</servlet-name>  <url-pattern>/userlogin</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>deleteTable</display-name>  <servlet-name>deleteTable</servlet-name>  <servlet-class>deleteTable</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>deleteTable</servlet-name>  <url-pattern>/deleteTable</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>createquiz</display-name>  <servlet-name>createquiz</servlet-name>  <servlet-class>createquiz</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>createquiz</servlet-name>  <url-pattern>/createquiz</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>SaveQuestion</display-name>  <servlet-name>SaveQuestion</servlet-name>  <servlet-class>SaveQuestion</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>SaveQuestion</servlet-name>  <url-pattern>/SaveQuestion</url-pattern>  </servlet-mapping>  <servlet>  <description></description>  <display-name>SubmitQuizServlet</display-name>  <servlet-name>SubmitQuizServlet</servlet-name>  <servlet-class>SubmitQuizServlet</servlet-class>  </servlet>  <servlet-mapping>  <servlet-name>SubmitQuizServlet</servlet-name>  <url-pattern>/SubmitQuizServlet</url-pattern>  </servlet-mapping>  </web-app> |

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| Adminlogin.java(servlet) |
| import java.io.IOException;  import java.io.PrintWriter;  import jakarta.servlet.RequestDispatcher;  import jakarta.servlet.ServletException;  import jakarta.servlet.http.HttpServlet;  import jakarta.servlet.http.HttpServletRequest;  import jakarta.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class adminlogin  \*/  public class adminlogin extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public adminlogin() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)  \*/  protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  String username = request.getParameter("adminUsername");  String password = request.getParameter("adminPassword");  response.setContentType("text/html");  PrintWriter out = response.getWriter();  try  {  if(username.equalsIgnoreCase("Admin")&&password.equalsIgnoreCase("admin123"))  {  response.sendRedirect("adminworkstation.jsp");  }  else {  out.print("<h3>Incorrect Username/Password, try again.</h3>");  RequestDispatcher dispatcher = request.getRequestDispatcher("adminlogin.jsp");  dispatcher.include(request, response);  }  }  catch(Exception ex)  {  ex.printStackTrace();  }  }  /\*\*  \* @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());  }  /\*\*  \* @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);  }  } |

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| Createquiz.java(servlet) |
| import jakarta.servlet.RequestDispatcher;  import jakarta.servlet.ServletException;  import jakarta.servlet.http.HttpServlet;  import jakarta.servlet.http.HttpServletRequest;  import jakarta.servlet.http.HttpServletResponse;  import java.io.IOException;  import java.sql.Connection;  import java.sql.PreparedStatement;  import java.sql.SQLException;  import com.dbconnection.DBUtil;  /\*\*  \* Servlet implementation class createquiz  \*/  public class createquiz extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public createquiz() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)  \*/  protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  String tableName = request.getParameter("tableName");  try (Connection conn = DBUtil.getConnection()) {  String createTableQuery = "CREATE TABLE " + tableName + " (" +  "id INT AUTO\_INCREMENT PRIMARY KEY," +  "question VARCHAR(255) NOT NULL," +  "optionA VARCHAR(255) NOT NULL," +  "optionB VARCHAR(255) NOT NULL," +  "optionC VARCHAR(255) NOT NULL," +  "optionD VARCHAR(255) NOT NULL," +  "correctOption VARCHAR(1) NOT NULL" +  ")";  PreparedStatement preparedStatement = conn.prepareStatement(createTableQuery);  preparedStatement.executeUpdate();  response.getWriter().println("Table created successfully!");  RequestDispatcher dispatcher = request.getRequestDispatcher("question-input.jsp");  dispatcher.include(request, response);  } catch (SQLException e) {  e.printStackTrace();  response.getWriter().println("Error creating table: " + e.getMessage());  RequestDispatcher dispatcher = request.getRequestDispatcher("new-quiz.jsp");  dispatcher.include(request, response);  }  }  /\*\*  \* @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());  }  /\*\*  \* @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);  }  } |

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| deleteTable.java(servlet) |
| import jakarta.servlet.ServletException;  import jakarta.servlet.http.HttpServlet;  import jakarta.servlet.http.HttpServletRequest;  import jakarta.servlet.http.HttpServletResponse;  import java.io.IOException;  import java.sql.\*;  import com.dbconnection.DBUtil;  /\*\*  \* Servlet implementation class deleteTable  \*/  public class deleteTable extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public deleteTable() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)  \*/  protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  String tableName = request.getParameter("tableName");  Connection conn = null;  Statement stmt = null;  try {  conn = DBUtil.getConnection();  stmt = conn.createStatement();  stmt.executeUpdate("DROP TABLE " + tableName);  response.sendRedirect("all-quiz.jsp"); // Redirect to the same page to show the updated list of tables  } catch (SQLException e) {  e.printStackTrace();  response.getWriter().println("Error deleting table: " + e.getMessage());  } finally {  DBUtil.closeStatement(stmt);  DBUtil.closeConnection(conn);  }  }  /\*\*  \* @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());  }  /\*\*  \* @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);  }  } |

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| SaveQuestion.java(servlet) |
| import jakarta.servlet.ServletException;  import jakarta.servlet.http.HttpServlet;  import jakarta.servlet.http.HttpServletRequest;  import jakarta.servlet.http.HttpServletResponse;  import java.io.IOException;  import java.sql.\*;  import com.dbconnection.DBUtil;  /\*\*  \* Servlet implementation class SaveQuestion  \*/  public class SaveQuestion extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public SaveQuestion() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)  \*/  protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  String tableName=request.getParameter("tableName");  String question = request.getParameter("question");  String optionA = request.getParameter("optionA");  String optionB = request.getParameter("optionB");  String optionC = request.getParameter("optionC");  String optionD = request.getParameter("optionD");  String correctOption = request.getParameter("correctOption");  try (Connection conn = DBUtil.getConnection()) {  String insertQuestionQuery = "INSERT INTO "+tableName+" (question, optionA, optionB, optionC, optionD, correctOption) VALUES (?, ?, ?, ?, ?, ?)";  PreparedStatement preparedStatement = conn.prepareStatement(insertQuestionQuery);  preparedStatement.setString(1, question);  preparedStatement.setString(2, optionA);  preparedStatement.setString(3, optionB);  preparedStatement.setString(4, optionC);  preparedStatement.setString(5, optionD);  preparedStatement.setString(6, correctOption);  preparedStatement.executeUpdate();  // request.setAttribute("tableName", tableName);  request.getRequestDispatcher("question-input.jsp").forward(request, response); // Redirect to the same page for next question input  } catch (SQLException e) {  e.printStackTrace();  response.getWriter().println("Error saving question: " + e.getMessage());  }  }  } |

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| SubmitQuizServlet.java(servlet) |
| import jakarta.servlet.ServletException;  import jakarta.servlet.http.HttpServlet;  import jakarta.servlet.http.HttpServletRequest;  import jakarta.servlet.http.HttpServletResponse;  import java.io.IOException;  import java.sql.\*;  import java.util.Enumeration;  import java.util.List;  import com.dbconnection.DBUtil;  import java.util.ArrayList;  public class SubmitQuizServlet extends HttpServlet {  private static final long serialVersionUID = 1L;  protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  String tableName = request.getParameter("tableName");  Enumeration<String> parameterNames = request.getParameterNames();  List<Integer> questionIds = new ArrayList<>();  List<String> userAnswers = new ArrayList<>();  while (parameterNames.hasMoreElements()) {  String paramName = parameterNames.nextElement();  if (paramName.startsWith("answer")) {  String questionId = paramName.substring(paramName.indexOf("r") + 1);  int questionIdInt = Integer.parseInt(questionId);  String userAnswer = request.getParameter(paramName);  questionIds.add(questionIdInt);  userAnswers.add(userAnswer);  }  }  int totalQuestions = questionIds.size();  int correctAnswers = 0;  for (int i = 0; i < questionIds.size(); i++) {  int questionId = questionIds.get(i);  String userAnswer = userAnswers.get(i);  String correctAnswer = getCorrectAnswer(tableName, questionId);  // Check if the user's answer is correct  if (userAnswer.equalsIgnoreCase(correctAnswer)) {    correctAnswers++;  }  }  // Calculate the score percentage  int score = (int) ((correctAnswers / (double) totalQuestions) \* 100);  // Display the result on the result page  request.setAttribute("score", score);  request.getRequestDispatcher("result.jsp").forward(request, response);  }  private String getCorrectAnswer(String tableName, int questionId) {  Connection conn = null;  PreparedStatement stmt = null;  ResultSet rs = null;  String correctAnswer = null;  try {  conn = DBUtil.getConnection();  String query = "SELECT correctOption FROM " + tableName + " WHERE id = ?";  stmt = conn.prepareStatement(query);  stmt.setInt(1, questionId);  rs = stmt.executeQuery();  if (rs.next()) {  correctAnswer = rs.getString("correctOption");  }  } catch (SQLException e) {  e.printStackTrace();  } finally {  DBUtil.closeResultSet(rs);  DBUtil.closeStatement(stmt);  DBUtil.closeConnection(conn);  }  return correctAnswer;  }  } |

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| Userlogin.java(servlet) |
| import java.io.IOException;  import java.io.PrintWriter;  import jakarta.servlet.RequestDispatcher;  import jakarta.servlet.ServletException;  import jakarta.servlet.http.HttpServlet;  import jakarta.servlet.http.HttpServletRequest;  import jakarta.servlet.http.HttpServletResponse;  /\*\*  \* Servlet implementation class adminlogin  \*/  public class userlogin extends HttpServlet {  private static final long serialVersionUID = 1L;  /\*\*  \* @see HttpServlet#HttpServlet()  \*/  public userlogin() {  super();  // TODO Auto-generated constructor stub  }  /\*\*  \* @see HttpServlet#service(HttpServletRequest request, HttpServletResponse response)  \*/  protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  // TODO Auto-generated method stub  String username = request.getParameter("Username");  String password = request.getParameter("Password");  response.setContentType("text/html");  PrintWriter out = response.getWriter();  try  {  if(username.equalsIgnoreCase("Student")&&password.equalsIgnoreCase("Student123"))  {  response.sendRedirect("userworkstation.jsp");  }  else {  out.print("<h3>Incorrect Username/Password, try again.</h3>");  RequestDispatcher dispatcher = request.getRequestDispatcher("home.jsp");  dispatcher.include(request, response);  }  }  catch(Exception ex)  {  ex.printStackTrace();  }  }  /\*\*  \* @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());  }  /\*\*  \* @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);  }  } |

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| Com.dbconnection(package)/DBUtil.java(class) |
| package com.dbconnection;  import java.sql.Connection;  import java.sql.DriverManager;  import java.sql.ResultSet;  import java.sql.SQLException;  import java.sql.Statement;  public class DBUtil {  private static final String URL = "jdbc:mysql://localhost:3306/Quizes";  private static final String USERNAME = "root";  private static final String PASSWORD = "Marinabeach@5864";  public static Connection getConnection() throws SQLException {  try {  Class.forName("com.mysql.jdbc.Driver");  return DriverManager.getConnection(URL, USERNAME, PASSWORD);  } catch (ClassNotFoundException e) {  e.printStackTrace();  }  return null;  }  public static void closeResultSet(ResultSet rs) {  try {  if (rs != null) {  rs.close();  }  } catch (SQLException e) {  e.printStackTrace();  }  }  public static void closeStatement(Statement stmt) {  try {  if (stmt != null) {  stmt.close();  }  } catch (SQLException e) {  e.printStackTrace();  }  }  public static void closeConnection(Connection conn) {  try {  if (conn != null) {  conn.close();  }  } catch (SQLException e) {  e.printStackTrace();  }  }  } |

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| MySQL query |
| Create database Quizes;  Use Quizes; |