Name:Mahendra Reddy D
id:2582885

Dbutil.java

```java
package com.db.util;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.boot.Metadata;
import org.hibernate.boot.MetadataSources;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;

public class Dbutil {

        StandardServiceRegistry  ssr=null;
        Metadata md=null;
        SessionFactory sf=null;
        Session session=null;

        public Session dbConn() {
                //SSR is used to map the config file and execute it .
                 ssr=new StandardServiceRegistryBuilder().configure("hibernate.cfg.xml").build();

                //Metadata of the xml file is read by this object
                md=new MetadataSources(ssr).getMetadataBuilder().build();
                //session-factory- db
                 sf=md.getSessionFactoryBuilder().build();
                //all the crud operations need to be done in Session
                session=sf.openSession();

                return session;

     }
}
```

UserDao.java

```java
package com.quiz.dao;

import com.quiz.pojo.*;

import java.util.*;

import org.hibernate.Session;
import org.hibernate.Transaction;
import org.hibernate.query.Query;

import com.db.util.*;
```

```java
public class UserDao {

        public int addUser(User user) {
                int value;
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();

                String ses = (String) session.save(user);
                if (ses != null) {
                        value = 1;
                } else {
                        value = 0;
                }
                trans.commit();
                session.close();
                return value;
        }

        public String valid(String username, String pass) {

                String name = null;
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                System.out.print(username);
                String hql = "FROM User U WHERE U.username = :userEmail";
                Query query = session.createQuery(hql);
                query.setParameter("userEmail", username);

                List<User> results = query.list();

                for (User use : results) {

                        if (username.equals(use.getUsername()) && pass.equals(use.getPassword()))
{
                                name = use.getName();
                        }

                }
                trans.commit();
                session.close();
                return name;

        }

        public String adminvalid(String username, String pass) {
                String name = null;
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                String hql = "FROM Admin a WHERE a.useremail = :userEmail";

                Query query = session.createQuery(hql);
```

```java
                query.setParameter("userEmail", username);
                List<Admin> results = query.list();

                for (Admin admin : results) {
                        if (username.equals(admin.getUseremail()) &&
pass.equals(admin.getUserpass())) {
                                String s = admin.getUseremail();
                                name = s.substring(0, 5);

                        }

                }
                trans.commit();
                session.close();
                return name;

        }

        /*Add Quiz*/

        public int addquiz(String DbName,Quiz quiz) {
                int value = 0;
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();

                session.createSQLQuery("use "+DbName).executeUpdate();

                int ses = (Integer) session.save(quiz);
                if (ses != 0) {
                        value = 1;

                } else {
                        value = 0;
                }
                trans.commit();
                session.close();
                return value;
        }


        //Fetch question for the user
        public List<Quiz> fetchQues(String DbName) {
//              ArrayList<Quiz> list=new ArrayList<Quiz>();
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                session.createSQLQuery("use "+DbName).executeUpdate();
                String hql = "FROM Quiz";
                Query query = session.createQuery(hql);
                List<Quiz> questionList = query.list();

                return questionList;
        }
```

```java
/*Add score table*/
    public int addScore(TestScore Ts) {
            int value=0;
            Dbutil dbconn = new Dbutil();
            Session session = dbconn.dbConn();
            Transaction trans = session.beginTransaction();

            int ses = (Integer) session.save(Ts);
            if (ses > 0) {
                    value = 1;

            }
            trans.commit();
            session.close();

            return value;

    }

    // Show Database
            public List<String> display(){
                    Dbutil dbconn = new Dbutil();
                    Session session = dbconn.dbConn();
                    Transaction trans = session.beginTransaction();
                    //HQL
                    String sql="show databases LIKE '%bank'";
                    List<String> databases= session.createSQLQuery(sql).list();
                    for(String database:databases) {
                            String dbName=database;

                    }

                    trans.commit();
                    session.close();
                    return databases;
            }

    //display quiz admin
            public List<Quiz> displayadmin(String dbname){
                    Dbutil dbconn = new Dbutil();
                    Session session = dbconn.dbConn();
                    Transaction trans = session.beginTransaction();
                    session.createSQLQuery("use "+dbname).executeUpdate();
                    String hql ="From Quiz";
                    Query query =session.createQuery(hql);
                    List<Quiz> qlist=query.list();
                    trans.commit();
                    session.close();
                    return qlist;

            }
//edit quiz
            public List<Quiz> editQuiz(String dbname,int id){
                    Dbutil dbconn = new Dbutil();
```

```java
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                session.createSQLQuery("use "+dbname).executeUpdate();
                String hql ="From Quiz where Srno ="+id;
                Query query =session.createQuery(hql);
                List<Quiz> qlist=query.list();
                trans.commit();
                session.close();
                return qlist;
        }

        //Update Quiz
        public int UpdateQuiz(String DbName,int id,Quiz updatedQuiz) {
                int value = 0;
                System.out.print(id);
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();

                session.createSQLQuery("use "+DbName).executeUpdate();
                String hql = "update  Quiz set ques = :ques, opt1 = :opt1, opt2 = :opt2, opt3 =
:opt3, opt4 = :opt4, correctopt = :correctopt where  srno = :id";
                Query query = session.createQuery(hql);

                query.setParameter("ques", updatedQuiz.getQues());
                query.setParameter("opt1", updatedQuiz.getOpt1());
                query.setParameter("opt2", updatedQuiz.getOpt2());
                query.setParameter("opt3", updatedQuiz.getOpt3());
                query.setParameter("opt4", updatedQuiz.getOpt4());
                query.setParameter("correctopt", updatedQuiz.getCorrectopt());
                query.setParameter("id", id);
                int rowsAffected = query.executeUpdate();

                if (rowsAffected > 0) {
                   value = 1; // Update successful
                } else {
                   value = 0; // Update failed
                }
                trans.commit();
                session.close();
                return value;
        }
// Delete question
        public int  delete(String dbname,Quiz quiz) {
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                session.createSQLQuery("use "+dbname).executeUpdate();
                session.delete(quiz);
                trans.commit();
                session.close();
                return 0;
        }
//display Score
        public List<TestScore> showScore(){
```

```java
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                String hql ="From TestScore";
                Query query =session.createQuery(hql);
                List<TestScore> tlist=query.list();
                trans.commit();
                session.close();
                return tlist;

        }
        public int  deleteDb(String dbname) {

                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
                 String sql = "DROP SCHEMA IF EXISTS " + dbname;
                 session.createNativeQuery(sql).executeUpdate();
                trans.commit();
                session.close();
                return 0;
        }

        public int editDb(String oldDbname,String newDbName) {
                Dbutil dbconn = new Dbutil();
                Session session = dbconn.dbConn();
                Transaction trans = session.beginTransaction();
//              String sql = "ALTER DATABASE " + oldDbname + " RENAME TO " +
newDbName;
                String sql ="ALTER DATABASE  "+ oldDbname +"MODIFY
NAME="+newDbName;
                session.createNativeQuery(sql).executeUpdate();
                return 0;

        }

}
```

Admin.java

```java
package com.quiz.pojo;

import javax.persistence.Entity;
import javax.persistence.Id;

@Entity
public class Admin {

        @Id
        private String useremail;
        private String userpass;
        public String getUseremail() {
                return useremail;
        }
        public String getUserpass() {
```

```
                    return userpass;}}
```

Quiz.java

```java
package com.quiz.pojo;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class Quiz {

        @Id
  private int Srno;
  private String ques;
  private String opt1;
  private String opt2;
  private String opt3;
  private String opt4;
  private String correctopt;
public int getSrno() {
        return Srno;
}
public void setSrno(int srno) {
        Srno = srno;
}
public String getQues() {
        return ques;
}
public void setQues(String ques) {
        this.ques = ques;
}
public String getOpt1() {
        return opt1;
}
public void setOpt1(String opt1) {
        this.opt1 = opt1;
}
public String getOpt2() {
        return opt2;
}
public void setOpt2(String opt2) {
        this.opt2 = opt2;
}
public String getOpt3() {
        return opt3;
}
public void setOpt3(String opt3) {
        this.opt3 = opt3;
}
public String getOpt4() {
        return opt4;
}
public void setOpt4(String opt4) {
```

```java
            this.opt4 = opt4;
    }
    public String getCorrectopt() {
            return correctopt;
    }
    public void setCorrectopt(String correctopt) {
            this.correctopt = correctopt;
    }
}
```

TestScore.java

```java
package com.quiz.pojo;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

@Entity
public class TestScore {
        @Id
        @GeneratedValue(strategy=GenerationType.AUTO)
        private int id;
        private String name;
        private int Score ;
        private String dbname;

        public String getName() {
                return name;
        }
        public void setName(String name) {
                this.name = name;
        }
        public int getScore() {
                return Score;
        }
        public void setScore(int score) {
                Score = score;
        }
        public String getDbname() {
                return dbname;
        }
        public void setDbname(String dbname) {
                this.dbname = dbname;
        }

        }
```

User.java

```java
package com.quiz.pojo;

import javax.persistence.Entity;
```

```java
import javax.persistence.Id;

@Entity
public class User {

    @Id
    private String username;
    private String password;
    private String name;
    public String getUsername() {
        return username;
    }
    public void setUsername(String username) {
        this.username = username;
    }
    public String getPassword() {
        return password;
    }
    public void setPassword(String password) {
        this.password = password;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}
```

hibernate.cfg.xml

```xml
<hibernate-configuration>
<session-factory>
<property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
<property name="hibernate.connection.password">root</property>
<property name="hibernate.connection.url">jdbc:mysql://localhost/quiz</property>
<property name="hibernate.connection.username">root</property>
<property name="hibernate.dialect">org.hibernate.dialect.MySQL8Dialect</property>
<!-- hibernate config   -->
<property name="hbm2ddl.auto">update</property>
<property name="show_sql">true</property>
<!-- pojo  -->
<mapping class="com.quiz.pojo.User"/>
<mapping class="com.quiz.pojo.Admin"/>
<mapping class="com.quiz.pojo.Quiz"/>
<mapping class="com.quiz.pojo.TestScore"/>
</session-factory>
</hibernate-configuration>
```

addQuiz.jsp

```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>
 <%@include file="adminDashboard.jsp" %>
<span><a href="showCat.jsp">Category</a></span>
        <div style="display: flex; flex-direction: row; width: 100vw;">
                <%
                String DbName = request.getParameter("database");
                %>

                <div
                        style="text-align: left; border: 1px solid black; padding: 10px;margin-
left:500px;padding:50px">
                        <h1>Create New Quiz</h1>
                        <form action="addQuizController.jsp?database=<%=DbName%>"
                                method="post">
                                Question no<br> <input type="text" name="srno"><br>
                                Question <br> <input type="text" name="ques"><br>
                                Option 1 <br> <input type="text" name="opt1"><br>
                                Option 2<br> <input type="text" name="opt2"><br>
                                Option 3 <br> <input type="text" name="opt3"><br>
                                Option 4 <br> <input type="text" name="opt4"><br>
                                Correct Option <br> <input type="text" name="correctopt"><br>
                                <input type="submit" name="Submit" style="margin-top: 10px;">
                        </form>
                </div>


        </div>
</body>
</html>
```

addQuizController.jsp

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

```jsp
<%@ page import="com.quiz.dao.*"%>
<%@ page import="com.quiz.pojo.*"%>
 <%@page errorPage="quizError.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        <%
        UserDao dao= new UserDao();
         Quiz quiz = new Quiz();
         String DbName = request.getParameter("database");

         quiz.setSrno(Integer.parseInt(request.getParameter("srno")));
         quiz.setQues(request.getParameter("ques"));
         quiz.setOpt1(request.getParameter("opt1"));
         quiz.setOpt2(request.getParameter("opt2"));
         quiz.setOpt3(request.getParameter("opt3"));
         quiz.setOpt4(request.getParameter("opt4"));
         quiz.setCorrectopt(request.getParameter("correctopt"));
         int row = dao.addquiz(DbName, quiz);
         if(row>0){
                out.print("Quiz added Succesfully");

                 RequestDispatcher rd=request.getRequestDispatcher("quiz.jsp");
     rd.include(request, response);
         } %>




</body>
</html>
```

admin.jsp

```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>
        <div style="border: 1px solid #ccc; margin-left:40%; padding: 20px; width:250px">
        <h4 style="text-align: center;">Quiz Portal</h4>
                <h4 style="text-align: center;">Admin Login</h4>
                <form action="adminLoginServlet.jsp" method="post">
                        <div
                                style="display: flex; justify-content: space-between; align-items:
center; margin-bottom: 10px;">
```

```
                                                <label for="email" style="margin-right: 10px;">Email:</label>
<input
                                                    type="text" name="email">
                            </div>
                            <div
                                            style="display: flex; justify-content: space-between; align-items:
center; margin-bottom: 10px;">
                                    <label for="password" style="margin-right:
10px;">Password:</label>
                                    <input type="password" name="password">
                            </div>
                            <div style="text-align: center;">
                                    <input type="submit" value="Submit">
                            </div>
                    </form>
            </div>

</body>
</html>
```

adminDashboard.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>
<div >

  <div style="display: flex; justify-content: space-between;">
  <h1 style="margin: 0;">Welcome</h1>
  <div style="text-align: right;">
   ${LoggedInUser}<br>
   <a href="logoutServlet.jsp">Logout</a>
  </div>
</div>




</div>
</body>
</html>
```

adminLoginServlet.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
<%@ page import="com.quiz.dao.*"%>
 <%@page errorPage="adminError.jsp" %>
<!DOCTYPE html>
```

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        <%
 UserDao dao = new UserDao();
 String username = request.getParameter("email");
 String password = request.getParameter("password");
 String name=dao.adminvalid(username, password);
 if(name!=null){
        session.setAttribute("LoggedInUser", name);
                response.sendRedirect("showCat.jsp");
 }
 else{%>
        <div style="text-align: center; margin-top: 20px;">
  <% out.print("Error Username or Password"); %>
  </div>
  <%
        RequestDispatcher rd=request.getRequestDispatcher("admin.jsp");
    rd.include(request, response);
 }
 %>



</body>
</html>
```

Category.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
     <%@ page import="com.quiz.dao.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<table>
<th> Category </th>
<th> Edit table </th>
<th> Delete table </th>
</table>


<a href=""></a>

</body>
</html>
```

deletCatcontroller.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="com.quiz.dao.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String dbName = request.getParameter("database");
UserDao d = new UserDao();
d.deleteDb(dbName);
%>
<%="Category Get deleted" %>
<%@ include file="showCat.jsp" %>


</body>
</html>
```

deleteQuizController.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="com.quiz.dao.*"%>
<%@page import="java.util.*"%>
<%@ page import="com.quiz.pojo.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String dbName = request.getParameter("database");
String qid = request.getParameter("quizid");
int id = Integer.parseInt(qid);
UserDao dao = new UserDao();
Quiz quiz = new Quiz();
quiz.setSrno(id);
int value = dao.delete(dbName,quiz);
if (value ==0){
        out.print("Quiz Delete Succesfully");

        RequestDispatcher rd=request.getRequestDispatcher("quiz.jsp");
    rd.include(request, response);
}
%>
</body>
</html>
```

displayScore.jsp

```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>

</body>
</html>
```

EditDB.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
      <%@ page import="com.quiz.dao.*"%>


<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String dbname =(request.getParameter("database"));
UserDao d = new UserDao();
out.print(dbname);
%>
<form action="editDbcontroller.jsp">
<input type="hidden" name="olddbname" value=<%=dbname %>>
New Category name :
<input type="text" name="newdbname">
<input type="submit">
</form>
</body>
</html>
```

editdbController.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
     <%@ page import="com.quiz.dao.*"%>
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String olddb = request.getParameter("olddbname");
String newdb =request.getParameter("newdbname");
UserDao d= new UserDao();
d.editDb(olddb, newdb);

%>


</body>
</html>
```

EditQuiz.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
<%@ page import="com.quiz.dao.*"%>
<%@page import="java.util.*"%>
<%@ page import="com.quiz.pojo.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        <%
        String dbName = request.getParameter("database");
        String qid = request.getParameter("quizid");
        int sid = Integer.parseInt(qid);
        UserDao dao = new UserDao();
        List<Quiz> qlist = dao.editQuiz(dbName, sid);
        %>

        <div
                style="width: 20%; margin: auto; padding: 20px; border: 1px solid black; text-align:
left;">
                <h3>Edit Quiz</h3>
                <form

        action="EditQuizController.jsp?database=<%=dbName%>&quizid=<%=sid%>">
                        <input type="hidden" name="dbname" value="<%=dbName%>">
                        <%
                        for (Quiz q : qlist) {
                        %>


                        <input type="hidden" name="quizSrno" value="<%=q.getSrno()%>">
                        <div style="padding: 10px;">
```

```html
            <label>Question:</label>  <br>
             <input type="text" name="question"
                    value="<%=q.getQues()%>">
    </div>
    <div style="padding: 10px;">
            <label>Option 1:</label> <br> <input type="text" name="options1"
                    value="<%=q.getOpt1()%>">
    </div>
    <div style="padding: 10px;">
            <label>Option 2:</label>  <br> <input type="text" name="options2"
                    value="<%=q.getOpt2()%>">
    </div>
    <div style="padding: 10px;">
            <label>Option 3:</label>  <br> <input type="text" name="options3"
                    value="<%=q.getOpt3()%>">
    </div>
    <div style="padding: 10px;">
            <label>Option 4:</label>  <br> <input type="text" name="options4"
                    value="<%=q.getOpt4()%>">
    </div>
    <div style="padding: 10px;">
            <label>Correct Option:</label>  <br> <input type="text"
                    name="correctOptions" value="<%=q.getCorrectopt()%>">
            <div style="padding: 10px;">
                    <input type="submit" value="Update Quiz">
            </div>

            <%
            }
            %>

            </form>
        </div>
</body>
</html>
```

EditQuizController.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="com.quiz.dao.*"%>
<%@page import="java.util.*"%>
<%@ page import="com.quiz.pojo.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
```

```
</head>
<body>
<%
String dbName = request.getParameter("dbname");

UserDao dao = new UserDao();
Quiz q = new Quiz();
int sno=Integer.parseInt(request.getParameter("quizSrno"));

q.setSrno(sno);
q.setQues(request.getParameter("question"));
q.setOpt1(request.getParameter("options1"));
q.setOpt2(request.getParameter("options2"));
q.setOpt3(request.getParameter("options3"));
q.setOpt4(request.getParameter("options4"));
q.setCorrectopt(request.getParameter("correctOptions"));
int row = dao.UpdateQuiz(dbName, sno, q);
if(row>0){%>
    <%="The Quiz Edited successfully" %>

<%
response.sendRedirect("quiz.jsp?database="+dbName);
} %>




</body>
</html>
```

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>Insert title here</title>
</head>
<body>
<div style="width: 300px; margin: 0 auto; border: 1px solid #ccc; padding: 20px; text-align: center;">
   <h2>Quiz Portal</h2>
   <h4>User Login</h4>
  <form action="loginUserServlet.jsp" method="post">
  <div style="text-align: center; margin-bottom: 10px;">
     <label style="display: inline-block; text-align: right; width: 80px;">Email:</label>
     <input type="text" name="email" style="margin-bottom: 10px;">
  </div>
  <div style="text-align: center; margin-bottom: 10px;">
     <label style="display: inline-block; text-align: right; width: 80px;">Password:</label>
     <input type="password" name="password" style="margin-bottom: 10px;">
  </div>
  <div style="text-align: center;">
     <input type="submit" value="Submit" style="margin-bottom: 10px;">
```

```
        </div>
</form>
<div style="text-align: center; margin-bottom: 10px;">
   Not a user? <a href="register.jsp">Register</a>
</div>
<div style="text-align: center;">
   Admin Login: <a href="admin.jsp">Admin</a>
</div>

</div>


</body>
</html>
```

loginUserServlet.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="com.quiz.dao.*" %>
    <%@ page import="com.quiz.pojo.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
UserDao dao = new UserDao();
User use = new User();
String username = request.getParameter("email");
String password = request.getParameter("password");
String name = use.getName();
String row=dao.valid(username, password);
if(row!=null){
        session.setAttribute("LoggedInUser", row);
        response.sendRedirect("UserDashboard.jsp");

}
else{%>
 <div style="text-align: center;">
        <% out.print("Error Login Username and Password"); %>
 </div>
        <%@ include file="index.jsp" %>

<% }%>

</body>
</html>
```

logOutServlet.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>
<%
 session.invalidate();
%>


<div style="text-align: center;">
    <% out.print("You are logout Successfully"); %>
</div>
<%@ include file="index.jsp" %>
</body>
</html>
```

quiz.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
         pageEncoding="ISO-8859-1"%>
<%@ page import="com.quiz.dao.*"%>
<%@page import="java.util.*"%>
<%@ page import="com.quiz.pojo.*"%>
<%@page errorPage="QuizListError.jsp"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        <%
String databaseName = request.getParameter("database");
%>
 <%@include file="adminDashboard.jsp" %>

        <span><a href="addQuiz.jsp?database=<%=databaseName%>">Add Quiz</a></span>
        <span><a href="showCat.jsp">Category</a></span>
        <br>
<table style="border-collapse: collapse; width: 100%; text-align: center;">
  <tr style="background-color: #f2f2f2;">
    <th style="padding: 10px;">Question</th>
    <th style="padding: 10px;">Option 1</th>
    <th style="padding: 10px;">Option 2</th>
    <th style="padding: 10px;">Option 3</th>
    <th style="padding: 10px;">Option 4</th>
    <th style="padding: 10px;">Correct Answer</th>
    <th style="padding: 10px;">Edit</th>
    <th style="padding: 10px;">Delete</th>
  </tr>
  <% UserDao daoo = new UserDao();
```

```
      int quizId;
      List<Quiz> qlist = daoo.displayadmin(databaseName);
      for (Quiz quz : qlist) {
        quizId = quz.getSrno();
    %>
    <tr>
      <td style="padding: 10px;"><%= quz.getQues() %></td>
      <td style="padding: 10px;"><%= quz.getOpt1() %></td>
      <td style="padding: 10px;"><%= quz.getOpt2() %></td>
      <td style="padding: 10px;"><%= quz.getOpt3() %></td>
      <td style="padding: 10px;"><%= quz.getOpt4() %></td>
      <td style="padding: 10px;"><%= quz.getCorrectopt() %></td>
      <td style="padding: 10px;"><a href="EditQuiz.jsp?database=<%= databaseName
%>&quizid=<%= quizId %>">Edit</a></td>
      <td style="padding: 10px;"><a href="deleteQuizController.jsp?database=<%= databaseName
%>&quizid=<%= quizId %>">Delete</a></td>
    </tr>
    <% } %>
</table>


</body>
</html>
```

quizError.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>
 <% out.print("Question no is already Present in database."); %>
 <%@ include file="addQuiz.jsp" %><br>
</body>
</html>
```

QuizListError.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>
<%
```

```jsp
String dbName = request.getParameter("database");
%>
<a href="addQuiz.jsp?database=<%=dbName%>">Add Quiz</a><br>
<%="No user" %>

</body>
</html>
```

quizSubmitController.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
   pageEncoding="ISO-8859-1"%>
   <%@page import="java.util.*" %>
   <%@ page import="com.quiz.dao.*"%>
   <%@ page import="com.quiz.pojo.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<%
String dbName = request.getParameter("database");
TestScore Ts = new TestScore();
String loggedInUser = (String) session.getAttribute("LoggedInUser");
int score = 0;
UserDao dao=new UserDao();

List<Quiz> quizQuestions = dao.fetchQues(dbName);


//Iterate through each quiz question and check the user's answer
for (Quiz question : quizQuestions) {
 String userAnswer = request.getParameter("name" + question.getSrno());
 String correctAnswer = request.getParameter("correctAnswer" + question.getSrno());

 // Compare the user's answer with the correct answer
 if (userAnswer != null && userAnswer.equals(correctAnswer)) {
    score++;
 }
}
Ts.setName(loggedInUser);
Ts.setScore(score);
Ts.setDbname(dbName);
int value = dao.addScore(Ts);
if(value>0){
 List<TestScore> Tscore = dao.showScore();%>
  <h2 style="text-align: center; margin-top: 20px;">Score Board</h2>
<table style="border-collapse: collapse; width: 50%; margin: 20px 0 0 25%;">
   <tr style="background-color: #f2f2f2;">
      <th style="padding: 10px; border: 1px solid #ccc;">Name</th>
      <th style="padding: 10px; border: 1px solid #ccc;">Category Name</th>
      <th style="padding: 10px; border: 1px solid #ccc;">Score</th>
   </tr>
```

```jsp
    <% for (TestScore t : Tscore) { %>
      <tr>
        <td style="padding: 10px; border: 1px solid #ccc;"><%= t.getName() %></td>
        <td style="padding: 10px; border: 1px solid #ccc;"><%= t.getDbname() %></td>
        <td style="padding: 10px; border: 1px solid #ccc;"><%= t.getScore() %></td>
      </tr>
    <% } %>
</table>

<%} %>

</body>
</html>
```

register.jsp

```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>
<h1>User Registration</h1>
<form action="RegisterUserController.jsp" method="post">
<table>
<tr><td>Name</td><td><input type="text" name="uname"></td></tr>
<tr><td>Email</td><td><input type="email" name="uemail"></td></tr>
<tr><td>Password</td><td><input type="text" name="upass"></td></tr>
<tr><td></td><td><input type="submit" value="Register"></td></tr>
</table>

</form>

</body>
</html>
```

RegisterUserController.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="com.quiz.dao.*" %>
    <%@ page import="com.quiz.pojo.*" %>
    <%@page errorPage="ReguserError.jsp" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
UserDao dao= new UserDao();
```

```
User user = new User();

user.setName(request.getParameter("uname"));
user.setUsername(request.getParameter("uemail"));
user.setPassword(request.getParameter("upass"));
int row=dao.addUser(user);

        if(row>0){%>
        <%="User Added Successfully" %>
<%@ include file="register.jsp" %>
<a href="index.jsp">Back to HomePage</a>
  <% } %>


</body>
</html>
```

ReguserError.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
   pageEncoding="ISO-8859-1"%>
   <%@page isErrorPage="true" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%@ include file="index.jsp" %><br>
<% out.print("User Already Present in Database"); %>
</body>
</html>
```

showCat.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
   pageEncoding="ISO-8859-1"%>
   <%@ page import="com.quiz.dao.*"%>
   <%@page import="java.util.*" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<div>
<%@include file="adminDashboard.jsp" %>
<table style="border-collapse: collapse; width: 50%; text-align: center; margin-left:350px">
  <tr style="background-color: #f2f2f2;">
    <th style="padding: 10px;">Category</th>
    <th style="padding: 10px;">Edit table</th>
    <th style="padding: 10px;">Delete table</th>
  </tr>
```

```
<% UserDao dao = new UserDao();
   List<String> databases = dao.display();
   for (String database : databases) { %>
<tr>
   <td style="padding: 10px;"><a href="quiz.jsp?database=<%=database%>"><%= database %>
</a></td>
   <td style="padding: 10px;"><a href="EditDB.jsp?database=<%=database%>">Edit</a></td>
   <td style="padding: 10px;"><a
href="deleteCatcontroller.jsp?database=<%=database%>">Delete</a></td>
</tr>
<% } %>
</table>



</div>
</body>
</html>
```

UserDashboard.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
<%@ page import="com.quiz.dao.*"%>
<%@page import="java.util.*"%>
<%@ page import="com.quiz.pojo.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

        <%
String loggedInUser = (String) session.getAttribute("LoggedInUser");
%>
<div style="display: flex; justify-content: space-between;">
   <h3 style="margin-right: 10px; display: inline;">Welcome ,
    <i><% out.print("Hello " + " "+loggedInUser); %></i>
   </h3>
   <div style="margin-left: auto;">

      <a href="logoutServlet.jsp" style="margin-left: 10px;">Logout</a>
   </div>
</div>

<h3 style="text-align: center;">Quiz Category List</h3>

<table style="width: 50%; border-collapse: collapse; margin-left:25%">
   <tr>
      <th style="padding: 10px; background-color: #f2f2f2;border-right: 1px solid
#ddd;">Category</th>
      <th style="padding: 10px; background-color: #f2f2f2;">Edit table</th>
   </tr>
   <% UserDao dao = new UserDao();
```

```
      List<String> databases = dao.display();
      for (String database : databases) { %>
   <tr>
      <td style="padding: 10px; border-bottom: 1px solid #ddd;border-right: 1px solid #ddd;"><%=
database %></td>
      <td style="padding: 10px; border-bottom: 1px solid #ddd;border-right: 1px solid #ddd;"><a
href="userQuestion.jsp?database=<%= database %>">Take Test</a></td>
   </tr>
   <% } %>
</table>



</body>
</html>
```

userQuestion.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
   pageEncoding="ISO-8859-1"%>
   <%@ page import="com.quiz.dao.*"%>
      <%@page import="java.util.*" %>
<%@ page import="com.quiz.pojo.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<% String dbName = request.getParameter("database"); %>
<h2 style="text-align: center; margin-top: 20px;">Quiz</h2>
 <div style="max-width: 500px; margin: 0 auto; border: 1px solid black; padding: 20px;">
   <form action="quizSubmitController.jsp?database=<%=dbName %>" method="post">
      <%
      UserDao dao = new UserDao();
      List<Quiz> list = dao.fetchQues(dbName);
      for (Quiz q : list) { %>
         <div style="margin-bottom: 20px; padding: 10px; border: 1px solid gray;">
            <p><strong>Q<%= q.getSrno() %> :</strong> <%= q.getQues() %></p>
            <label><input type="radio" name="name<%= q.getSrno() %>" value="<%= q.getOpt1()
%>"> <%= q.getOpt1() %></label><br>
            <label><input type="radio" name="name<%= q.getSrno() %>" value="<%= q.getOpt2()
%>"> <%= q.getOpt2() %></label><br>
            <label><input type="radio" name="name<%= q.getSrno() %>" value="<%= q.getOpt3()
%>"> <%= q.getOpt3() %></label><br>
            <label><input type="radio" name="name<%= q.getSrno() %>" value="<%= q.getOpt4()
%>"> <%= q.getOpt4() %></label><br>
            <input type="hidden" name="correctAnswer<%= q.getSrno() %>" value="<%=
q.getCorrectopt() %>">
         </div>
      <% } %>
      <input type="submit" value="Submit" style="margin-top: 10px;">
   </form>
</div>
```

```
</body>
</html>
```