

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

Package: com.questions:

AddSQLQuestionsServlet.java:

```
package com.questions;
```

```
import java.io.IOException;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.Transaction;
```

```
import com.user.HibernateUtil;
```

```
@WebServlet("/addsqlquestion")
```

```
public class AddSQLQuestionServlet extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
        String question = request.getParameter("question");
```

```
        String option1 = request.getParameter("option1");
```

```
        String option2 = request.getParameter("option2");
```

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```
String option3 = request.getParameter("option3");

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

int correctOption = Integer.parseInt(request.getParameter("correctOption"));


// Create a new SQLQuestion object and set the values

SQLQuestion sqlQuestion = new SQLQuestion();

sqlQuestion.setQuestion(question);

sqlQuestion.setOption1(option1);

sqlQuestion.setOption2(option2);

sqlQuestion.setOption3(option3);

sqlQuestion.setOption4(option4);

sqlQuestion.setCorrectOption(correctOption);


// Save the SQLQuestion object to the database using Hibernate

Session session = HibernateUtil.getSessionFactory().openSession();

Transaction transaction = session.beginTransaction();

session.save(sqlQuestion);

try {

    transaction.commit();

} catch (Exception e) {

    if (transaction != null) {

        transaction.rollback();

    }

    e.printStackTrace();

} finally {
```

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```
        session.close();

    }

    response.sendRedirect("addquestion.jsp");
}
}
```

DeleteSQLQuestionServlet.java:

```
package com.questions;
```

```
import java.io.IOException;
```

```
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("/deletesqlquestion")
```

```
public class DeleteSQLQuestionServlet extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
        ServletException, IOException {
```

```
        // Retrieve the question ID from the request parameter
```

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```
        Long questionId = Long.parseLong(request.getParameter("id"));

        // Delete the SQL question from the database

        SQLQuestionDAO.deleteSQLQuestion(questionId);

        // Redirect back to the view page

        response.sendRedirect(request.getContextPath() + "/viewsqllist");
    }
}
```

EditSQLQuestionServlet.java:

```
package com.questions;

import java.io.IOException;

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("/editsqlquestion")

public class EditSQLQuestionServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;
```

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**SOURCE CODE:**

```
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
    // Retrieve the question ID from the request parameter
```

```
    Long questionId = Long.parseLong(request.getParameter("id"));
```

```
    // Retrieve the SQL question from the database
```

```
    SQLQuestion sqlQuestion = SQLQuestionDAO.getSQLQuestionById(questionId);
```

```
    // Forward the question object to the JSP page for editing
```

```
    request.setAttribute("question", sqlQuestion);
```

```
    request.getRequestDispatcher("editsqlquestion.jsp").forward(request, response);
```

```
}
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
    // Retrieve the question ID from the request parameter
```

```
    Long questionId = Long.parseLong(request.getParameter("id"));
```

```
    // Retrieve the SQL question from the database
```

```
    SQLQuestion sqlQuestion = SQLQuestionDAO.getSQLQuestionById(questionId);
```

```
    // Update the SQL question with the form data
```

```
    sqlQuestion.setQuestion(request.getParameter("question"));
```

```
    sqlQuestion.setOption1(request.getParameter("option1"));
```

```
    sqlQuestion.setOption2(request.getParameter("option2"));
```

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```
        sqlQuestion.setOption3(request.getParameter("option3"));

        sqlQuestion.setOption4(request.getParameter("option4"));

        sqlQuestion.setCorrectOption(Integer.parseInt(request.getParameter("correctOption")));


        // Update the SQL question in the database

        SQLQuestionDAO.updateSQLQuestion(sqlQuestion);


        // Redirect to the SQL question list page

        response.sendRedirect("viewsqllist.jsp");
    }
}
```

SQLQuestion.java:

```
package com.questions;


import java.util.List;


import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;
import javax.persistence.criteria.CriteriaBuilder;
import javax.persistence.criteria.CriteriaQuery;
import javax.persistence.criteria.Root;
```

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```
import javax.transaction.HeuristicMixedException;

import javax.transaction.HeuristicRollbackException;

import javax.transaction.RollbackException;

import javax.transaction.SystemException;

import javax.transaction.Transaction;


import org.hibernate.Session;


import com.user.HibernateUtil;


@Entity
@Table(name = "sql_question")
public class SQLQuestion {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;


    private String question;

    private String option1;

    private String option2;

    private String option3;

    private String option4;

    private int correctOption;

    public Long getId() {

        return id;
    }
}
```

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```
    }

    public void setId(Long id) {

        this.id = id;

    }

    public String getQuestion() {

        return question;

    }

    public void setQuestion(String question) {

        this.question = question;

    }

    public String getOption1() {

        return option1;

    }

    public void setOption1(String option1) {

        this.option1 = option1;

    }

    public String getOption2() {

        return option2;

    }

    public void setOption2(String option2) {

        this.option2 = option2;

    }

    public String getOption3() {

        return option3;

    }
```



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**SOURCE CODE:**

```
    public void setOption3(String option3) {

        this.option3 = option3;

    }

    public String getOption4() {

        return option4;

    }

    public void setOption4(String option4) {

        this.option4 = option4;

    }

    public int getCorrectOption() {

        return correctOption;

    }

    public void setCorrectOption(int correctOption) {

        this.correctOption = correctOption;

    }

    public String formatOptions() {

        return option1 + ", " + option2 + ", " + option3 + ", " + option4;

    }

}
```

SQLQuestionDAO.java:

```
package com.questions;
```

```
import java.util.List;
```

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**SOURCE CODE:**

```
import javax.persistence.criteria.CriteriaBuilder;

import javax.persistence.criteria.CriteriaQuery;

import javax.persistence.criteria.Root;


import org.hibernate.Session;

import org.hibernate.Transaction;


import com.user.HibernateUtil;


public class SQLQuestionDAO {

    public static List<SQLQuestion> getAllSQLQuestions() {

        try (Session session = HibernateUtil.getSessionFactory().openSession()) {

            CriteriaBuilder builder = session.getCriteriaBuilder();

            CriteriaQuery<SQLQuestion> query = builder.createQuery(SQLQuestion.class);

            Root<SQLQuestion> root = query.from(SQLQuestion.class);

            query.select(root);


            return session.createQuery(query).getResultList();

        }

    }


    public static String formatOptions(SQLQuestion question) {

        String options = question.getOption1() + ", " + question.getOption2() + ", " +
question.getOption3() + ", "

            + question.getOption4();

        return options;

    }

}
```

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```
}
```

```
public static SQLQuestion getSQLQuestionById(Long questionId) {  
    try (Session session = HibernateUtil.getSessionFactory().openSession()) {  
        return session.get(SQLQuestion.class, questionId);  
    }  
    // Implement other methods for CRUD operations  
    // ...  
}  
  
public static void deleteSQLQuestion(Long questionId) {  
    try (Session session = HibernateUtil.getSessionFactory().openSession()) {  
        Transaction transaction = session.beginTransaction();  
  
        SQLQuestion question = session.get(SQLQuestion.class, questionId);  
        if (question != null) {  
            session.delete(question);  
        }  
  
        transaction.commit();  
    }  
}  
  
public static void updateSQLQuestion(SQLQuestion sqlQuestion) {
```

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```
try (Session session = HibernateUtil.getSessionFactory().openSession()) {  
  
    Transaction transaction = session.beginTransaction();  
  
    session.update(sqlQuestion);  
  
    transaction.commit();  
  
}  
  
}
```

SQLTestServlet.java:

```
package com.questions;
```

```
import java.io.IOException;
```

```
import java.util.List;
```

```
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("/sqlTestServlet")
```

```
public class SQLTestServlet extends HttpServlet {
```

```
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
        List<SQLQuestion> sqlQuestions = SQLQuestionDAO.getAllSQLQuestions();
```

```
        request.setAttribute("sqlQuestions", sqlQuestions);
```

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```
        request.getRequestDispatcher("sqlTest.jsp").forward(request, response);

    }

}
```

SubmitAnswerServlet.java:

```
package com.questions;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
```

```
@WebServlet("/submitAnswerServlet")
```

```
public class SubmitAnswerServlet extends HttpServlet {
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {
```

```
        Map<Long, Integer> userAnswers = new HashMap<>();
```

```
        // Get the submitted answers from the request parameters
```

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```
List<SQLQuestion> questionList = SQLQuestionDAO.getAllSQLQuestions();

for (SQLQuestion question : questionList) {

    Long questionId = question.getId();

    int selectedOption = Integer.parseInt(request.getParameter("answer" + questionId));

    userAnswers.put(questionId, selectedOption);

}

// Calculate the score

int score = calculateScore(userAnswers, questionList);

// Set the score as a request attribute and forward to a result page

request.setAttribute("score", score);

request.getRequestDispatcher("/sqlTestResult.jsp").forward(request, response);

}

private int calculateScore(Map<Long, Integer> userAnswers, List<SQLQuestion> questionList) {

    int score = 0;

    for (SQLQuestion question : questionList) {

        Long questionId = question.getId();

        int selectedOption = userAnswers.getOrDefault(questionId, -1);

        int correctOption = question.getCorrectOption();

        if (selectedOption == correctOption) {

            score++; // Increment score for each correct answer
```

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```
        }  
  
    }  
  
    return score;  
  
}  
  
}
```

ViewSQLQuestionServlet.java:

```
package com.questions;
```

```
import java.io.IOException;
```

```
import java.util.List;
```

```
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("/viewsqllist")
```

```
public class ViewSQLQuestionServlet extends HttpServlet {
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

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**SOURCE CODE:**

```
// Retrieve the list of SQL questions from the database

List<SQLQuestion> questionList = SQLQuestionDAO.getAllSQLQuestions();

// Forward the list to the JSP page for rendering

request.setAttribute("questionList", questionList);

request.getRequestDispatcher("viewsqllist.jsp").forward(request, response);

}

}
```

Package: Com.User:

Admin.java:

```
package com.user;
```

```
import javax.persistence.*;
```

```
@Entity
```

```
@Table(name = "admin")
```

```
public class Admin {
```

```
    @Id
```

```
    @GeneratedValue(strategy = GenerationType.IDENTITY)
```

```
    @Column(name = "id")
```

```
    private int id;
```

```
    @Column(name = "email")
```



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**SOURCE CODE:**

```
private String email;
```

```
@Column(name = "password")
```

```
private String password;
```

```
public int getId() {  
    return id;  
}
```

```
public void setId(int id) {  
    this.id = id;  
}
```

```
public String getEmail() {  
    return email;  
}
```

```
public void setEmail(String email) {  
    this.email = email;  
}
```

```
public String getPassword() {  
    return password;  
}
```

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**SOURCE CODE:**

```
        public void setPassword(String password) {  
  
            this.password = password;  
  
        }  
  
    }  
  
}
```

AdminDAO.java:

```
package com.user;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.SessionFactory;
```

```
import org.hibernate.query.Query;
```

```
public class AdminDAO {
```

```
    private SessionFactory sessionFactory;
```

```
    public AdminDAO() {
```

```
        sessionFactory = HibernateUtil.getSessionFactory();
```

```
    }
```

```
    public Admin validateAdmin(String email, String password) {
```

```
        try (Session session = sessionFactory.openSession()) {
```

```
            Query<Admin> query = session.createQuery("FROM Admin WHERE email = :email AND password  
= :password", Admin.class);
```

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**SOURCE CODE:**

```
        query.setParameter("email", email);

        query.setParameter("password", password);

        return query.uniqueResult();

    } catch (Exception e) {

        e.printStackTrace();

    }

    return null;

}

}
```

AdminLoginServlet.java:

```
package com.user;
```

```
import java.io.IOException;
```

```
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("/adminLoginServlet")
```

```
public class AdminLoginServlet extends HttpServlet {
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {
```

```
        String email = request.getParameter("email");
```

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**SOURCE CODE:**

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

```
AdminDAO adminDAO = new AdminDAO();
```

```
Admin admin = adminDAO.validateAdmin(email, password);
```

```
if (admin != null) {
```

```
    request.getSession().setAttribute("adminAuthenticated", true);
```

```
    response.sendRedirect("admindashboardpage.jsp");
```

```
} else {
```

```
    // Invalid admin credentials, display an error message or redirect to login page
```

```
    response.sendRedirect("adminlogin.jsp?error=invalidAdminCredentials");
```

```
}
```

```
}
```

```
}
```

DeleteUserServlet.java:

```
package com.user;
```

```
import java.io.IOException;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

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**SOURCE CODE:**

@WebServlet("/deleteuser")

public class DeleteUserServlet extends HttpServlet {

/\*\*

\*

\*/

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {

Long userId = Long.parseLong(request.getParameter("userId"));

UserDAO userDAO = new UserDAO();

userDAO.deleteUser(userId);

response.sendRedirect("viewuser.jsp");

}

}

EditUserServlet.java:

package com.user;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

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**SOURCE CODE:**

```
import javax.servlet.http.HttpServletResponse;
```

```
@WebServlet("/edituser")
```

```
public class EditUserServlet extends HttpServlet {
```

```
    /**
```

```
        *
```

```
        */
```

```
    private static final long serialVersionUID = 1L;
```

```
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
        Long userId = Long.parseLong(request.getParameter("userId"));
```

```
        UserDAO userDAO = new UserDAO();
```

```
        User user = userDAO.getUserById(userId); // to to userdao class call the method
```

```
        request.setAttribute("user", user);
```

```
        request.getRequestDispatcher("edituser.jsp").forward(request, response);
```

```
    }
```

```
}
```

HibernateUtil.java:

```
package com.user;
```

```
import org.hibernate.SessionFactory;
```

```
import org.hibernate.cfg.Configuration;
```

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**SOURCE CODE:**

```
public class HibernateUtil {

    private static final SessionFactory sessionFactory = buildSessionFactory();

    private static SessionFactory buildSessionFactory() {

        try {

            // Create the SessionFactory from hibernate.cfg.xml

            Configuration configuration = new Configuration();

            configuration.configure("hibernate.cfg.xml");

            return configuration.buildSessionFactory();

        } catch (Throwable ex) {

            // Handle any initial SessionFactory creation errors

            System.err.println("Initial SessionFactory creation failed: " + ex);

            throw new ExceptionInInitializerError(ex);

        }

    }

    public static SessionFactory getSessionFactory() {

        return sessionFactory;

    }

    public static void shutdown() {

        // Close caches and connection pools

        getSessionFactory().close();

    }

}
```

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**SOURCE CODE:**

LogoutServlet.java:

```
package com.user;
```

```
import java.io.IOException;
```

```
import javax.servlet.ServletException;
```

```
import javax.servlet.annotation.WebServlet;
```

```
import javax.servlet.http.HttpServlet;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpServletResponse;
```

```
import javax.servlet.http.HttpSession;
```

```
@WebServlet("/logoutServlet")
```

```
public class LogoutServlet extends HttpServlet {
```

```
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {
```

```
        HttpSession session = request.getSession();
```

```
        session.invalidate();
```

```
        response.sendRedirect("loggedout.jsp");
```

```
    }
```

```
}
```

RegisterServlet.java:

```
package com.user;
```



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**SOURCE CODE:**

```
import java.io.IOException;

import java.sql.Date;

import java.text.ParseException;

import java.text.SimpleDateFormat;

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("/registerServlet")

public class RegisterServlet extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws

ServletException, IOException {

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

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

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

        SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd");

        Date dob = null;

        try {

            dob = new Date(dateFormat.parse(request.getParameter("dob")).getTime());

        } catch (ParseException e) {

            e.printStackTrace();

        }

    }

}
```

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**SOURCE CODE:**

```
User user = new User();

user.setName(name);

user.setEmail(email);

user.setPassword(password);

user.setDob(dob);


UserDAO userDAO = new UserDAO();

userDAO.registerUser(user);


response.sendRedirect("userdashboard.jsp");
}
}
```

UpdateUserServlet.java:

```
package com.user;


import java.io.IOException;


import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

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**SOURCE CODE:**

@WebServlet("/updateuser")

public class UpdateUserServlet extends HttpServlet {

/\*\*

\*

\*/

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {

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

if (userIdParam != null && !userIdParam.isEmpty()) {

try {

Long userId = Long.parseLong(userIdParam);

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

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

UserDAO userDAO = new UserDAO();

User user = userDAO.getUserById(userId);

if (user != null) {

user.setName(name);

user.setEmail(email);

userDAO.updateUser(user);

response.sendRedirect("viewuser.jsp");

return;

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**SOURCE CODE:**

```
        }

        } catch (NumberFormatException e) {

            // Handle parsing error

        }

    }

    // Handle invalid userId or other errors
    response.sendRedirect("error.jsp");
}

}
```

User.java:

```
package com.user;
```

```
import java.sql.Date;
```

```
import javax.persistence.Entity;
```

```
import javax.persistence.GeneratedValue;
```

```
import javax.persistence.GenerationType;
```

```
import javax.persistence.Id;
```

```
import javax.persistence.Table;
```

```
@Entity
```

```
@Table(name = "users")
```

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**SOURCE CODE:**

```
public class User {

    @Id

    @GeneratedValue(strategy = GenerationType.IDENTITY)

    private Long id;

    private String name;

    private String email;

    private String password;

    private Date dob;

    public Long getId() {

        return id;

    }


    public void setId(Long id) {

        this.id = id;

    }


    public String getName() {

        return name;

    }


    public void setName(String name) {

        this.name = name;

    }


    public String getEmail() {
```

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**SOURCE CODE:**

```
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public Date getDob() {
        return dob;
    }

    public void setDob(Date dob) {
        this.dob = dob;
    }
}
```

UserDAO.java:

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**SOURCE CODE:**

```
package com.user;
```

```
import java.util.List;
```

```
import org.hibernate.Session;
```

```
import org.hibernate.Transaction;
```

```
import org.hibernate.query.Query;
```

```
public class UserDao {
```

```
    public void registerUser(User user) {
```

```
        Session session = HibernateUtil.getSessionFactory().openSession();
```

```
        Transaction transaction = session.beginTransaction();
```

```
        session.save(user);
```

```
        transaction.commit();
```

```
        session.close();
```

```
    }
```

```
    public User validateUser(String email, String password) {
```

```
        Session session = HibernateUtil.getSessionFactory().openSession();
```

```
        Query<User> query = session.createQuery("FROM User WHERE email = :email AND password = :password", User.class);
```

```
        query.setParameter("email", email);
```

```
        query.setParameter("password", password);
```

```
        User user = query.uniqueResult();
```

```
        session.close();
```

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**SOURCE CODE:**

```
    return user;
```

```
}
```

```
// ----- show the list of user -----
```

```
public List<User> getAllUsers() {
```

```
    Session session = HibernateUtil.getSessionFactory().openSession();
```

```
    Query<User> query = session.createQuery("FROM User", User.class);
```

```
    List<User> userList = query.list();
```

```
    session.close();
```

```
    return userList;
```

```
}
```

```
// ----- show the list of user -----
```

```
public User getUserById(Long userId) {
```

```
    Session session = HibernateUtil.getSessionFactory().openSession();
```

```
    User user = session.get(User.class, userId);
```

```
    session.close();
```

```
    return user;
```

```
}
```

```
// ----- Update the list of user -----
```

```
public void updateUser(User user) {
```

```
    Session session = HibernateUtil.getSessionFactory().openSession();
```

```
    Transaction transaction = session.beginTransaction();
```

```
    session.update(user);
```

```
    transaction.commit();
```



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**SOURCE CODE:**

```
        session.close();

    }

// ----- Delete the list of user -----

    public void deleteUser(Long userId) {

        Session session = HibernateUtil.getSessionFactory().openSession();

        Transaction transaction = session.beginTransaction();

        User user = session.get(User.class, userId);

        if (user != null) {

            session.delete(user);

        }

        transaction.commit();

        session.close();

    }

}
```

UserLoginServlet.java:

```
package com.user;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;
```

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**SOURCE CODE:**

```
import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

@WebServlet("/userloginServlet")

public class UserLoginServlet extends HttpServlet {

    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {

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

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

        UserDao userDao = new UserDao();

        User user = userDao.validateUser(email, password);

        if (user != null) {

            HttpSession session = request.getSession();

            session.setAttribute("name", user.getName());

            response.sendRedirect("userdashboard.jsp");

        } else {

            request.setAttribute("error", "Invalid email or password");

            request.getRequestDispatcher("userlogin.jsp").forward(request, response);

        }

    }

}
```

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**SOURCE CODE:**

Hibernate.cfg.xml:

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE hibernate-configuration PUBLIC

    "-//Hibernate/Hibernate Configuration DTD 3.0//EN"

    "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

    <session-factory>

        <property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>

        <property name="hibernate.connection.url">jdbc:mysql://localhost:3306/Register</property>

        <property name="hibernate.connection.username">root</property>

        <property name="hibernate.connection.password">Kiran@1312</property>

        <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>

        <mapping class="com.user.User"/>

        <mapping class="com.user.Admin"/>

        <mapping class="com.questions.SQLQuestion" />

    </session-factory>

</hibernate-configuration>
```

JSP FILES:

Edituser.jsp:

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

    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

```
<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1>Edit User</h1>

    <form action="updateuser" method="post">

        <input type="hidden" name="userId" value="${user.id}">

        <label>Name: </label>

        <input type="text" name="name" value="${user.name}">

        <br>

        <label>Email: </label>

        <input type="email" name="email" value="${user.email}">

        <br>

        <input type="submit" value="Update">

    </form>

</body>

</html>
```

Addquestion.jsp:

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

<!DOCTYPE html>

<%@ include file="header.jsp" %>

<html>
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

<head>

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

<title>Insert title here</title>

<style>

table {

width: 100%;

border-collapse: collapse;

}

th, td {

border: 1px solid black;

padding: 8px;

text-align: left;

}

tr:nth-child(even) {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h1>Add Questions to Quiz</h1>

<h2>Subjects:</h2>

<table>

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
<thead>

    <tr>

        <th>Subject</th>

        <th>Add Question</th>

        <th>View Question</th>

    </tr>

</thead>

<tbody>

    <tr>

        <td>SQL</td>

        <td><a href="addquestionsql.jsp">Add SQL Question</a></td>

        <td><a href="viewsqllist.jsp">View SQL Questions</a></td>

    </tr>

</tbody>

</table>

</body>

</html>
```

Addquestionsql.jsp:

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

<%@ include file="header.jsp" %>

<!DOCTYPE html>
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

```
<html>
```

```
<head>
```

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

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<h1>Add SQL Questions</h1>
```

```
<form action="addsqlquestion" method="post">
```

```
<label>Question:</label>
```

```
<input type="text" name="question">
```

```
<br>
```

```
<br>
```

```
<label>Option 1:</label>
```

```
<input type="text" name="option1">
```

```
<br>
```

```
<br>
```

```
<label>Option 2:</label>
```

```
<input type="text" name="option2">
```

```
<br>
```

```
<br>
```

```
<label>Option 3:</label>
```

```
<input type="text" name="option3">
```

```
<br>
```

```
<br>
```

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**SOURCE CODE:**

```
<label>Option 4:</label>

<input type="text" name="option4">

<br>

<br>

<label>Correct Option:</label>

<input type="text" name="correctOption">

<br>

<br>

<input type="submit" value="Add Question">

</form>

</body>

</html>
```

Admindashboardpage.jsp:

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

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1>Welcome, Admin!</h1>
```



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**SOURCE CODE:**

```
<h3><a href="addquestion.jsp">Add Questions to quiz</a></h3>
```

```
<h3><a href="viewuser.jsp">View User List </a></h3>
```

```
<br>
```

```
<br>
```

```
</body>
```

```
</html>
```

Adminlogin.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>
```

```
<style>
```

```
    body {
```

```
        display: flex;
```

```
        justify-content: left;
```

```
        align-items: left;
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
    height: 100vh;

}

h1 {

    text-align: left;

}

form {

    text-align: left;

}

input[type="email"],
input[type="password"] {

    width: 100%;

    padding: 10px;

    margin-bottom: 10px;

}

</style>

</head>

<body>

    <div align="left">

        <h1>Admin Login</h1>

        <form action="adminLoginServlet" method="post">
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

```
Email: <input type="email" name="email"><br>

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

<br>

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

</form> <br>

<h3><a href="index.jsp" class="button">Main</a></h3>

</div>

</body>

</html>
```

Editsqlquestion.jsp:

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

<%@ page import="com.questions.SQLQuestion" %>


<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1>Edit SQL Question</h1>

<form action="editsqlquestion" method="post">
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

```
<input type="hidden" name="id" value="<%= ((SQLQuestion)
request.getAttribute("question")).getId() %>">

<label>Question:</label>

<input type="text" name="question" value="<%= ((SQLQuestion)
request.getAttribute("question")).getQuestion() %>">

<br>

<label>Option 1:</label>

<input type="text" name="option1" value="<%= ((SQLQuestion)
request.getAttribute("question")).getOption1() %>">

<br>

<label>Option 2:</label>

<input type="text" name="option2" value="<%= ((SQLQuestion)
request.getAttribute("question")).getOption2() %>">

<br>

<label>Option 3:</label>

<input type="text" name="option3" value="<%= ((SQLQuestion)
request.getAttribute("question")).getOption3() %>">

<br>

<label>Option 4:</label>

<input type="text" name="option4" value="<%= ((SQLQuestion)
request.getAttribute("question")).getOption4() %>">

<br>

<label>Correct Option:</label>

<input type="number" name="correctOption" value="<%= ((SQLQuestion)
request.getAttribute("question")).getCorrectOption() %>">

<br>

<input type="submit" value="Update">

</form>
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
<a href="viewsqlist.jsp">Back to List</a>
```

```
</body>
```

```
</html>
```

Edituser.jsp:

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

```
    pageEncoding="ISO-8859-1"%><%@ include file="header.jsp" %><%@ include file="header.jsp" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
<title>Insert title here</title>
```

```
</head>
```

```
<body>
```

```
<h1>Edit User</h1>
```

```
<form action="updateuser" method="post">
```

```
    <input type="hidden" name="userId" value="${user.id}">
```

```
    <label>Name: </label>
```

```
    <input type="text" name="name" value="${user.name}">
```

```
    <br>
```

```
    <label>Email: </label>
```

```
    <input type="email" name="email" value="${user.email}">
```

```
    <br>
```

```
    <input type="submit" value="Update">
```

```
</form>
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

</body>

</html>

Error.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>Something error happen!</h1>
```

```
</body>
```

```
</html>
```

Header.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>
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

</head>

<body>

<a href="logoutServlet">Logout</a>

<hr>

</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>Online Quiz Portal</title>
```

```
<style>
```

```
body {
```

```
h1 {
```

```
margin-top: 50px;
```

```
}
```

```
h3 {
```

```
margin-top: 30px;
```

```
}
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
        ul {  
            list-style-type: none;  
            padding: 0;  
        }  
  
        ul li {  
            display: inline-block;  
            margin: 10px;  
        }  
  
        ul li a {  
            text-decoration: none;  
        }  
    </style>  
</head>  
<body>  
    <h1>Online Quiz Portal</h1>  
    <h3><a href="userregister.jsp">User Registration</a></h3>  
    <h3><a href="userlogin.jsp">User Login</a></h3>  
    <h3><a href="adminlogin.jsp">Admin Login</a></h3>  
</body>  
</html>
```



**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

Loggedout.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>Logged Out</title>
```

```
</head>
```

```
<body>
```

```
<h1>Logged Out</h1>
```

```
    <b>Your session has terminated.</b><br>
```

```
<a href="index.jsp">Login again</a>
```

```
</body>
```

```
</html>
```

Sqltest.jsp:

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

```
<%@ page import="com.questions.SQLQuestion" %><%@ include file="header.jsp" %>
```

```
<%@ page import="com.questions.SQLQuestionDAO" %>
```

```
<%@ page import="java.util.List" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

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

```
<title>SQL Test</title>
```

```
</head>
```

```
<body>
```

```
<h1 >Online Quiz Portal</h1>
```

```
<h3>SQL Test</h3>
```

```
<form action="submitAnswerServlet" method="post">
```

```
<%
```

```
List<SQLQuestion> questionList = SQLQuestionDAO.getAllSQLQuestions();
```

```
if (questionList != null) {
```

```
    for (SQLQuestion question : questionList) { %>
```

```
        <h3><%= question.getQuestion() %></h3>
```

```
        <input type="hidden" name="questionId" value="<%= question.getId() %>">
```

```
        <input type="radio" name="answer<%= question.getId() %>" value="1"> <%=  
question.getOption1() %><br>
```

```
        <input type="radio" name="answer<%= question.getId() %>" value="2"> <%=  
question.getOption2() %><br>
```

```
        <input type="radio" name="answer<%= question.getId() %>" value="3"> <%=  
question.getOption3() %><br>
```

```
        <input type="radio" name="answer<%= question.getId() %>" value="4"> <%=  
question.getOption4() %><br>
```

```
        <hr>
```

```
    <% } } %>
```

```
    <input type="submit" value="Submit">
```

```
</form>
```

```
<br>
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

```
<br>
```

```
<form action="userdashboard.jsp" method="get">
```

```
    <input type="submit" value="Back to Dashboard">
```

```
</form>
```

```
</body>
```

```
</html>
```

Sqltestresult.jsp:

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

```
<!DOCTYPE html><%@ include file="header.jsp" %>
```

```
<html>
```

```
<head>
```

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

```
    <title>SQL Test Result</title>
```

```
</head>
```

```
<body>
```

```
    <h1>SQL Test Result</h1>
```

```
    <p>Your score: <%= request.getAttribute("score") %></p>
```

```
    <a href="userdashboard.jsp">Back to Dashboard</a>
```

```
</body>
```

```
</html>
```

Userdashboard.jsp:

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

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

```
<%@ include file="header.jsp" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
    <title>Dashboard</title>
```

```
    <style>
```

```
        .container {
```

```
            max-width: 800px;
```

```
            margin: 0 auto;
```

```
            padding: 20px;
```

```
        }
```

```
        h2 {
```

```
            text-align: left;
```

```
        }
```

```
        h1{
```

```
            text-align: left;
```

```
        }
```

```
        .welcome-message {
```

```
            text-align: left;
```

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**SOURCE CODE:**

```
        margin-bottom: 20px;

    }

    .action-link {

        display: block;

        margin: 0 auto 10px;

        text-align: left;

    }

    .logout-form {

        text-align: left;

    }

</style>
</head>
<body>

    <div class="container">

        <h1>Online Quiz Portal</h1>

        <h2>Welcome to the User Dashboard</h2>

        <p class="welcome-message">Welcome, <%= session.getAttribute("name") %>!</p>

        <button class="action-link" onclick="window.location.href='sqlTestServlet'">Take SQL
Test</button>

    </div>

</body>
</html>
```

Userlogin.jsp:

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
<%@ 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>
```

```
<style>
```

```
    body {
```

```
        display: flex;
```

```
        justify-content: left;
```

```
        align-items: left;
```

```
        height: 100vh;
```

```
    }
```

```
    h2 {
```

```
        text-align: left;
```

```
    }
```

```
    form {
```

```
        text-align: left;
```

```
    }
```

```
    input[type="email"],
```

```
    input[type="password"] {
```

```
        width: 100%;
```

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
padding: 10px;
```

```
margin-bottom: 10px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div align="center">
```

```
<h1>Online Quiz Portal</h1>
```

```
<h2>User Login</h2>
```

```
<form action="userloginServlet" method="post">
```

```
Email: <input type="email" name="email"><br>
```

```
Password: <input type="password" name="password"><br>
```

```
<br>
```

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

```
</form> <br>
```

```
<h3><a href="index.jsp" class="button">Main</a></h3>
```

```
</div>
```

```
</body>
```

```
</html>
```

Userquizdetails.jsp:

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

```
pageEncoding="ISO-8859-1"%><%@ include file="header.jsp" %>
```

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**SOURCE CODE:**

```
<%@ page import="com.user.User" %>

<%@ page import="com.user.UserDAO" %>

<%@ page import="java.util.List" %>

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<h1>Admin Dashboard</h1>

<table>

<tr>

<th>User ID</th>

<th>Name</th>

<th>Email</th>

<th>Score</th>

</tr>

<%

UserDAO userDAO = new UserDAO();

List<User> userList = userDAO.getAllUsers();

if (userList != null) {

for (User user : userList) { %>

<tr>

<td><%= user.getId() %></td>
```



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**SOURCE CODE:**

```
<td><%= user.getName() %></td>

<td><%= user.getEmail() %></td>

<td><%= request.getAttribute("score") %></td>

</tr>

<% } } %>

</table>

</body>

</html>
```

Userregister.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>Registration Page</title>

<style>

body {

display: flex;

justify-content: left;

align-items: left;

height: 100vh;

}

h1 {

margin-top: 50px;
```

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**SOURCE CODE:**

```
}
```

```
h2 {
```

```
    text-align: left;
```

```
}
```

```
form {
```

```
    text-align: left;
```

```
}
```

```
table {
```

```
    width: 80%;
```

```
}
```

```
input[type="text"],
```

```
input[type="email"],
```

```
input[type="password"],
```

```
input[type="date"] {
```

```
    width: 100%;
```

```
    padding: 10px;
```

```
    margin-bottom: 10px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

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**SOURCE CODE:**

```
<div align="center">

<h1>Online Quiz Portal</h1>

<h2>Registration Page</h2>

<form action="registerServlet" method="POST">

  <table>

    <tr>

      <td><input type="text" name="name" placeholder="Name"></td>

    </tr>

    <tr>

      <td><input type="email" name="email" placeholder="Email"></td>

    </tr>

    <tr>

      <td><input type="password" name="password" placeholder="Password"></td>

    </tr>

    <tr>

      <td><input type="date" name="dob" placeholder="Date of Birth"></td>

    </tr>

  </table>

  <br>

  <input type="submit" value="Register"> <br><br> <h3><a href="index.jsp">Main</a></h3>

</form>

</div>

</body>

</html>
```

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**SOURCE CODE:**

Viewsqllist.jsp:

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

```
<%@ page import="com.questions.SQLQuestion" %><%@ include file="header.jsp" %>
```

```
<%@ page import="com.questions.SQLQuestionDAO" %>
```

```
<%@ page import="java.util.List" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
<title>View SQL Questions</title>
```

```
<style>
```

```
    table {
```

```
        width: 100%;
```

```
        border-collapse: collapse;
```

```
    }
```

```
    th, td {
```

```
        border: 1px solid black;
```

```
        padding: 8px;
```

```
        text-align: left;
```

```
    }
```

```
    tr:nth-child(even) {
```

```
        background-color: #f2f2f2;
```

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**SOURCE CODE:**

```
}

</style>

</head>

<body>

    <h1>View SQL Questions</h1>

    <table>

        <thead>

            <tr>

                <th>ID</th>

                <th>Question</th>

                <th>Options</th>

                <th>Correct Option</th>

                <th>Action</th>

            </tr>

        </thead>

        <tbody>

            <%

                SQLQuestionDAO sqlQuestionDAO = new SQLQuestionDAO();

                List<SQLQuestion> questionList = sqlQuestionDAO.getAllSQLQuestions();

                for (SQLQuestion question : questionList) { %>

                    <tr>

                        <td><%= question.getId() %></td>

                        <td><%= question.getQuestion() %></td>

                        <td><%= question.getOption1() %>, <%= question.getOption2() %>, <%=
question.getOption3() %>, <%= question.getOption4() %></td>

                        <td><%= question.getCorrectOption() %></td>

                    </tr>

                } %>

            <%>

        </tbody>

    </table>

</body>

</html>
```

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**SOURCE CODE:**

```
<td>

    <a href="editsqlquestion?id=<%= question.getId() %>">Edit</a>

    <a href="deletesqlquestion?id=<%= question.getId() %>">Delete</a>

</td>

</tr>

<% } %>

</tbody>

</table>

<br> <br>

<a href="admindashboardpage.jsp">Go Back Admin Dashboard</a>

</body>

</html>
```

Viewuser.jsp:

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

<%@ page import="com.user.User"%>

<%@ page import="com.user.UserDAO"%>

<%@ page import="java.util.List"%><%@ include file="header.jsp" %>

<!DOCTYPE html>

<html>

<head>

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

<title>User List</title>
```

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

`<style>`

`table {`

`width: 100%;`

`border: 1px solid black;`

`}`

`th, td {`

`border: 1px solid black;`

`padding: 8px;`

`text-align: left;`

`}`

`tr:nth-child(even) {`

`background-color: #f2f2f2;`

`}`

`tr:hover {`

`background-color: #e6e6e6;`

`}`

`</style>`

`</head>`

`<body>`

`<h1>User List</h1>`

`<table>`

`<thead>`

**KIRANKUMAR D NATIKAR**

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**SOURCE CODE:**

```
<tr>

    <th>ID</th>

    <th>Name</th>

    <th>Email</th>

    <th>Date of Birth</th>

    <th>Action</th>

</tr>

</thead>

<tbody>

    <%

        UserDao userDao = new UserDao();

        List<User> userList = userDao.getAllUsers();

        for (User user : userList) { %>

            <tr>

                <td><%= user.getId() %></td>

                <td><%= user.getName() %></td>

                <td><%= user.getEmail() %></td>

                <td><%= user.getDob() %></td>

                <td>

                    <a href="edituser?userId=<%= user.getId() %>">Edit</a>

                    <a href="deleteuser?userId=<%= user.getId() %>">Delete</a>

                </td>

            </tr>

            <% } %>

        </tbody>
```



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**SOURCE CODE:**

</table>

<br> <br>

<a href="admindashboardpage.jsp">Go Back to Admin Dashboard</a>

</body>

</html>

**MYSQLCODE:**

create database Register;

USE register;

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255),

email VARCHAR(255),

password VARCHAR(255),

dob DATE

);

select \*from users;

CREATE TABLE admin (

id INT AUTO\_INCREMENT PRIMARY KEY,

email VARCHAR(255) NOT NULL,

password VARCHAR(255) NOT NULL

);

INSERT INTO admin (email, password)

**KIRANKUMAR D NATIKAR**

**EMPID: 2576955**

**SOURCE CODE:**

VALUES ('Kirankumar@gmail.com', 'kiran');

```
CREATE TABLE sql_question (  
    id INT PRIMARY KEY AUTO_INCREMENT,  
    question VARCHAR(255),  
    option1 VARCHAR(255),  
    option2 VARCHAR(255),  
    option3 VARCHAR(255),  
    option4 VARCHAR(255),  
    correctOption VARCHAR(255)  
);  
  
select * from sql_question ;
```