**Online Quiz Portal Using Servlets, JSP, and JDBC**

**Source code**

**Index.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**>Index</**title**>

</**head**>

<**body**>

<**h1** align=*'center'*>Welcome to Online Quiz Portal</**h1**>

<**h2** align=*'center'*>Admin Login</**h2**><**a** href=*"admin.jsp"*><**h3** align=*'center'*>Admin Login</**h3**></**a**>

<**h2** align=*'center'*>User Login</**h2**><**a** href=*"User.jsp"*><**h3** align=*'center'*>User Login</**h3**></**a**>

</**body**>

</**html**>

**AddQuestion.jsp**

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

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

<%@**page** import=*"com.example.\*"* %>

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Add Question</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Add New Question</**h1**><**br**>

<**form** action=*""*>

Enter Question : <**input** type=*"text"* maxlength=*"200"* name=*"question"* required><**br**><**br**>

Enter option A : <**input** type=*"text"* maxlength=*"200"* name=*"option1"* required><**br**><**br**>

Enter option B : <**input** type=*"text"* maxlength=*"200"* name=*"option2"* required><**br**><**br**>

Enter option C : <**input** type=*"text"* maxlength=*"200"* name=*"option3"* required><**br**><**br**>

Enter option D : <**input** type=*"text"* maxlength=*"200"* name=*"option4"* required><**br**><**br**>

Enter answer option : <**select** name=*"answer"*>

<**option**>A</**option**>

<**option**>B</**option**>

<**option**>C</**option**>

<**option**>D</**option**>

</**select**><**br**><**br**>

<**input** type=*"submit"* value=*"Add Question"* name=*"addnew"*>

</**form**>

<%

if(request.getParameter("addnew")!=null){

QuestionsOperations qo=new QuestionsOperations();

Questions q=new Questions();

q.question=request.getParameter("question");

q.option1=request.getParameter("option1");

q.option2=request.getParameter("option2");

q.option3=request.getParameter("option3");

q.option4=request.getParameter("option4");

q.answer=request.getParameter("answer");

qo.insert(q);

out.print("<h3 align='left'>Question added Successfully</h3>");

}

%>

</**body**>

</**html**>

**AddUser.jsp**

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

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

<%@**page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Add User</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Add New User</**h1**>

<**form** action=*""*>

UserName : <**input** type=*"text"* name=*"name"* required><**br**><**br**>

EmailId : <**input** type=*"email"* name=*"email"* required><**br**><**br**>

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

<**input** type=*"submit"* name=*"signup"* value=*"add user"*>

</**form**>

<%

if(request.getParameter("signup")!=null){

User user=new User();

UserMain usermain=new UserMain();

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

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

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

try{

usermain.insertUser(user);

out.print("<h3>User Details Added Successfully</h3>");

}

catch(Exception e){

out.print("<h3>User EmailId Already Exists</h3>");

}

}

%>

</**body**>

</**html**>

**admin.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**>Admin</**title**>

</**head**>

<**body**>

<**h1** align=*'center'*>Welcome Back Admin!</**h1**>

<**form** action=*""* >

EmailId :<**input** type=*"email"* name=*"email"* required><**br**><**br**>

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

<**input** type=*"submit"* value=*"login"* name=*"admin"* >

</**form**>

<%

System.out.println("Entering admin login---");

System.out.println(request.getParameter("email"));

System.out.println(request.getParameter("password"));

System.out.println(request.getParameter("admin"));

if(request.getParameter("admin")!=null){

if(request.getParameter("email").equals("admin@gmail.com") && request.getParameter("password").equals("admin")){

response.sendRedirect("adminPage.jsp");

}

else{

out.print("<h3 align='left'>Wrong credentials! Please try again..</h3>");

}

}

%>

</**body**>

</**html**>

**adminPage.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**>Admin Page</**title**>

</**head**>

<**body**>

<**h1**>Welcome Admin!</**h1**>

<**form** action=*""*>

<**input** type=*"submit"* value=*"logout"* name=*"signout"*><**br**><**br**>

</**form**>

<%

if(request.getParameter("signout")!=null){

response.sendRedirect("admin.jsp");

}

%>

<**table** border=*"10"* cellspacing=*"30"*>

<**tr**><**th**>User </**th**><**th**>Quiz </**th**><**th**>Question </**th**></**tr**>

<**tr**><**td**><**a** href=*"AddUser.jsp"*>Add New user</**a**></**td**><**td**><**a** href=*"CreateQuiz.jsp"*>Create New Quiz</**a**></**td**><**td**><**a** href=*"AddQuestion.jsp"*>Add New Question</**a**></**td**></**tr**>

<**tr**><**td**><**a** href=*"UsersDetails.jsp"*>User Details</**a**></**td**><**td**><**a** href=*"Quiz.jsp"*>Quiz Details</**a**></**td**><**td**><**a** href=*"QuestionsList.jsp"*>Question Details</**a**></**td**></**tr**>

</**table**>

</**body**>

</**html**>

**CreateQuiz.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Create Quiz</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Create Quiz</**h1**>

<**form** action=*""*>

Quiz title : <**input** type=*"text"* name=*"title"*><**br**><**br**>

Category : <**select** name=*"category"*><**option**>Mathematics</**option**><**option**>Science</**option**></**select**><**br**><**br**>

<**input** type=*"submit"* value=*"CreateQuiz"* name=*"CreateQuiz"*>

</**form**>

<%

if(request.getParameter("CreateQuiz")!=null){

QuizOperations qo=new QuizOperations();

qo.insert(request.getParameter("title"),request.getParameter("category"));

out.print("<h3 align='left'> Quiz Added Successfully</h3>");

}

%>

</**body**>

</**html**>

**dashboard.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**>Dashboard</**title**>

<**link** rel=*"stylesheet"* href=*"https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css"*>

<**script** src=*"https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"*></**script**>

<**script** src=*"https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"*></**script**>

</**head**>

<**body**>

<**nav** class=*"navbar navbar-light bg-light"*

style="box-shadow: *0 2px 4px rgba(0, 0, 0, 0.2)*;">

<**div** class=*"container-fluid"*>

<**div** class=*"navbar-header"*></**div**>

<**ul** class=*"nav navbar-nav"*>

</**ul**>

<**ul** class=*"nav navbar-nav navbar-right"*>

<**li**>

<**a** href=*"#"*>

<**span** class=*"glyphicon glyphicon-user"*></**span**>

<%=session.getAttribute("name")%>

</**a**>

</**li**>

<**li**>

<**a** href=*"#"* style="display: *inline-flex*">

<**span** class=*"glyphicon glyphicon-log-out"* style="top: *6px !important*; right: *5px*;"></**span**>

<**form** action=*""*>

<**input** type=*"submit"* name=*"logout"* value=*"log out"*>

</**form**>

</**a**>

</**li**>

</**ul**>

</**div**>

</**nav**>

<**h1** style="text-align: *center*">Welcome!!</**h1**>

<**h3** style="text-align: *center*">Please Click here <**a** href=*"StartQuiz.jsp"*>quiz link</**a**> to attempt the Quiz. </**h3**>

<%

if(request.getParameter("logout")!=null){

session.invalidate();

response.sendRedirect("login.jsp");

}

%>

</**body**>

</**html**>

**EditQuestion.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Edit Question</**title**>

</**head**>

<**body**>

<**a** href=*"QuestionsList.jsp"*>Go back</**a**>

<**h3**>Edit Question records</**h3**>

<**h3**>Edit Question</**h3**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"id"* value=*"*<%=request.getParameter("id")%>*"*>

Enter New Question : <**input** type=*"text"* name=*"question"*><**br**><**br**>

<**input** type=*"submit"* name=*"updateQuestion"* value=*"update question"*>

</**form**>

<%

if(request.getParameter("updateQuestion")!=null){

QuestionsOperations qo=new QuestionsOperations();

qo.updateQuestion(request.getParameter("id"),request.getParameter("question"));

out.print("<h3 align='center' style='color:blue'>Question updated successfully</h3>");

}

%>

<**hr**>

<**h3**>Edit option 1</**h3**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"id"* value=*"*<%=request.getParameter("id")%>*"*>

Enter new option 1 : <**input** type=*"text"* name=*"option1"*><**br**><**br**>

<**input** type=*"submit"* name=*"updateOption1"* value=*"update option 1"*>

</**form**>

<%

if(request.getParameter("updateOption1")!=null){

QuestionsOperations qo=new QuestionsOperations();

qo.updateoption1(request.getParameter("id"),request.getParameter("option1"));

out.print("<h3 align='center'>Option 1 updated successfully</h3>");

}

%>

<**hr**>

<**h3**>Edit option 2</**h3**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"id"* value=*"*<%=request.getParameter("id")%>*"*>

Enter new option 2 : <**input** type=*"text"* name=*"option2"*><**br**><**br**>

<**input** type=*"submit"* name=*"updateOption2"* value=*"update option 2"*>

</**form**>

<%

if(request.getParameter("updateOption2")!=null){

QuestionsOperations qo=new QuestionsOperations();

qo.updateoption2(request.getParameter("id"),request.getParameter("option2"));

out.print("<h3 align='center'>Option 2 updated successfully</h3>");

}

%>

<**hr**>

<**h3**>Edit option 3</**h3**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"id"* value=*"*<%=request.getParameter("id")%>*"*>

Enter new option 3 : <**input** type=*"text"* name=*"option3"*><**br**><**br**>

<**input** type=*"submit"* name=*"updateOption3"* value=*"update option 3"*>

</**form**>

<%

if(request.getParameter("updateOption3")!=null){

QuestionsOperations qo=new QuestionsOperations();

qo.updateoption3(request.getParameter("id"),request.getParameter("option3"));

out.print("<h3 align='center'>Option 3 updated successfully</h3>");

}

%>

<**hr**>

<**h3**>Edit option 4</**h3**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"id"* value=*"*<%=request.getParameter("id")%>*"*>

Enter new option 4 : <**input** type=*"text"* name=*"option4"*><**br**><**br**>

<**input** type=*"submit"* name=*"updateOption4"* value=*"update option 4"*>

</**form**>

<%

if(request.getParameter("updateOption4")!=null){

QuestionsOperations qo=new QuestionsOperations();

qo.updateoption4(request.getParameter("id"),request.getParameter("option4"));

out.print("<h3 align='center'>Option 4 updated successfully</h3>");

}

%>

<**hr**>

<**h3**>Edit Correct Option</**h3**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"id"* value=*"*<%=request.getParameter("id")%>*"*>

Enter the new correct option : <**select** name=*"correct"*>

<**option**>A</**option**>

<**option**>B</**option**>

<**option**>C</**option**>

<**option**>D</**option**>

</**select**><**br**><**br**>

<**input** type=*"submit"* name=*"updateOption"* value=*"update option correct"*>

</**form**>

<%

if(request.getParameter("updateOption")!=null){

QuestionsOperations qo=new QuestionsOperations();

qo.updateanswer(request.getParameter("id"),request.getParameter("correct"));

out.print("<h3 align='center'>Option Answer Updated Successfully</h3>");

}

%>

</**body**>

</**html**>

**EditUser.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>User Details</**title**>

</**head**>

<**body**>

<**a** href=*"UsersDetails.jsp"*>Go back</**a**>

<**h1**>Edit User Details</**h1**>

<**h2**>Change UserName</**h2**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"email"* value=*"*<%=request.getParameter("email")%>*"*>

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

<**input** type=*"submit"* name=*"updateName"* value=*"Update name"*>

</**form**>

<%

if(request.getParameter("updateName")!=null){

UserMain usermain=new UserMain();

usermain.updateName(request.getParameter("email"),request.getParameter("name"));

out.print("<h3>UserName updated successfully</h3>");

}

%>

<**h2**>Change User Password</**h2**>

<**form** action=*""*>

<**input** type=*"hidden"* name=*"email"* value=*"*<%=request.getParameter("email")%>*"*>

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

<**input** type=*"submit"* name=*"updatePassword"* value=*"Update password"*>

</**form**>

<%

if(request.getParameter("updatePassword")!=null){

UserMain usermain=new UserMain();

usermain.updatePass(request.getParameter("email"),request.getParameter("password"));

out.print("<h3>User Password updated successfully</h3>");

}

%>

</**body**>

</**html**>

**login.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

<!**DOCTYPE** html>

<**html**>

<**head**>

<**title**></**title**>

</**head**>

<**body**>

<**div** class=*"jumbotron"*>

<**h1** class=*"text-center"*>Welcome to Quiz portal</**h1**>

</**div**>

<**div** class=*"row"*>

<**div** class=*"col-md-4"*></**div**>

<**div** class=*"col-md-4"*>

<**form** action=*""*>

<**label** class=*"control-label"*>Enter email Id</**label**>

<**input** type=*"email"* name=*"email"* required class=*"form-control"* ><**br**>

<**label** class=*"control-label"*>Enter password </**label**>

<**input** type=*"password"* name=*"password"* required class=*"form-control"* ><**br**>

<**input** type=*"submit"* name=*"signin"* value=*"signin"* required class=*"btn btn-success"*><**br**><**br**>

</**form**>

Do not have an Account ? <**a** href=*"User.jsp"*>Sign up</**a**>

</**div**>

<**div** class=*"col-md-4"*></**div**>

</**div**>

<%

UserMain usermain=new UserMain();

if(request.getParameter("signin")!=null){

String name=usermain.validate(request.getParameter("email"),request.getParameter("password"));

if(!name.equals("Error")){

session.setAttribute("name",name);

response.sendRedirect("dashboard.jsp");

}

else{

response.sendRedirect("fail.jsp");

}

}

%>

</**body**>

</**html**>

**QuestionsList.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Question List</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Quiz Details</**h1**>

<%

QuestionsOperations qo=new QuestionsOperations();

List<Questions> list=qo.getQuestions();%>

<**table** border=*"1"*>

<**tr**><**th**>No.</**th**><**th**>Question</**th**><**th**>Option A</**th**><**th**>Option B</**th**><**th**>Option C</**th**><**th**>Option D</**th**><**th**>Correct option</**th**><**th**>Edit</**th**><**th**>Delete</**th**></**tr**>

<% for(Questions a:list){%>

<**tr**><**td**><%=a.id %></**td**><**td**><%=a.question %></**td**><**td**><%=a.option1 %></**td**><**td**><%=a.option2 %></**td**><**td**><%=a.option3 %></**td**><**td**><%=a.option4 %></**td**><**td**><%=a.answer %></**td**><**td**>

<**form** action=*"EditQuestion.jsp"*><**input** type=*"hidden"* name=*"id"* value=*"*<%=a.id %>*"*>

<**input** type=*"submit"* value=*"Edit"* name=*"editQues"*></**form**></**td**><**td**>

<**form** action=*""*><**input** type=*"hidden"* name=*"id"* value=*"*<%=a.id %>*"*>

<**input** type=*"submit"* value=*"Delete"* name=*"deleteQuestion"*></**form**></**td**></**tr**>

<%}%>

</**table**>

<%

if(request.getParameter("deleteQuestion")!=null){

QuestionsOperations qq=new QuestionsOperations();

qq.deleteQues(request.getParameter("id"));

response.sendRedirect("QuestionsList.jsp");

}

%>

</**body**>

</**html**>

**Quiz.jsp**

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

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

<%@**page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Quiz</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Quiz Details</**h1**>

<%

QuizOperations qo=new QuizOperations();

List<Quiz> list=qo.getQuiz();%>

<**table** border=*"1"* width=*"50"*>

<**tr**><**th**>No.</**th**><**th**>Quiz Title</**th**><**th**>Category</**th**></**tr**>

<% for(Quiz a:list){%>

<**tr**><**td**><%=a.id %></**td**><**td**><%=a.title %></**td**><**td**><%=a.category %></**td**></**tr**>

<%}%>

</**table**>

</**body**>

</**html**>

**QuizList.jsp**

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

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

<%@**page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Quiz</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Quiz Details</**h1**>

<%

QuizOperations qo=new QuizOperations();

List<Quiz> list=qo.getQuiz();%>

<**table** border=*"1"*>

<**tr**><**th**>No.</**th**><**th**>Quiz Title</**th**><**th**>Category</**th**></**tr**>

<% for(Quiz a:list){%>

<**tr**><**td**><%=a.id %></**td**><**td**><%=a.title %></**td**><**td**><%=a.category %></**td**>

</**tr**>

<%}%>

</**table**>

</**body**>

</**html**>

**register.jsp**

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

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

<%@**page** import=*"com.example.\*"* %>

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Registration Success</**title**>

</**head**>

<**body**>

<**h1**>Registration Successful</**h1**>

<%@ **include** file=*"login.jsp"* %>

</**body**>

</**html**>

**StartQuiz.jsp**

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

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

<%@**page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Quiz</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>Quiz Started</**h1**>

<%

QuestionsOperations qo=new QuestionsOperations();

List<Questions> list=qo.getQuestions();%>

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

<% int index = 1; %>

<% for(Questions a:list){%>

<**h3**><%= index %>) <%= a.question %></**h3**>

<**label**>

<**input** type=*"radio"* name=*"*<%= a.id %>*"* value=*"*<%= a.option1 %>*"*>

<%= a.option1 %>

</**label**><**br**>

<**label**>

<**input** type=*"radio"* name=*"*<%= a.id %>*"* value=*"*<%= a.option2 %>*"*>

<%= a.option2 %>

</**label**><**br**>

<**label**>

<**input** type=*"radio"* name=*"*<%= a.id %>*"* value=*"*<%= a.option3 %>*"*>

<%= a.option3 %>

</**label**><**br**>

<**label**>

<**input** type=*"radio"* name=*"*<%= a.id %>*"* value=*"*<%= a.option4 %>*"*>

<%= a.option4 %>

</**label**>

<**br**>

<% index++; %>

<%}%><**br**>

<**input** type=*"submit"* name=*"submit"* value=*"Submit"* required> <**br**><**br**>

</**form**>

</**body**>

</**html**>

**User.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Welcome to Quiz Portal</**title**>

</**head**>

<**body**>

<**h1**>Welcome to Quiz Portal...!</**h1**>

<**form** action=*""*>

UserName : <**input** type=*"text"* name=*"name"* required><**br**><**br**>

EmailId : <**input** type=*"email"* name=*"email"* required><**br**><**br**>

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

<**input** type=*"submit"* name=*"signup"* value=*"sign up"*><**br**><**br**>

</**form**>

Already do you have an Account? <**a** href=*"login.jsp"*>Sign in</**a**>

<%

if(request.getParameter("signup")!=null){

User user=new User();

UserMain usermain=new UserMain();

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

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

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

try{

usermain.insertUser(user);

response.sendRedirect("register.jsp");

}

catch (Exception e){

out.print("<h3>EmailId Already Exists</h3>");

}

}

%>

</**body**>

</**html**>

**UsersDetails.jsp**

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

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

<%@ **page** import=*"com.example.\*"* %>

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>User Details</**title**>

</**head**>

<**body**>

<**a** href=*"adminPage.jsp"*>Go back</**a**>

<**h1**>User Details</**h1**>

<%

UserMain qo=new UserMain();

List<User> list=qo.getUserList();%>

<**table** border=*"1"*>

<**tr**><**th**>User Name</**th**><**th**>User Email</**th**><**th**>User Password</**th**><**th**>Edit User</**th**><**th**>Delete User</**th**></**tr**>

<% for(User user:list){%>

<**tr**><**td**><%=user.name %></**td**><**td**><%=user.email %></**td**><**td**><%=user.password %></**td**><**td**>

<**form** action=*"EditUser.jsp"*><**input** type=*"hidden"* name=*"email"* value=*"*<%=user.email %>*"*>

<**input** type=*"submit"* value=*"Edit"* name=*"editUser"*></**form**></**td**><**td**>

<**form** action=*""*><**input** type=*"hidden"* name=*"email"* value=*"*<%=user.email %>*"*>

<**input** type=*"submit"* value=*"Delete"* name=*"deleteUser"*></**form**></**td**></**tr**>

<%}%>

</**table**>

<%

if(request.getParameter("deleteUser")!=null){

UserMain usermain=new UserMain();

usermain.deleteUser(request.getParameter("email"));

response.sendRedirect("UsersDetails.jsp");

}

%>

</**body**>

</**html**>

**DBMain.java**

package com.example;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;

public class DBMain {

public static final String ***DRIVER\_NAME***="com.mysql.jdbc.Driver";

public static final String ***URL\_NAME***="jdbc:mysql://localhost:3306/quiz";

public static final String ***USER\_NAME***="root";

public static final String ***PASS\_WORD***="Swetha@123";

public Connection getConnection() throws ClassNotFoundException, SQLException {

Class.*forName*(***DRIVER\_NAME***);

Connection conn=DriverManager.*getConnection*(***URL\_NAME***,***USER\_NAME***,***PASS\_WORD***);

return conn;

}

}

**QuizOperations.java**

package com.example;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.\*;

public class QuizOperations {

public List<Quiz> getQuiz() throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="select \* from quiz";

PreparedStatement ps=connect.prepareStatement(s);

ResultSet rs=ps.executeQuery();

List<Quiz> list=new ArrayList<>();

while(rs.next()) {

Quiz q=new Quiz();

q.id=rs.getInt("id");

q.title=rs.getString("title");

q.category=rs.getString("category");

list.add(q);

};

return list;

}

public void insert(String title,String category) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="insert into quiz(title,category) values(?,?)";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, title);

ps.setString(2, category);

ps.executeUpdate();

}

}

**UserMain.java**

package com.example;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

public class UserMain {

public void insertUser(User user) throws ClassNotFoundException, SQLException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="insert into user values(?,?,?)";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, user.name);

ps.setString(2, user.email);

ps.setString(3, user.password);

ps.executeUpdate();

}

public String validate(String mail,String password) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="select name from user where email=? and password=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, mail);

ps.setString(2, password);

ResultSet rs=ps.executeQuery();

System.***out***.println("Entered Validate");

if(rs.next()) {

System.***out***.println("Returning name");

return rs.getString("name");

}

System.***out***.println("Returning error");

return "Error";

}

public void updateName(String email,String name) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update user set name=? where email=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, name);

ps.setString(2, email);

ps.executeUpdate();

}

public void updatePass(String email,String password) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update user set password=? where email=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, password);

ps.setString(2, email);

ps.executeUpdate();

}

public void deleteUser(String email) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="delete from user where email=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, email);

ps.executeUpdate();

}

public List<User> getUserList() throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="select \* from user";

PreparedStatement ps=connect.prepareStatement(s);

ResultSet rs=ps.executeQuery();

List<User> list=new ArrayList<>();

while(rs.next()) {

User user=new User();

user.name=rs.getString("name");

user.email=rs.getString("email");

user.password=rs.getString("password");

list.add(user);

};

return list;

}

}

**QuestionOperation.java**

package com.example;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

public class QuestionsOperations {

public void insert(Questions q) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="insert into questions(question,option1,option2,option3,option4,answer) values(?,?,?,?,?,?)";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, q.question);

ps.setString(2, q.option1);

ps.setString(3, q.option2);

ps.setString(4, q.option3);

ps.setString(5, q.option4);

ps.setString(6, q.answer);

ps.executeUpdate();

}

public void updateQuestion(String id,String question) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update questions set question=? where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, question);

ps.setInt(2, Integer.parseInt(id) );

ps.executeUpdate();

}

public void updateoption1(String id,String option) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update questions set option1=? where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, option);

ps.setInt(2, Integer.parseInt(id) );

ps.executeUpdate();

}

public void updateoption4(String id,String option) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update questions set option4=? where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, option);

ps.setInt(2, Integer.parseInt(id) );

ps.executeUpdate();

}

public void updateoption2(String id,String option) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update questions set option2=? where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, option);

ps.setInt(2, Integer.parseInt(id) );

ps.executeUpdate();

}

public void updateoption3(String id,String option) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update questions set option3=? where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, option);

ps.setInt(2, Integer.parseInt(id) );

ps.executeUpdate();

}

public void updateanswer(String id,String option) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="update questions set answer=? where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setString(1, option);

ps.setInt(2, Integer.parseInt(id) );

ps.executeUpdate();

}

public void deleteQues(String id) throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="delete from questions where id=?";

PreparedStatement ps=connect.prepareStatement(s);

ps.setInt(1, Integer.parseInt(id) );

ps.executeUpdate();

}

public List<Questions> getQuestions() throws SQLException, ClassNotFoundException {

DBMain db=new DBMain();

Connection connect=db.getConnection();

String s="select \* from questions";

PreparedStatement ps=connect.prepareStatement(s);

ResultSet rs=ps.executeQuery();

List<Questions> list=new ArrayList<>();

while(rs.next()) {

Questions q=new Questions();

q.id=rs.getInt("id");

q.question=rs.getString("question");

q.option1=rs.getString("option1");

q.option2=rs.getString("option2");

q.option3=rs.getString("option3");

q.option4=rs.getString("option4");

q.answer=rs.getString("answer");

list.add(q);

};

return list;

}

}

**Question.java**

**package** com.example;

**public** **class** Questions {

**public** **int** id;

**public** String question;

**public** String option1;

**public** String option2;

**public** String option3;

**public** String option4;

**public** String answer;

}

**User.java**

**package** com.example;

**public** **class** User {

**public** String name;

**public** String email;

**public** String password;

}

**Quiz.java**

**package** com.example;

**public** **class** Quiz {

**public** **int** id;

**public** String title;

**public** String category;

}