**MY 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 ASC) VISIBLE,

PRIMARY KEY(id));

CREATE TABLE favorites ( Address VARCHAR(255),

id INT PRIMARY KEY,

Name VARCHAR(255),

Landmark VARCHAR(255),

Trainschedule VARCHAR(255), pname VARCHAR(255),

status VARCHAR(255)

**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>

</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 (user login)**

<%@ 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>

<body>

<div align=*center*>

<h2>User Login</h2>

<form action=*"Login"* 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><br><br>

<tr><td><input type=*"submit"* value=*"Login"*><br><br><br>Don't have an

account? <a href=*"Registration.jsp"*>Go to Register</a></td></tr>

<tr><td><a href=*"index.jsp"*>Back<a></td></tr>

</table>

</form>

</div>

</body>

</html>

**Registration.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>

</head>

<body>

<form action=*"Register"* method=*"post"*> <div align=*center*>

<h3>User Registration</h3>

<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>

**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>

</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><br>Don't have an account?<a href=*"Registration.jsp"*>Sign In</a></td></tr> </table>

</form>

</div>

</body>

</html>

**adminhome.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>

</head>

<body>

<h2>Admin Home</h2>

<a href=*"adminhome.jsp"*>Home</a><br>

<a href=*"addrail.jsp"*>Add Railway Crossing</a><br>

<a href=*"search.jsp"*>Search Crossing</a><br><br>

<sql:setDataSource var = *"snapshot"* driver = *"com.mysql.jdbc.Driver"*

url = *"jdbc:mysql://localhost:3306/railway"*

user = *"root"* password = *"*swapna@2125*"*/>

<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>

**addrail.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>

</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>

**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.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/railway"* user=*"root"* password=*”swapna@2125"* />

<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=*"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**

<%@ 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.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/railway"* user=*"root"* password=*"swapna@2125 "* />

<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>

<p>Update successful!</p>

</c:if>

<a href=*"adminhome.jsp"*>Back to Admin Home</a>

</body>

</html>

**delete.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 Record</title>

</head>

<body>

<h2>Delete Record</h2>

<sql:setDataSource var=*"snapshot"* driver=*"com.mysql.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/railway"* user=*"root"* password=*"swapna@2125 "* />

<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=*"deleteProcess.jsp"* method=*"POST"*>

<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>

**deleteProcess.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.\*"* %>

<%

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 = "swapna@2125";

// 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("delete.jsp?success=true"); } **catch** (SQLException e) { e.printStackTrace();
* Handle database errors

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

} **else** {

* ID is not provided, redirect back to delete.jsp with error message response.sendRedirect("delete.jsp?error=true");

}

%>

**userhome.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.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/railway"* user=*"root"* password=*"swapna@2125"* />

<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}*"* /></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> <form action=*"AddToFavorite"* method=*"POST"*>

<input type=*"hidden"* name=*"itemId"* value=*"*${row.id}*"* />

<input type=*"submit"* value=*"Add to Favorite"* />

</form>

</div>

<hr />

</c:forEach>

<a class=*"link"* href=*"login.jsp"*>Logot</a>

</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 Crossing</title>

</head>

<body>

<h2>Search Crossing</h2>

<form action=*"searchResult.jsp"* method=*"GET"*>

<input type=*"text"* name=*"keyword"* placeholder=*"Enter keyword"* />

<input type=*"submit"* value=*"Search"* />

</form>

</body>

</html>

**searchReult.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=*"swapna@2125"* />

<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>

**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>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=UTF-8"*>

<title>Favorite Crossing</title>

</head>

<body>

<h2>Favorite Crossing</h2>

<a href=*"userhome.jsp"*>Home</a><br>

<a href=*"search.jsp"*>Search Crossing</a><br><br>

<a href=*"search.jsp"*>Search Crossing</a><br><br>

<sql:setDataSource var=*"snapshot"* driver=*"com.mysql.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/railway"* user=*"root"* password=*"swapna@2125"* />

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

</sql:query>

<c:if test=*"*${**not empty** favorites.rows}*"*> <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=*"favorite"* items=*"*${favorites.rows}*"*> <tr>

<td><c:out value=*"*${favorite.id}*"* /></td>

<td><c:out value=*"*${favorite.Name}*"* /></td>

<td><c:out value=*"*${favorite.Address}*"* /></td>

<td><c:out value=*"*${favorite.Landmark}*"* /></td>

<td><c:out value=*"*${favorite.Trainschedule}*"* /></td>

<td><c:out value=*"*${favorite.pname}*"* /></td>

<td><c:out value=*"*${favorite.status}*"* /></td>

</tr>

</c:forEach>

</table>

</c:if>

<c:if test=*"*${**empty** favorites.rows}*"*>

<p>No favorite crossings.</p>

</c:if>

</body>

</html>

**AdminLogin.java (Servlet)**

**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; **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:3306/railway","root ","swapna@2125");

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 (servlet)**

**package** favorite;

**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** java.sql.Connection; **import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

@WebServlet("/AddToFavorite")

**public class** AddToFavorite **extends** HttpServlet {

**protected void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

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

* Perform necessary operations to add the item to favorites **try** {
* Establish database connection

Class.*forName*("com.mysql.jdbc.Driver"); Connection connection =

DriverManager.*getConnection*("jdbc:mysql://localhost:3306/railway", "root", "swapna@2125");

// 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();

}

}

}

**Login.java (Servlet)**

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:3306/railway","root","swapna@2125");

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

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

PreparedStatement ps = con.prepareStatement("SELECT uname FROM user WHERE uname=? AND password=?");

ps.setString(1,uname);

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;

}

}

**RailCross.java (normal class)**

**package** rail;

**import** java.sql.Time;

**public class** RailCross {

**private** String name;

**private** String address;

**private** String landmark;

**private** String trainSchedule;

**private** String personInCharge;

**private** String status;

**public** RailCross(String name, String address, String landmark, String trainSchedule, String personInCharge, String status) {

**this**.name = name;

**this**.address = address;

**this**.landmark = landmark;

**this**.trainSchedule = trainSchedule;

**this**.personInCharge = personInCharge;

**this**.status = status;

}

// Getters and setters

**public** String getName() {

**return** name;

}

**public void** setName(String name) {

**this**.name = name;

}

**public** String getAddress()

{

**return** address;

}

**public void** setAddress(String address) { **this**.address = address;

}

**public** String getLandmark()

{

**return** landmark;

}

**public void** setLandmark(String landmark) { **this**.landmark = landmark; }

**public** String getTrainSchedule()

{

**return** trainSchedule;

}

**public void** setTrainSchedule(String trainSchedule)

{

**this**.trainSchedule = trainSchedule;

}

**public** String getPersonInCharge() {

**return** personInCharge;

}

**public void** setPersonInCharge(String personInCharge) { **this**.personInCharge = personInCharge;

}

**public** String getStatus() {

**return** status;

}

**public void** setStatus(String status) { **this**.status = status; }

}

**RailCrossing.java (servlet)**

**package** rail;

**import** java.io.IOException;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

**import** java.sql.Time;

**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("/RailCrossing")

**public class** RailCrossing **extends** HttpServlet { **private static final long *serialVersionUID*** = 1L;

**private** String dbUrl = "jdbc:mysql://localhost:3306/railway"; **private** String dbUsername = "root"; **private** String dbPassword = "swapna@2125";

**private** String dbDriver = "com.mysql.cj.jdbc.Driver";

**protected void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException { String name = request.getParameter("Name"); String address = request.getParameter("Address"); String landmark = request.getParameter("Landmark");

String trainSchedule = request.getParameter("Trainschedule");

String personInCharge = request.getParameter("pname");

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

RailCross railCrossing = **new** RailCross(name, address, landmark, trainSchedule, personInCharge,status);

String result = insertRailCrossing(railCrossing); response.getWriter().print(result); }

**private** String insertRailCrossing(RailCross railCrossing) { **try** {

Class.*forName*(dbDriver);

Connection connection = DriverManager.*getConnection*(dbUrl, dbUsername, dbPassword);

String sql = "INSERT INTO adminhome (Name, Address, Landmark, Trainschedule, pname, status) VALUES (?, ?, ?, ?, ?, ?)"; PreparedStatement statement = connection.prepareStatement(sql); statement.setString(1, railCrossing.getName()); statement.setString(2, railCrossing.getAddress()); statement.setString(3, railCrossing.getLandmark()); statement.setString(4, railCrossing.getTrainSchedule()); statement.setString(5, railCrossing.getPersonInCharge()); statement.setString(6, railCrossing.getStatus());

**int** rowsInserted = statement.executeUpdate(); **if** (rowsInserted > 0) {

**return** "Data inserted successfully";

} **else** {

**return** "Failed to insert data";

}

} **catch** (ClassNotFoundException | SQLException e) { e.printStackTrace();

**return** "Error: " + e.getMessage();

}

}

}

**Member.java (normal class)**

**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;

**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 (Servelet)**

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

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

Member user = new Member(uname, password, email);

RegisterDao rDao = new RegisterDao();

String result = rDao.insert(user);

response.getWriter().print(result);

}

}

**RegisterDao.java (Normal class)**

**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";

**private** String dbPassword = "swapna@2125";

**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;

}

}