Phase-End Project

Railway Crossing Status

- **Code**
- ✓ **Database Code**

```sql
CREATE DATABASE railway;


USE railway;


CREATE TABLE user (
    uname VARCHAR(45) NOT NULL,
    email VARCHAR(45) NOT NULL,
    password VARCHAR(45) NOT NULL,
    PRIMARY KEY (uname)
);


CREATE TABLE admin (
    uname VARCHAR(45) NOT NULL,
    password VARCHAR(45) NOT NULL,
    PRIMARY KEY (uname)
);


INSERT INTO admin VALUES ('Admin', '12345');


CREATE TABLE railway.adminhome (
    id INT NOT NULL AUTO_INCREMENT,
    Name VARCHAR(45) NOT NULL,
    Address VARCHAR(45) NOT NULL,
    Landmark VARCHAR(45) NOT NULL,
    Trainschedule TIME NOT NULL,
    pname VARCHAR(45) NOT NULL,
```

```
    status VARCHAR(45) NOT NULL,

    UNIQUE INDEX id_UNIQUE (id) VISIBLE,

    PRIMARY KEY (id)
);


CREATE TABLE favorites (

    id INT PRIMARY KEY,

    Name VARCHAR(255),

    Address VARCHAR(255),

    Landmark VARCHAR(255),

    Trainschedule VARCHAR(255),

    pname VARCHAR(255),

    status VARCHAR(255)
);


select * from user;
```

✓ **AdminLogin.java**

```java
package adminlogin;

import java.io.IOException;

import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/AdminLogin")
public class AdminLogin extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```java
    public AdminLogin() {
        super();
    }

protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
try{
    PrintWriter out= response.getWriter();
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection
    con=DriverManager.getConnection("jdbc:mysql://localhost:3
306/railway","root","Kalyan@123");
    String uname = request.getParameter("uname");
    String pass = request.getParameter("password");
    PreparedStatement ps = con.prepareStatement("SELECT uname
FROM admin WHERE uname=? AND password=?");
    ps.setString(1,uname);
    ps.setString(2,pass);
    ResultSet rs = ps.executeQuery();
    if(rs.next()) {
        RequestDispatcher rd =
request.getRequestDispatcher("adminhome.jsp");
        rd.forward(request, response);
        }
    else {
        out.println("<font color=red size=4>Login
Failed!!!<br>");
        out.println("<font color=red size=2>Invalid user
name or password<br>");
        out.println("<a href=login.jsp>Try Again</a>");
        }
    }catch (ClassNotFoundException e) {
        e.printStackTrace();
        } catch (SQLException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
            }
}
}
```

✓ **AddToFavorite.java**

```java
package favorite;

import java.io.IOException;

import java.sql.Connection;
import java.sql.DriverManager;
```

```java
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/AddToFavorite")
public class AddToFavorite extends HttpServlet {
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
        String itemId = request.getParameter("id");
        // Perform necessary operations to add the item to
favorites
        try {
            // Establish database connection
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection =

    DriverManager.getConnection("jdbc:mysql://localhost:3306/
railway", "root", "Kalyan@123");
            // Prepare SQL statement to insert the favorite
crossing
            String sql = "INSERT INTO favorites (id, Name,
Address, Landmark, Trainschedule, pname, status) "
            + "SELECT id, Name, Address, Landmark,
Trainschedule, pname, status "
            + "FROM adminhome WHERE id = ?";
            PreparedStatement statement =
connection.prepareStatement(sql);
            statement.setString(1, itemId);
            // Execute the SQL statement
            int rowsAffected = statement.executeUpdate();
            // Close the database connection
            statement.close();
            connection.close();
            // Redirect the user back to the user home page
            response.sendRedirect("userhome.jsp");
            } catch (ClassNotFoundException | SQLException
e) {
                e.printStackTrace();
                }
        }
    }
```

✓ DeleteRecord.java

```java
package favorite;

import java.io.IOException;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/DeleteRecord")
public class DeleteRecord extends HttpServlet {
    protected void doGet(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {
        String id = request.getParameter("id");
// Check if ID is provided
        if (id != null && !id.isEmpty()) {
            try {
// Database connection details
                String url =
"jdbc:mysql://localhost:3306/railway";
                String user = "root";
                String password = "Kalyan@123";
// Create database connection
                Connection conn =
DriverManager.getConnection(url, user, password);
// Prepare and execute the delete statement
                String sql = "DELETE FROM adminhome WHERE
id = ?";
                PreparedStatement pstmt =
conn.prepareStatement(sql);
                pstmt.setString(1, id);
                pstmt.executeUpdate();
// Close resources
                pstmt.close();
                conn.close();
// Redirect back to delete.jsp with success message
                response.sendRedirect("adminhome.jsp");
            } catch (SQLException e) {
                e.printStackTrace();
// Handle database errors

    response.sendRedirect("delete.jsp?error=true");
            }
```

```java
            } else {
// ID is not provided, redirect back to delete.jsp with error
message
                response.sendRedirect("delete.jsp?error=true");
            }
        }
}
```

✓ **RemoveFromFavorite.java**

```java
package favorite;

import java.io.IOException;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

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

@WebServlet("/RemoveFromFavorite")
public class RemoveFromFavorite extends HttpServlet {
    protected void doPost(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {
        String id = request.getParameter("id");

        // Perform necessary operations to remove the item
from favorites
        try {
            // Establish database connection
            Class.forName("com.mysql.jdbc.Driver");
            Connection connection =
DriverManager.getConnection("jdbc:mysql://localhost:3306/railw
ay", "root", "Kalyan@123");

            // Prepare SQL statement to delete the favorite
crossing
            String sql = "DELETE FROM favorites WHERE id =
?";

            PreparedStatement statement =
connection.prepareStatement(sql);
            statement.setString(1, id);

            // Execute the SQL statement
```

```java
            int rowsAffected = statement.executeUpdate();

            // Close the database connection
            statement.close();
            connection.close();

            // Redirect the user back to the user home page
            response.sendRedirect("favorite.jsp");
        } catch (ClassNotFoundException | SQLException e) {
            e.printStackTrace();
        }
    }
}
```

✓ Login.java

```java
package login;

import java.io.IOException;

import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/Login")
public class Login extends HttpServlet {
    private static final long serialVersionUID = 1L;

    public Login() {
        super();

    }
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException,
IOException {
try {
    PrintWriter out= response.getWriter();
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection
    con=DriverManager.getConnection("jdbc:mysql://localhost:3
306/railway","root","Kalyan@123");
```

```java
        String email = request.getParameter("email");
        String pass = request.getParameter("password");
        PreparedStatement ps = con.prepareStatement("SELECT email
FROM user WHERE email=? AND password=?");
        ps.setString(1,email);
        ps.setString(2,pass);
        ResultSet rs = ps.executeQuery();
        if(rs.next()) {
            RequestDispatcher rd =
request.getRequestDispatcher("userhome.jsp");
            rd.forward(request, response);
            }
        else {
            out.println("<font color=red size=4>Login
Failed!!!<br>");
            out.println("<font color=red size=2>Invalid user
name or password<br>");
            out.println("<a href=login.jsp>Try Again</a>");
            }
        }catch (ClassNotFoundException e) {
            e.printStackTrace();
            } catch (SQLException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
                }
}

    private PreparedStatement prepareStatement(String string)
{
// TODO Auto-generated method stub
        return null;
    }
}
```

✓ **Member.java**

```java
package register;

public class Member {
    private String uname, password, email;

    public Member() {
        super();
    }

    public Member(String uname, String password, String
email) {
        super();
        this.uname = uname;
        this.password = password;
```

```java
            this.email = email;
      }

      public String getUname() {
            return uname;
      }

      public void setUname(String uname) {
            this.uname = uname;
      }

      public String getPassword() {
            return password;
      }

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

      public String getEmail() {
            return email;
      }

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

✓ Register.java

```java
package register;

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;

/**
 * Servlet implementation class Register
 */
@WebServlet("/Register")
public class Register extends HttpServlet {
      private static final long serialVersionUID = 1L;

      /**
       * @see HttpServlet#HttpServlet()
       */
      public Register() {
```

```java
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse
     *      response)
     */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {
// TODO Auto-generated method stub
        response.getWriter().append("Served at:
").append(request.getContextPath());
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse
     *      response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response)
            throws ServletException, IOException {
// TODO Auto-generated method stub
        String uname = request.getParameter("uname");
        String email = request.getParameter("email");
        String password = request.getParameter("password");
        Member user = new Member(uname, email, password);
        RegisterDao rDao = new RegisterDao();
        String result = rDao.insert(user);
        response.getWriter().print(result);
    }
}
```

✓ **RegisterDao.java**

```java
package register;

import java.sql.Connection;

import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

public class RegisterDao {
    private String dbUrl =
"jdbc:mysql://localhost:3306/railway";
    private String dbUname = "root";
```

```java
    private String dbPassword = "Kalyan@123";
    private String dbDriver = "com.mysql.cj.jdbc.Driver";

    public void loadDriver(String dbDriver) {
        try {
            Class.forName(dbDriver);
        } catch (ClassNotFoundException e) {
// TODO Auto-generated catch block
            e.printStackTrace();
        }
    }

    public Connection getConnection() {
        Connection con = null;
        try {
            con = DriverManager.getConnection(dbUrl,
dbUname, dbPassword);
        } catch (SQLException e) {
// TODO Auto-generated catch block
            e.printStackTrace();
        }
        return con;
    }

    public String insert(Member member) {
        loadDriver(dbDriver);
        Connection con = getConnection();
        String result = "Data entered successfully";
        String sql = "insert into user values(?,?,?)";
        PreparedStatement ps;
        try {
            ps = con.prepareStatement(sql);
            ps.setString(1, member.getUname());
            ps.setString(2, member.getPassword());
            ps.setString(3, member.getEmail());
            ps.executeUpdate();
        } catch (SQLException e) {
// TODO Auto-generated catch block
            e.printStackTrace();
            result = "Data not entered";
        }
        return result;
    }
}
```

✓ addrail.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Add Railway Crossing</title>
<style>
body {
    text-align: center;
}

h2 {
    color: #333;
}

form {
    margin-top: 20px;
}

table {
    margin: 0 auto;
}

td {
    padding: 5px;
}

input[type="text"], input[type="time"], input[type="radio"] {
    padding: 5px;
    border-radius: 4px;
    border: 1px solid #ccc;
}

input[type="submit"]  {
    padding: 5px 10px;
    background-color: #f2f2f2;
    border-radius: 4px;
    border: none;
    cursor: pointer;
}

input[type="submit"]:hover {
    background-color: #ddd;
}
</style>
```

```html
</head>
<body>
    <h2>Add Railway Crossing</h2>
    <form action="RailCrossing" method="POST">
        <table>
            <tr>
                <td>Name:</td>
                <td><input type="text" name="Name"
required></td>
            </tr>
            <tr>
                <td>Address:</td>
                <td><input type="text" name="Address"
required></td>
            </tr>
            <tr>
                <td>Landmark:</td>
                <td><input type="text" name="Landmark"
required></td>
            </tr>
            <tr>
                <td>Time Schedule:</td>
                <td><input type="time"
name="Trainschedule" required></td>
            </tr>
            <tr>
                <td>Person In-Charge:</td>
                <td><input type="text" name="pname"
required></td>
            </tr>
            <tr>
                <td>Status:</td>
                <td><input type="radio" name="status"
value="open" required>
                        open <input type="radio"
name="status" value="closed" required>
                        closed</td>
            </tr>
            <tr>
                <td><input type="submit" value="Add
Crossing"></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

✓ adminhome.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Admin Home</title>
<style>
body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
    margin: 0;
    padding: 0;
}

h2 {
    text-align: center;
    color: #333;
}

a {
    color: #333;
    text-decoration: none;
}

table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 10px;
    text-align: left;
    border-bottom: 1px solid #ddd;
}

th {
    background-color: #f2f2f2;
}

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

```css
        background-color: #f9f9f9;
}

.actions {
        display: flex;
        justify-content: space-around;
}

.actions form {
        display: inline-block;
}

input[type="submit"]  {
        padding: 6px 12px;
        background-color: #4CAF50;
        color: #fff;
        border: none;
        border-radius: 4px;
        cursor: pointer;
}

input[type="submit"]:hover {
        background-color: #45a049;
}

.actions {
        white-space: nowrap;
}

.actions form {
        margin-right: 5px;
}

.nav-links {
        display: flex;
        justify-content: space-around;
        margin-bottom: 20px;
}

.nav-links a {
        padding: 10px 10px;
        text-decoration: none;
        color: #333;
        background-color: #f2f2f2;
        border-radius: 4px;
        transition: background-color 0.3s ease;
}

.nav-links a:hover {
        background-color: #ddd;
}
```

```html
</style>
</head>
<body>
    <h2>Admin Home</h2>
    <div class="nav-links">
        <a href="adminhome.jsp">Home</a> <a
href="addrail.jsp">Add Railway
            Crossing</a> <a href="search.jsp">Search
Crossing</a> <a href="index.jsp">Logout</a>
    </div>
    <sql:setDataSource var="snapshot"
driver="com.mysql.cj.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/railway"
user="root" password="Kalyan@123" />

    <sql:query dataSource="${snapshot}" var="result">
        SELECT * from adminhome;
        </sql:query>

    <table border="1" width="100%">
        <tr>
            <th>Sr.No</th>
            <th>Name</th>
            <th>Address</th>
            <th>Landmark</th>
            <th>Time Schedule</th>
            <th>Person In-Charge</th>
            <th>Status</th>
            <th>Action</th>
        </tr>

        <c:forEach var="row" items="${result.rows}">
            <tr>
                <td><c:out value="${row.id}" /></td>
                <td><c:out value="${row.Name}" /></td>
                <td><c:out value="${row.Address}" /></td>
                <td><c:out value="${row.Landmark}" /></td>
                <td><c:out value="${row.Trainschedule}"
/></td>
                <td><c:out value="${row.pname}" /></td>
                <td><c:out value="${row.status}" /></td>
                <td>
                    <!-- Action buttons for each row -->
                    <form action="update.jsp"
method="GET">
                        <input type="hidden" name="id"
value="${row.id}" /> <input
                            type="submit"
value="Update" />
                    </form>
```

```
                              <form action="delete.jsp"
method="POST">
                                    <input type="hidden" name="id"
value="${row.id}" /> <input
                                          type="submit"
value="Delete" />
                              </form>
                        </td>
                  </tr>
            </c:forEach>
      </table>

</body>
</html>
```

✓ **adminlogin.jsp**

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
      pageEncoding="UTF-8"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>User Login</title>
<style>
body {
      text-align: center;
}

h2 {
      color: #333;
}

form {
      margin-top: 20px;
}

table {
      margin: 0 auto;
}

td {
      padding: 5px;
}

input[type="text"], input[type="password"] {
      padding: 5px;
```

```css
        border-radius: 4px;
        border: 1px solid #ccc;
    }

    input[type="submit"]  {
        padding: 5px 10px;
        background-color: #f2f2f2;
        border-radius: 4px;
        border: none;
        cursor: pointer;
    }

    input[type="submit"]:hover {
        background-color: #ddd;
    }

    a {
        color: blue;
        text-decoration: none;
    }
    </style>
    </head>
    <body>
        <div align=center>
            <h2>Admin Login</h2>
            <form action="AdminLogin" method="POST">
                <table>
                    <tr>
                        <td>Name:</td>
                        <td><input type="text" name="uname"
placeholder="UserName"
                            required></td>
                    </tr>
                    <tr>
                        <td>Password:</td>
                        <td><input type="password"
name="password"
                            placeholder="password"
required></td>
                    </tr>
                    <tr>
                        <td></td>
                        <td><input type="submit"
value="Login"><br>
                            <br>
                    </tr>
                </table>
            </form>
        </div>
    </body>
    </html>
```

✓ delete.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Delete Crossing Record</title>
<style>
body {
    text-align: center;
}

h2 {
    color: #333;
}

form {
    display: inline-block;
    text-align: left;
}

label {
    display: block;
    margin-bottom: 10px;
}

input[type="text"], input[type="submit"] {
    padding: 8px;
    border-radius: 4px;
    border: 1px solid #ccc;
}

input[type="submit"] {
    background-color: #f2f2f2;
    color: #333;
    transition: background-color 0.3s ease;
}

input[type="submit"]:hover {
    background-color: #ddd;
}
```

```
</style>
</head>
<body>
    <h2>Delete Crossing Record</h2>
    <sql:setDataSource var="snapshot"
driver="com.mysql.cj.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/railway"
user="root"
        password="Kalyan@123" />

    <c:if test="${not empty param.id}">
        <sql:query dataSource="${snapshot}" var="result">
          SELECT * FROM adminhome WHERE id = ?
          <sql:param value="${param.id}" />
        </sql:query>

        <c:if test="${not empty result.rows}">
            <c:forEach var="row" items="${result.rows}">

                <form action="DeleteRecord" method="GET">
                    <input type="hidden" name="id"
value="${row.id}" /> <label
                        for="id">Record Sr.No:</label>
<input type="text" id="id"
                        name="id" value="${row.id}"
required><br>

                    <br> <input type="submit"
value="Confirm Delete">
                </form>
            </c:forEach>
        </c:if>
    </c:if>
</body>
</html>
```

✓ favorite.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql"
prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
```

```jsp
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Favorite Crossing List</title>
</head>
<body>
    <h2>Favorite Crossing List</h2>
    <a href="userhome.jsp">Home</a>
    <br>
    <a href="search.jsp">Search Crossing</a>
    <br>
    <br>

    <sql:setDataSource var="snapshot"
driver="com.mysql.cj.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/railway"
user="root"
        password="Kalyan@123" />

    <sql:query dataSource="${snapshot}" var="favorites">
        SELECT * FROM favorites;
    </sql:query>

    <c:if test="${not empty favorites.rows}">
        <div>
            <h3>Favorites:</h3>
            <c:forEach var="favorite"
items="${favorites.rows}">
                <div>
                    <p>
                        <b>Sr.No:</b>
                        <c:out value="${favorite.id}" />
                    </p>
                    <p>
                        <b>Name:</b>
                        <c:out value="${favorite.Name}"
/>
                    </p>
                    <p>
                        <b>Address:</b>
                        <c:out
value="${favorite.Address}" />
                    </p>
                    <p>
                        <b>Landmark:</b>
                        <c:out
value="${favorite.Landmark}" />
                    </p>
                    <p>
                        <b>Time Schedule:</b>
                        <c:out
value="${favorite.Trainschedule}" />
```

```
                    </p>
                    <p>
                        <b>Person In-Charge:</b>
                        <c:out value="${favorite.pname}"
/>
                    </p>
                    <p>

                        <b>Status:</b>
                        <c:out
value="${favorite.status}" />
                    </p>
                    <hr>
                </div>
                <form action="RemoveFromFavorite"
method="POST">
                    <input type="hidden" name="id"
value="${favorite.id}" /> <input
                        type="submit" value="Remove from
Favorite" />
                </form>
            </c:forEach>
        </div>
    </c:if>
    <c:if test="${empty favorites.rows}">
        <p>No favorite crossings.</p>
    </c:if>
</body>
</html>
```

✓ index.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>User Login</title>
</head>
<style>
body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
    padding: 20px;
    text-align: center;
}
```

```css
h3 {
    color: #333;
}

a {
    display: inline-block;
    margin: 10px 0;
    padding: 10px 20px;
    background-color: #007bff;
    color: #fff;
    text-decoration: none;
    border-radius: 5px;
}

a:hover {
    background-color: #0056b3;
}
</style>
</head>
<body>
    <h3>Welcome to Railway Crossing!!!</h3>
    <a href="login.jsp">User Login</a>
    <br>
    <br>
    <a href="adminlogin.jsp">Admin Login</a>
</body>
</html>
```

✓ **login.jsp**

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>User Login</title>
<style>
body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
}

form {
    max-width: 400px;
    margin: 0 auto;
    padding: 20px;
```

```css
        background-color: #fff;
        border-radius: 5px;
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    h2 {
        text-align: center;
        color: #333;
    }

    table {
        margin-top: 20px;
        width: 100%;
    }

    td {
        padding: 10px;
    }

    input[type="text"], input[type="password"] {
        width: 100%;
        padding: 8px;
        border-radius: 4px;
        border: 1px solid #ccc;
    }

    input[type="submit"] {
        width: 100%;
        padding: 8px;
        border-radius: 4px;
        background-color: #4CAF50;
        color: #fff;
        cursor: pointer;
    }

    input[type="submit"]:hover {
        background-color: #45a049;
    }

    a {
        text-decoration: none;
        color: #333;
    }
</style>
</head>
<body>
    <div align=center>
        <h2>User Login</h2>
        <form action="Login" method="POST">
            <table>
                <tr>
```

```
                            <td>Email:</td>
                            <td><input type="text" name="email"
placeholder="email" required></td>
                        </tr>
                        <tr>
                            <td>Password:</td>
                            <td><input type="password"
name="password" placeholder="password" required></td>
                        </tr>
                        <br>
                        <br>
                        <tr>
                            <td><input type="submit"
value="Login"><br> <br>
                                    <br>Don't have an account?<a
href="registration.jsp">SignIn</a></td>
                        </tr>
                        <tr>
                            <td><a href="index.jsp">Back<a></td>
                        </tr>
                </table>
            </form>
        </div>
</body>
</html>
```

✓ **registration,jsp**

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Register form</title>
<style>
body {
    font-family: Arial, sans-serif;
    background-color: #f2f2f2;
}

form {
    max-width: 400px;
    margin: 0 auto;
    padding: 20px;
    background-color: #fff;
    border-radius: 5px;
```

```css
        box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h2 {
        text-align: center;
        color: #333;
}

table {
        margin-top: 20px;
        width: 100%;
}

td {
        padding: 10px;
}

input[type="text"], input[type="password"] {
        width: 100%;
        padding: 8px;
        border-radius: 4px;
        border: 1px solid #ccc;
}

input[type="submit"] {
        width: 100%;
        padding: 8px;
        border-radius: 4px;
        background-color: #4CAF50;
        color: #fff;
        cursor: pointer;
}

input[type="submit"]:hover {
        background-color: #45a049;
}

a {
        text-decoration: none;
}
</style>
</head>
<body>
        <form action="Register" method="post">
                <div align=center>
                        <h2>User Registration</h2>
                        <table>
                                <tr>
                                        <td>Name:</td>
                                        <td><input type="text" name="uname"
placeholder="UserName"
```

```
                                        required></td>
                    </tr>
                    <tr>
                        <td>Email:</td>
                        <td><input type="text" name="email"
placeholder="Email"
                                        required></td>
                    </tr>
                    <tr>
                        <td>Password:</td>
                        <td><input type="password"
name="password"
                                        placeholder="password"
required></td>
                    </tr>
                    <br>
                    <br>
                    <tr>
                        <td></td>
                        <td><input type="submit"
value="register"><br> <br>Already
                                Registered?<a
href="login.jsp">Go to login</a></td>
                    </tr>
                </table>
            </div>
        </form>
</body>
</html>
```

✓ **search.jsp**

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<%@ page import="java.io.*, java.util.*, java.sql.*"%>
<%@ page import="javax.servlet.http.*, javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql"
prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Search Railway Crossing</title>
</head>
<body>
    <h2>Search Railway Crossing</h2>
```

```html
        <form action="searchresult.jsp" method="GET">
            <input type="text" name="keyword" placeholder="Enter
keyword" /> <input
                    type="submit" value="Search" />
        </form>
</body>
</html>
```

✓ **searchresult.jsp**

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<%@ page import="java.io.*, java.util.*, java.sql.*"%>
<%@ page import="javax.servlet.http.*, javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql"
prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Search Results</title>
</head>
<body>
    <h2>Search Results</h2>
    <sql:setDataSource var="snapshot"
driver="com.mysql.cj.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/railway"
user="root"
        password="Kalyan@123" />
    <c:set var="keyword" value="${param.keyword}" />
    <sql:query dataSource="${snapshot}" var="result">
SELECT * FROM adminhome
WHERE Name LIKE CONCAT('%', ?, '%') OR Address LIKE
CONCAT('%', ?, '%')
<sql:param value="${keyword}" />
        <sql:param value="${keyword}" />
    </sql:query>
    <table border="1" width="100%">
        <tr>
            <th>Sr.No</th>
            <th>Name</th>
            <th>Address</th>
            <th>Landmark</th>
            <th>Time Schedule</th>
            <th>Person In-Charge</th>
            <th>Status</th>
```

```
            </tr>
            <c:forEach var="row" items="${result.rows}">
                <tr>
                    <td><c:out value="${row.id}" /></td>
                    <td><c:out value="${row.Name}" /></td>
                    <td><c:out value="${row.Address}" /></td>
                    <td><c:out value="${row.Landmark}" /></td>
                    <td><c:out value="${row.Trainschedule}"
/></td>
                    <td><c:out value="${row.pname}" /></td>
                    <td><c:out value="${row.status}" /></td>
                </tr>
            </c:forEach>
        </table>
</body>
</html>
```

✓ update.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql"
prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
    <title>Update Railway Crossing</title>
</head>
<body>
    <h2>Update Railway Crossing</h2>

    <sql:setDataSource var="snapshot"
driver="com.mysql.cj.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/railway" user="root"
password="Kalyan@123" />

    <c:if test="${not empty param.id}">
        <sql:query dataSource="${snapshot}" var="result">
            SELECT * FROM adminhome WHERE id = ?
            <sql:param value="${param.id}" />
        </sql:query>

        <c:if test="${not empty result.rows}">
```

```jsp
<c:forEach var="row" items="${result.rows}">
    <form action="updateprocess.jsp"
method="POST">
        <input type="hidden" name="id"
value="${row.id}" />
        <table>
            <tr>
                <td>Name:</td>
                <td><input type="text" name="Name"
value="${row.Name}" required></td>
            </tr>
            <tr>
                <td>Address:</td>
                <td><input type="text"
name="Address" value="${row.Address}" required></td>
            </tr>
            <tr>
                <td>Landmark:</td>
                <td><input type="text"
name="Landmark" value="${row.Landmark}" required></td>
            </tr>
            <tr>
                <td>Time Schedule:</td>
                <td><input type="time"
name="Trainschedule" value="${row.Trainschedule}"
required></td>
            </tr>
            <tr>
                <td>Person In-Charge:</td>
                <td><input type="text"
name="pname" value="${row.pname}" required></td>
            </tr>
            <tr>
                <td>Status:</td>
                <td>
                    <input type="radio"
name="status" value="open" ${row.status == 'open' ? 'checked'
: ''} required> Open
                    <input type="radio"
name="status" value="closed" ${row.status == 'closed' ?
'checked' : ''} required> Closed
                </td>
            </tr>
            <tr>
                <td><input type="submit"
value="Update Crossing"></td>
            </tr>
        </table>
    </form>
</c:forEach>
</c:if>
```

```
        </c:if>
</body>
</html>
```

✓ **updateprocess.jsp**

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core"
prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql"
prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
<title>Update Crossing Process</title>
</head>
<body>
    <h2>Update Crossing Process</h2>
    <sql:setDataSource var="snapshot"
driver="com.mysql.cj.jdbc.Driver"
        url="jdbc:mysql://localhost:3306/railway"
user="root"
        password="Kalyan@123" />
    <c:if test="${not empty param.id}">
        <sql:update dataSource="${snapshot}">
UPDATE adminhome SET Name=?, Address=?, Landmark=?,
Trainschedule=?, pname=?, status=? WHERE id=?
<sql:param value="${param.Name}" />
            <sql:param value="${param.Address}" />
            <sql:param value="${param.Landmark}" />
            <sql:param value="${param.Trainschedule}" />
            <sql:param value="${param.pname}" />
            <sql:param value="${param.status}" />
            <sql:param value="${param.id}" />
        </sql:update>
        <script>
            window.location.href = "adminhome.jsp";
        </script>
    </c:if>
    <a href="adminhome.jsp">Back to Admin Home</a>
</body>
</html>
```

✓ userhome.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=UTF-8"
     pageEncoding="UTF-8"%>
<%@ page import="java.io.*,java.util.*,java.sql.*"%>
<%@ page import="javax.servlet.http.*,javax.servlet.*"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/sql" prefix="sql"%>
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>User Home</title>
<style>
.header {
    text-align: center;
    margin-bottom: 20px;
}

.link {
    display: block;
    margin-bottom: 10px;
}
</style>
</head>
<body>
    <h2>User Home</h2>
    <a class="link" href="userhome.jsp">Home</a>
    <a class="link" href="search.jsp">Search Crossing</a>
    <a class="link" href="favorite.jsp">Favorite Crossing</a>
    <sql:setDataSource var="snapshot" driver="com.mysql.cj.jdbc.Driver"
         url="jdbc:mysql://localhost:3306/railway"
user="root"
         password="Kalyan@123" />
    <sql:query dataSource="${snapshot}" var="result">
SELECT * FROM adminhome;
</sql:query>
    <c:forEach var="row" items="${result.rows}">
        <div>
            <h4>
                Name:
                <c:out value="${row.Name}" />
            </h4>
            <p>
                Address:
                <c:out value="${row.Address}" />
```

```jsp
            </p>
            <p>
                Landmark:
                <c:out value="${row.Landmark}" />
            </p>
            <p>
                Time Schedule:
                <c:out value="${row.Trainschedule}" />
            </p>
            <p>
                Person In-Charge:
                <c:out value="${row.pname}" />
            </p>
            <p>
                Status:
                <c:out value="${row.status}" />
            </p>
            <c:set var="isFavorite" value="false" />
            <sql:query dataSource="${snapshot}"
var="favorites">
SELECT * FROM favorites WHERE id = '${row.id}';
</sql:query>
            <c:if test="${not empty favorites.rows}">
                <c:set var="isFavorite" value="true" />
            </c:if>
            <c:choose>
                <c:when test="${isFavorite eq true}">
                    <form action="RemoveFromFavorite"
method="POST">
                        <input type="hidden" name="id"
value="${row.id}" /> <input
                            type="submit" value="Remove
from Favorite" />
                    </form>
                </c:when>
                <c:otherwise>
                    <form action="AddToFavorite"
method="POST">
                        <input type="hidden" name="id"
value="${row.id}" /> <input
                            type="submit" value="Add to
Favorite" />
                    </form>
                </c:otherwise>
            </c:choose>
        </div>
        <hr />
    </c:forEach>
    <a class="link" href="login.jsp">Logout</a>
</body>
</html>
```