# ONLINE QUIZ PROJECT

OverView : This Application provides users an Experience of Signing up into it and answering questions , and they can receive instant feedback on their Performance.

## Features :

1.User Registration and Login : Secure user authentication system to save progress and personal statistic.

2.Timer : This helps in improving the time management skills.

3.3. Instant feedback : This helps in letting the users know their performance.

## Technical Specifications :

=> Front-End : HTML and JSP for the responsive and interactive user interface.
=> Back-End : Servlets for the server-side operations.
=> Database : Sql for the efficient data storage and retrieval.

## Registartion page:

## Reg2.html :

```html
<!DOCTYPE html>
<html>
<head>
<title>Registration Form</title>
</head>
<body>
    <form action="store.jsp" method="post">
    <table align="center">
        <tr>
            <th colspan="2" style="padding:20px;">Registration Page</th>
        </tr>
        <tr>
            <td> Name :
            </td>
            <td>
                <input type="text" name="rname">
            </td>
        </tr>
        <tr>
            <td> Email :
            </td>
            <td>
                <input type="email" name="remail">
            </td>
        <tr>
```

```html
            <td>
            Gender :
            </td>
            <td>
            <input type="radio" name="rgender" value="Male">Male
            <input type="radio" name="rgender"value="Female">FeMale
            <input type="radio" name="rgender" value="Others">Others
            </td>
        </tr>
        <tr>
            <td> Enter
            Password :
            </td>
            <td>
                    <input type="password" name="renterPass">
            </td>
        </tr>
        <tr>
            <td> Confirm
            Password :
            </td>
            <td>
                    <input type="password" name="rconfirmPass">
            </td>
        </tr>
        <tr>
            <td>
            </td>
            <td style="padding:10px; ">
                <input type="reset" value="Clean">
                    &nbsp<input type="submit" value="Signup">
            </td>
        </tr>

    </table>
   </form>
   <h5 align = "center" > Or</h5>
   <form action="Get.html" method="post" >
   <table align="center">
     <tr>
     <td>
     </td>
    <td style="padding:1px;">
         <input type="submit" value="Login">
     </td>
     </tr>
   </table>
   </form>
</body>
</html>
```

**Signup Done Successfully!**

**Registration Page**

| | |
|---|---|
| Name : | [_____] |
| Email : | [_____] |
| Gender : | ○ Male ○ FeMale ○ Others |
| Enter Password : | [_____] |
| Confirm Password : | [_____] |

Clean  Signup

Or

Login

---

**Check the Email Once Again!**

**Registration Page**

| | |
|---|---|
| Name : | [_____] |
| Email : | [_____] |
| Gender : | ○ Male ○ FeMale ○ Others |
| Enter Password : | [_____] |
| Confirm Password : | [_____] |

Clean  Signup

Or

Login

Get.html :

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<form action="Login" method="post">
    <table align="center">
```

```html
      <tr>
      <td>
 Email :
    </td>
      <td>
      <input type="email" name="remail">
</td>
<tr>
<tr>
<td> Enter Password :
 </td>
<td>
  <input type="password" name="renterPass">
 </td>
</tr>
<tr>
<td>
</td>
<td style="padding:20px; ">
<input type="submit" value="Start">
</td>
</tr>
</table>
</form>
</body>
  </html>
```
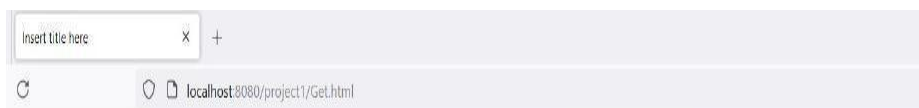
**Sorry UserName or Password Error!**

Email :                 [                    ]
Enter Password :        [                    ]

                        [ Start ]

Insert title here    X    +

↻        ○  🗋  localhost:8080/project1/Get.html

                    Email :        [          ]
                    Enter Password : [          ]

                         [ Start ]

# Store.jsp:-

```jsp
<%@ page import="java.sql.*"%>
<%@ page import="javax.servlet.RequestDispatcher" %>
<%@ page import="java.io.PrintWriter" %>
<%
String name=request.getParameter("rname");
String email=request.getParameter("remail");
String gender=request.getParameter("rgender");
String pass=request.getParameter("renterPass");
String pass1=request.getParameter("rconfirmPass");
response.setContentType("text/html");

PrintWriter out1 = response.getWriter();
if(pass.equals(pass1)){ try{
    Connection
conn=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","database");
    PreparedStatement    ps=conn.prepareStatement("insert    into
registrationvalues(?,?,?,?)");                    ps.setString(1,name);
ps.setString(2,email); ps.setString(3,gender); ps.setString(4,pass);
int x=ps.executeUpdate();

    //response.setContentType("text/html");
    //PrintWriter out1 = response.getWriter();
    if(x!=0){ out1.print("<html><h3><center>Signup
    Done
Successfully!</h3></html>");
        RequestDispatcher
rd=request.getRequestDispatcher("/Reg2.html"); rd.include(request,
response);
    }else{ out1.print("Something went
        Wrong....");
        RequestDispatcher rd=request.getRequestDispatcher("/Reg
2.html");            rd.include(request,
    response);
    }
} catch(Exception e){
        //out.print("Check the Email Once again");
        out1.print("<html><h3><center>Check the Email Once
Again!</h3></html>");
    RequestDispatcher rd=request.getRequestDispatcher("/Reg2.html");
    rd.include(request, response);
    }
} else{ out1.print("<html><h3><center>Password not matching</h3></html>");
RequestDispatcher rd=request.getRequestDispatcher("/Reg2.html");
  rd.include(request,
response);
}
%>
```

```
NAME
--------------------------------------------------
EMAIL                                              GENDER      PASSWORD
--------------------------------------------------  ----------  ----------
ramu
ramu8@gmail.com                                    Male        ramu

kiran
kirchoudary9@gmail.com                             Male        kiran

divya
div67@gmail.com                                    Female      divya

NAME
--------------------------------------------------
EMAIL                                              GENDER      PASSWORD
--------------------------------------------------  ----------  ----------
pranitha
prani8@gmail.com                                   Female      prani

nithya
nithya56@gmail.com                                 Female      nithya


8 rows selected.
```

## LoginServlet :

```java
package webdemo;

import java.io.IOException; import java.io.PrintWriter;
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;

    private static final String[][] questions = {
        {"Who found java programming?","Guido van Rossum","James
Gosling","Dennis Ritchie","Bjarne Stroustrup","2"},
        {"What part is used to compile, debug and execute java
programs?","JRE","JIT","JDK","JVM","3"},
        {"Which of the following is the super class of all java
classes?","Array List","Abstract class","Object class","String","3"},
{"Which permits the removal of elements from a collection?",
"Enumeration", "Iterator", "Both", "None of above", "2"},
        {"The comparator() interface contains the method?",
"compareWith", "compareTo()", "compare()", "comparison()", "3"},
        {"What is the life cycle method of a servlet is called when the
servlet is first loaded into
memory?","init()","doGet()","doPost()","service","1"},
```

```java
        {"Which keyword is used for Debugging in
java?","Abstract","Insert","Assert","Boolean","3"},
        {"Parent class of all java classes
is?","Java.lang.system","Java.lang.object","java.lang.class","java.lang.r
eflect.object","2"},
        {"Which of the following is NOT a java primitive
type?","short","long","long double","boolean","3"},      {"Which section
provides for the implementation of the private server side of the
system?","Server","Server
Reader","Socket","ServerSocket","4"},

        // Add more questions here
    };

    private int score = 0;
    private int currentQuestion = 0; // changed to start at 0

    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException
{        response.setContentType("text/html");        PrintWriter out
= response.getWriter();
        String username = request.getParameter("username");

        out.println("<html><head><title>Quiz</title>");
out.println("<style>"); out.println("body { font-family: Arial, sans-
        serif; }");
out.println(".timer { position: absolute; top: 50px; left: 500px; fontsize:
20px; color: blue; font-weight: bold; background-color: yellow; padding:
5px; border: 2px solid blue; border-radius: 5px; }"); out.println("h1
{ text-align: center; }");
        // out.println("form { text-align: center; }");
        out.println("</style>");
        out.println("<script type='text/javascript'>");
out.println("var timeLeft = 15;"); // 30 seconds timer
out.println("function countdown() {"); out.println("
if (timeLeft == 0) {");out.println("
document.getElementById('quizForm').submit();"); out.println("     } else
{"); out.println("      document.getElementById('timer').innerHTML =
timeLeft + ' seconds remaining';");     out.println(" timeLeft--;");
out.println("     setTimeout(countdown, 1000);"); out.println("
  }"); out.println("}"); out.println("window.onload = function()
{ countdown(); };"); out.println("</script>"); out.println("</head><body>");

        if (currentQuestion < questions.length) {
            String[] question = questions[currentQuestion];
out.println("<div class='timer' id='timer'>15 seconds remaining</div>");
// Timer display out.println("<h1>Mind
Quiz</h1>"); out.println("<h2>Hi!!Welcome To Our Quiz</h2>");
out.println("<form id='quizForm' method='post'>");
out.println("<h3>" + question[0] + "</h3>");             for
(int i = 1; i < question.length - 1; i++) {
            out.println("<input type='radio' name='answer' value='" +
i + "'>" + question[i] + "<br>");
```

```java
            }
            out.println("<input type='hidden' name='action'
value='next'>"); out.println("<input type='submit'
            value='Next'>");
            // if(currentQuestion>0&&) {
            // out.println("<input type='submit' name='action'
value='Back'>");          //}
            if(currentQuestion>9) {
            out.println("<input type='submit' name='action'
value='Submit'>"); }
            out.println("</form>");
        } else {
            out.println("<h1>Quiz Result</h1>");
out.println("<h2>Your score : " + score + "/" + questions.length +
"</h2>"); }


out.println("</body></html>");          }          protected          void
        doPost(HttpServletRequest request, HttpServletResponse response)

    throws ServletException, IOException {

        String userAnswer = request.getParameter("answer");
        String action =request.getParameter("action");
if("next".equals(action)) { if (userAnswer != null &&
userAnswer.equals(questions[currentQuestion]
[questions[currentQuestion].length - 1]))
{            score++;
        }
        currentQuestion ++;
        }
        else if("Back".equals(action)) {
        currentQuestion--;
if(currentQuestion<0)
{        currentQuestion=0;
        }
        } doGet(request, response);
    }
}
```

## Login.java :

```java
package webdemo; import java.io.IOException;
import java.io.PrintWriter; import
java.sql.Connection; import java.sql.DriverManager;
import java.sql.PreparedStatement; import
java.sql.ResultSet;

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("/Login") public class Login
extends HttpServlet {
  private static final long serialVersionUID = 1L;
protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws
ServletException, IOException {
        String email = request.getParameter("remail");
        String password = request.getParameter("renterPass");

        Connection conn = null;
        PreparedStatement pst = null;
        ResultSet rs = null;

        try {
            // Load the MySQL driver
            Class.forName("oracle.jdbc.driver.OracleDriver");
            // Connect to the database
            conn =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"system", "database");

            // Prepare the SQL statement
            pst = conn.prepareStatement("SELECT * FROM registration WHERE
email = ? AND password = ?"); pst.setString(1, email);
pst.setString(2, password);

            // Execute the query
rs = pst.executeQuery(); response.setContentType("text/html");
PrintWriter out = response.getWriter();


            /* if (rs.next()) {
                // Login successful, redirect to the welcome servlet
                response.sendRedirect("LoginServlet");
            } else {
                // Login failed, show an error message
                PrintWriter out = response.getWriter();
response.sendRedirect("Get.html");
out.println("Login failed. Invalid username or
password");
```

```java
            }*/
if(rs.next()) {
            RequestDispatcher
rd=request.getRequestDispatcher("LoginServlet"); rd.forward(request,
response);
        } else{ out.print("<html><h3><center>Sorry UserName or
Password
Error!</h3></html>");
            RequestDispatcher
rd=request.getRequestDispatcher("/Get.html"); rd.include(request, response);
            // response.sendRedirect("Get.html");
        } }
        catch (Exception e) {
            e.printStackTrace();
        } finally { try { if (rs != null) rs.close();
if (pst != null) pst.close(); if (conn != null)
conn.close();
            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    }
}
```

## Index.html :

```html
<!DOCTYPE html>
<html>
<head>
    <title>Quiz Submission</title>
</head>
<body>
    <h3> < center >Score Details</h3>
    <form action="Result" method="post" align="center">
        <label for="email">Email:</label>
        <input type="text" id="email" name="email" required><br>
        <br><label for="score">Score:</label>
        <input type="number" id="score" name="score" required><br>
        <br><input type="submit" value="Submit Score">
    </form>
</body>
</html>
```

Email: [                    ]

Score: [              ⬍]

[Submit Score]

# Score recorded successfully!

Email: [gaya@gmail.com]

Score: [8                    ⬍]

[Submit Score]

## Result.java:

```java
package webdemo;

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.ServletException; import javax.servlet.annotation.WebServlet;
  import javax.servlet.http.HttpServlet; import
  javax.servlet.http.HttpServletRequest; import
  javax.servlet.http.HttpServletResponse;
  @WebServlet("/Result") public class
  Result extends HttpServlet
  {      private static final long serialVersionUID =
  1L; // Database connection parameters private String jdbcURL =
      "jdbc:oracle:thin:@localhost:1521:xe"; private String
  jdbcUsername = "system"; private String jdbcPassword =
  "database";

      protected void doPost(HttpServletRequest request, HttpServletResponse
  response)
              throws ServletException, IOException
  {          response.setContentType("text/html");
  PrintWriter out = response.getWriter();

          String email = request.getParameter("email");
          int score = Integer.parseInt(request.getParameter("score"));

          Connection conn = null;
          PreparedStatement stmt = null;

          try {
              // Load JDBC driver
              Class.forName("oracle.jdbc.driver.OracleDriver");

              // Establish connection
  conn =
  DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
  "system","database");
              // Prepare SQL statement
```

```java
            String sql = "INSERT INTO quiz_score (email, score) VALUES
(?, ?)"; stmt = conn.prepareStatement(sql); stmt.setString(1,
email);stmt.setInt(2, score);

            // Execute the insert
int rows = stmt.executeUpdate();

            if (rows > 0) {
                out.println("<h1>Score recorded successfully!</h1>");
            } else {
                out.println("<h1>Error recording
            score.</h1>"); }
        } catch (ClassNotFoundException e) {
            e.printStackTrace();
            out.println("<h1>Database driver not found.</h1>");
        } catch (SQLException e) {
            e.printStackTrace();
            out.println("<h1>Database error.</h1>");
        } finally
{           try {
                if (stmt != null) stmt.close();
if (conn != null) conn.close();
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
```

## Hi!!Welcome To Our Quiz

**Who found java programming?**

○ Guido van Rossum
○ James Gosling
○ Dennis Ritchie
○ Bjarne Stroustrup

Next

# Quiz Result

## Your score : 6/10

```
EMAIL                                          SCORE
---------------------------------------------- ----------
ammu@gmail.com0                                        10
raji@gmail.com                                          8
ramu@gmail.com                                          8
ramu@gmail.com                                          6
```