**Railway Crossing Status….**

**Connectionutil.database:**

package com.railway.database;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.HashMap;

import java.util.List;

public class ConnectionUtil {

public Connection con = null;

public Statement st = null;

public ConnectionUtil() throws ClassNotFoundException, SQLException {

Class.forName("com.mysql.cj.jdbc.Driver");

con = DriverManager.getConnection("jdbc:mysql://localhost:3306/ram", "root", "Narayanamma@12");

System.out.println("Connection established with database");

st = con.createStatement();

}

public HashMap<String, String> checkUser(String email, String password) {

HashMap<String, String> user = null;

String query = "select \* from users where email='" + email + "' and password='" + password + "'";

try {

ResultSet rs = st.executeQuery(query);

if (rs.next()) {

user = new HashMap<>();

user.put("name", rs.getString("name"));

user.put("email", rs.getString("email"));

user.put("phno", rs.getString("phone\_number"));

user.put("adno", rs.getString("aadhar\_number"));

}

} catch (SQLException e) {

e.printStackTrace();

}

return user;

}

public boolean insertUser(HashMap<String, String> user) {

String query = "INSERT INTO users (email, password, name, phone\_number, aadhar\_number) values('" +

user.get("email") + "','" +

user.get("password") + "','" +

user.get("name") + "','" +

user.get("phno") + "','" +

user.get("adno") + "')";

try {

st.executeUpdate(query);

return true;

} catch (SQLException e) {

e.printStackTrace();

}

return false;

}

public boolean checkAdmin(String email, String password) {

try {

ResultSet rs = st.executeQuery("select \* from admin where email='" + email + "' and password='" + password + "'");

return rs.next();

} catch (SQLException e) {

e.printStackTrace();

}

return false;

}

public boolean changeAdminPassword(String email, String password) {

try {

ResultSet rs = st.executeQuery("select \* from admin where email='" + email + "'");

if (!rs.next()) {

return false;

}

st.executeUpdate("update admin set password='" + password + "' where email='" + email + "'");

return true;

} catch (SQLException e) {

e.printStackTrace();

}

return false;

}

public boolean insertRailCross(HashMap<String, String> Rail) {

String query1 = "INSERT INTO RailwayCrossing (CrossingName, Address, Landmark, TrainSch, Incharge, Status) VALUES ('" +

Rail.get("CrossingName") + "','" +

Rail.get("Address") + "','" +

Rail.get("Landmark") + "','" +

Rail.get("TrainSch") + "','" +

Rail.get("Incharge") + "','" +

Rail.get("Status") + "')";

try {

st.executeUpdate(query1);

return true;

} catch (SQLException e) {

e.printStackTrace();

}

return false;

}

public boolean deleteRailwayCrossing(int RailCrossId) {

String query = "DELETE FROM RailwayCrossing WHERE crId=" + RailCrossId;

try {

st.executeUpdate(query);

return true;

} catch (SQLException e) {

e.printStackTrace();

}

return false;

}

public List<HashMap<String, String>> getAllRailwayCrossings() {

List<HashMap<String, String>> railwayCrossings = new ArrayList<>();

String query = "SELECT \* FROM RailwayCrossing";

try {

ResultSet rs = st.executeQuery(query);

while (rs.next()) {

HashMap<String, String> crossingDetails = new HashMap<>();

crossingDetails.put("CrossingName", rs.getString("CrossingName"));

crossingDetails.put("Address", rs.getString("Address"));

crossingDetails.put("Landmark", rs.getString("Landmark"));

crossingDetails.put("TrainSch", rs.getString("TrainSch"));

crossingDetails.put("Incharge", rs.getString("Incharge"));

crossingDetails.put("Status", rs.getString("Status"));

railwayCrossings.add(crossingDetails);

}

} catch (SQLException e) {

e.printStackTrace();

}

return railwayCrossings;

}

public List<HashMap<String, String>> searchRailwayCrossingsByName(String crossingName) {

List<HashMap<String, String>> matchingRailwayCrossings = new ArrayList<>();

String query = "SELECT \* FROM RailwayCrossing WHERE CrossingName LIKE '%" + crossingName + "%'";

try {

ResultSet rs = st.executeQuery(query);

while (rs.next()) {

HashMap<String, String> crossingDetails = new HashMap<>();

crossingDetails.put("CrossingName", rs.getString("CrossingName"));

crossingDetails.put("Address", rs.getString("Address"));

crossingDetails.put("Landmark", rs.getString("Landmark"));

crossingDetails.put("TrainSch", rs.getString("TrainSch"));

crossingDetails.put("Incharge", rs.getString("Incharge"));

crossingDetails.put("Status", rs.getString("Status"));

matchingRailwayCrossings.add(crossingDetails);

}

} catch (SQLException e) {

e.printStackTrace();

}

return matchingRailwayCrossings;

}

public List<HashMap<String, String>> getFavoriteCrossings(String userEmail) {

List<HashMap<String, String>> favoriteCrossings = new ArrayList<>();

String query = "SELECT \* FROM UserFavorites WHERE userEmail='" + userEmail + "'";

try {

ResultSet rs = st.executeQuery(query);

while (rs.next()) {

int crossingId = rs.getInt("crossingId");

// Assuming you have a method getRailcrossDetailsById() to retrieve crossing details by ID

HashMap<String, String> crossingDetails = getRailcrossDetailsById(crossingId);

favoriteCrossings.add(crossingDetails);

}

} catch (SQLException e) {

e.printStackTrace();

}

return favoriteCrossings;

}

public HashMap<String, String> getRailcrossDetailsById(int crossingId) {

HashMap<String, String> crossingDetails = new HashMap<>();

String query = "SELECT \* FROM RailwayCrossing WHERE crId=" + crossingId;

try {

ResultSet rs = st.executeQuery(query);

if (rs.next()) {

crossingDetails.put("CrossingName", rs.getString("CrossingName"));

crossingDetails.put("Address", rs.getString("Address"));

crossingDetails.put("Landmark", rs.getString("Landmark"));

crossingDetails.put("TrainSch", rs.getString("TrainSch"));

crossingDetails.put("Incharge", rs.getString("Incharge"));

crossingDetails.put("Status", rs.getString("Status"));

}

} catch (SQLException e) {

e.printStackTrace();

}

return crossingDetails;

}

}

**Servlets**

**Registration of User:**

package com.railway.servlets;

import java.io.IOException;

import java.sql.SQLException;

import java.util.HashMap;

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;

import com.railway.database.ConnectionUtil;

@WebServlet("/RegistrationOfUser")

public class RegistrationOfUser extends HttpServlet {

private static final long serialVersionUID = 1L;

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

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

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

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

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

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

HashMap<String, String> user = new HashMap<>();

user.put("email", email);

user.put("password", password);

user.put("name", name);

user.put("phno", phno);

user.put("adno", adno);

try {

ConnectionUtil dao = new ConnectionUtil();

boolean result = dao.insertUser(user);

HttpSession session = request.getSession();

if (result) {

session.setAttribute("message", "User Added Successfully");

} else {

session.setAttribute("message", "Invalid Details");

}

response.sendRedirect("sucess.jsp");

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

}

}

**LoginOfUser:**

package com.railway.servlets;

import java.io.IOException;

import java.sql.SQLException;

import java.util.HashMap;

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;

import javax.servlet.http.HttpSession;

import com.railway.database.ConnectionUtil;

@WebServlet("/LoginOfUser")

public class LoginOfUser extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

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

try {

ConnectionUtil dao = new ConnectionUtil();

HashMap<String, String> user = dao.checkUser(email, password);

if (user != null) {

HttpSession session = request.getSession();

session.setAttribute("user", user);

response.sendRedirect("HomePage.jsp");

} else {

HttpSession session = request.getSession();

request.setAttribute("errorMessage", "Invalid email or password. Please try again.");

RequestDispatcher dispatcher = request.getRequestDispatcher("ErrorMessage.jsp");

dispatcher.forward(request, response);

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

}

}

**Logout:**

package com.railway.servlets;

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("/Logout")

public class Logout extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

HttpSession session = request.getSession();

session.setAttribute("user", null);

response.sendRedirect("HomePage.jsp");

}

}

**LoginOfAdmin:**

package com.railway.servlets;

import java.io.IOException;

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;

import javax.servlet.http.HttpSession;

import com.railway.database.ConnectionUtil;

@WebServlet("/LoginOfAdmin")

public class LoginOfAdmin extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

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

try {

ConnectionUtil dao = new ConnectionUtil();

if (dao.checkAdmin(email, password)) {

response.sendRedirect("AdminHome.jsp");

} else {

HttpSession session = request.getSession();

request.setAttribute("errorMessage", "Invalid email or password. Please try again.");

RequestDispatcher dispatcher = request.getRequestDispatcher("ErrorMessage.jsp");

dispatcher.forward(request, response);

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

}

}

**Add to Favourite:**

@WebServlet("/AddToFavouriteServlet")

public class AddToFavouriteServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

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

String crossingIdString = request.getParameter("crossingId");

int crossingId = Integer.parseInt(crossingIdString);

String userEmail = request.getSession().getAttribute("email").toString(); // Assuming you're storing the user's email in session

try {

ConnectionUtil dao = new ConnectionUtil();

boolean success = dao.addToFavorites(userEmail, crossingId);

if (success) {

response.sendRedirect("AddToFavouriteSuccess.jsp");

} else {

response.sendRedirect("AddToFavouriteFailure.jsp");

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

response.sendRedirect("AddToFavouriteFailure.jsp");

}

}

}

**DeleteRailCrossing:**

package com.railway.servlets;

import java.io.IOException;

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;

import com.railway.database.ConnectionUtil;

@WebServlet("/DeleteRailCross")

public class DeleteRailCrossing extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

try {

ConnectionUtil dao = new ConnectionUtil();

boolean success = dao.deleteRailwayCrossing(RailcrossId);

if (success) {

response.sendRedirect("DeleteRailCrossSuccess.jsp");

} else {

response.sendRedirect("DeleteRailCrossFailure.jsp");

}

} catch (ClassNotFoundException e) {

e.printStackTrace();

} catch (SQLException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}

Forgot password:

package com.railway.servlets;

import java.io.IOException;

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;

import javax.servlet.http.HttpSession;

import com.railway.database.ConnectionUtil;

@WebServlet("/ForgotPassword")

public class ForgotPassword extends HttpServlet {

private static final long serialVersionUID = 1L;

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

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

try {

ConnectionUtil dao = new ConnectionUtil();

HttpSession session = request.getSession();

if (dao.changeAdminPassword(email, password)) {

session.setAttribute("message", "Password Changed Successfully");

} else {

session.setAttribute("message", "Invalid Details");

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

}

response.sendRedirect("AdminPage.jsp");

}

}

Railcrossingisnsrt:

package com.railway.servlets;

import java.io.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

import java.sql.\*;

@WebServlet("/RailwayCrossingServlet")

public class RailwayCrossingServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

try {

// Establish database connection

Class.forName("com.mysql.cj.jdbc.Driver");

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/flyaway", "root", "Saiicon@007");

// Execute SQL query to get data

Statement stmt = con.createStatement();

ResultSet rs = stmt.executeQuery("SELECT \* FROM RailwayCrossing");

List<Map<String, String>> crossings = new ArrayList<>();

while (rs.next()) {

Map<String, String> crossing = new HashMap<>();

crossing.put("CrossingName", rs.getString("CrossingName"));

crossing.put("Address", rs.getString("Address"));

crossing.put("Landmark", rs.getString("Landmark"));

crossing.put("TrainSch", rs.getString("TrainSch"));

crossing.put("Incharge", rs.getString("Incharge"));

crossing.put("Status", rs.getString("Status"));

crossings.add(crossing);

}

// Pass the data to JSP

request.setAttribute("crossings", crossings);

RequestDispatcher rd = request.getRequestDispatcher("display.jsp");

rd.forward(request, response);

con.close();

} catch (Exception e) {

out.println(e);

}

out.close();

}

}

**JSP FILES**

**Add to Favourite:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Add to Favourites Success</title>

</head>

<body>

<h1>Crossing Added to Favourites Successfully</h1>

<p>The crossing has been added to your favourites list.</p>

</body>

</html>

**Admin home:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

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

<%@ page import=*"com.railway.database.ConnectionUtil"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Railway Crossings</title>

<style>

**table** {

border-collapse: *collapse*;

width: *100%*;

}

**th,** **td** {

border: *1px solid #ddd*;

padding: *8px*;

text-align: *left*;

}

**th** {

background-color: *#f2f2f2*;

}

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

background-color: *#f9f9f9*;

}

*.open* {

color: *green*;

}

*.closed* {

color: *red*;

}

</style>

</head>

<body>

<br>

<a href=*"HomePage.jsp"*

style="color: *black*; text-decoration: *none*; font-size: *35px*; font-weight: *bold*;">Railway

Crossing</a>

<br>

<br>

<%

String message = (String)session.getAttribute("message");

**if** (message != **null**) {

%>

<p style="color: *silver*;"><%= message %></p>

<%

session.setAttribute("message", **null**);

}

%>

<div style="text-align: *right*; margin-right: *10px*; margin-top: *10px*;">

<form action=*"Logout"* method=*"post"* style="display: *inline*;">

<input type=*"submit"* value=*"Logout"*>

</form>

</div>

<form action=*""* method=*"post"* style="display: *inline*;">

<input type=*"text"* name=*"crossingName"*

placeholder=*"Enter Railway Crossing Name"*> <input

type=*"submit"* value=*"Search"*>

</form>

|

<form action=*"RailCrossingInsert.jsp"* method=*"post"*

style="display: *inline*;">

<button type=*"submit"*>Insert Railway Crossing</button>

</form>

|

<form action=*"DeleteRailCross.jsp"* method=*"post"*

style="display: *inline*;">

<button type=*"submit"*>Delete Railway Crossing</button>

</form>

<br>

<br>

<%

ConnectionUtil dao = **new** ConnectionUtil();

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

List<HashMap<String, String>> railwayCrossings;

**if** (crossingName != **null** && !crossingName.isEmpty()) {

railwayCrossings = dao.searchRailwayCrossingsByName(crossingName);

} **else** {

railwayCrossings = dao.getAllRailwayCrossings();

}

**if** (!railwayCrossings.isEmpty()) {

%>

<table>

<tr>

<th>Crossing Name</th>

<th>Address</th>

<th>Landmark</th>

<th>Train Schedule</th>

<th>Incharge</th>

<th>Status</th>

<th>Action</th>

<!-- Add this column for the button -->

</tr>

<%

**for** (HashMap<String, String> crossingDetails : railwayCrossings) {

%>

<tr>

<td><%= crossingDetails.get("CrossingName") %></td>

<td><%= crossingDetails.get("Address") %></td>

<td><%= crossingDetails.get("Landmark") %></td>

<td><%= crossingDetails.get("TrainSch") %></td>

<td><%= crossingDetails.get("Incharge") %></td>

<td

class=*"*<%= crossingDetails.get("Status").equalsIgnoreCase("Open") ? "open" : "closed" %>*"*>

<%= crossingDetails.get("Status") %>

</td>

<td>

<form action=*"RailCrossingInsert.jsp"* method=*"post"*

style="display: *inline*;">

<input type=*"hidden"* name=*"crossingId"*

value=*"*<%= crossingDetails.get("crId") %>*"*> <input

type=*"submit"* value=*"Update"*>

</form>

<form action=*"DeleteRailCross.jsp"* method=*"post"*

style="display: *inline*;">

<input type=*"hidden"* name=*"crossingId"*

value=*"*<%= crossingDetails.get("crId") %>*"*> <input

type=*"submit"* value=*"Delete"*>

</form>

</td>

</tr>

<%

}

%>

</table>

<%

} **else** {

%>

<p>No railway crossings found.</p>

<%

}

%>

</body>

</html>

**Admin Login:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Admin Page</title>

</head>

<body>

<br>

<a href=*"HomePage.jsp"* style="color:*black*;text-decoration:*none*;font-size:*35px*;font-weight:*bold*;">Railway Crossing</a>

<br><br>

<h2>Admin Login</h2>

<div style="border:*3px solid black*;width:*25%*;border-radius:*20px*;padding:*20px*" align=*"center"*>

<form action=*"LoginOfAdmin"* method=*"post"*>

<label for=*"email"*>Email :-</label> <input type=*"email"* name=*"email"* id=*"email"* /><br><br>

<label for=*"pass"*>Password :-</label> <input type=*"password"* name=*"password"* id=*"pass"* /><br><br>

<input type=*"submit"* value=*"Submit"* /> <input type=*"reset"* />

</form>

</div>

<a href=*"ForgotPassword.jsp"* style="font-size:*25*;color:*red*;">Forgot Password</a>

<%

String message = (String)session.getAttribute("message");

**if** (message != **null**) {

%>

<p style="color:*silver*;"><%= message %></p>

<%

session.setAttribute("message", **null**);

}

%>

</body>

</html>

**Delete rail cross:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Delete Flight</title>

</head>

<body>

<form action=*"DeleteRailCross"* method=*"post"*>

RailCross ID: <input type=*"text"* name=*"RailcrossId"*>

<input type=*"submit"* value=*"Delete RailCross"*>

</form>

</body>

</html>

**deleterailcrossSuccess:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Delete Flight - Success</title>

</head>

<body>

<h2>Flight Deleted Successfully</h2>

</body>

</html>

**Deleterailcrossfailure:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Delete RailCross - Failure</title>

</head>

<body>

<h2>Failed to Delete Flight</h2>

</body>

</html>

**Display RailCross List;**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

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

<%@ page import=*"com.railway.database.ConnectionUtil"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Railway Crossings</title>

<style>

**table** {

border-collapse: *collapse*;

width: *100%*;

}

**th,** **td** {

border: *1px solid #ddd*;

padding: *8px*;

text-align: *left*;

}

**th** {

background-color: *#f2f2f2*;

}

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

background-color: *#f9f9f9*;

}

*.open* {

color: *green*;

}

*.closed* {

color: *red*;

}

</style>

</head>

<body>

<h1>Railway Crossings</h1>

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

<input type=*"text"* name=*"crossingName"* placeholder=*"Enter Railway Crossing Name"*>

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

</form>

<%

ConnectionUtil dao = **new** ConnectionUtil();

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

List<HashMap<String, String>> railwayCrossings;

**if** (crossingName != **null** && !crossingName.isEmpty()) {

railwayCrossings = dao.searchRailwayCrossingsByName(crossingName);

} **else** {

railwayCrossings = dao.getAllRailwayCrossings();

}

**if** (!railwayCrossings.isEmpty()) {

%>

<table>

<tr>

<th>Crossing Name</th>

<th>Address</th>

<th>Landmark</th>

<th>Train Schedule</th>

<th>Incharge</th>

<th>Status</th>

<th>Action</th> <!-- Add this column for the button -->

</tr>

<%

**for** (HashMap<String, String> crossingDetails : railwayCrossings) {

%>

<tr>

<td><%= crossingDetails.get("CrossingName") %></td>

<td><%= crossingDetails.get("Address") %></td>

<td><%= crossingDetails.get("Landmark") %></td>

<td><%= crossingDetails.get("TrainSch") %></td>

<td><%= crossingDetails.get("Incharge") %></td>

<td class=*"*<%= crossingDetails.get("Status").equalsIgnoreCase("Open") ? "open" : "closed" %>*"*>

<%= crossingDetails.get("Status") %>

</td>

<td>

<form action=*"AddToFavouriteServlet"* method=*"post"*>

<input type=*"hidden"* name=*"crossingId"* value=*"*<%= crossingDetails.get("crId") %>*"*>

<input type=*"submit"* value=*"Add to Favourite"*>

</form>

</td>

</tr>

<%

}

%>

</table>

<%

} **else** {

%>

<p>No railway crossings found.</p>

<%

}

%>

</body>

</html>

**Error Message:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Error Message</title>

</head>

<body>

<h2>Error Message</h2>

<p style="color:*red*;"><%= request.getAttribute("errorMessage") %></p>

<button onclick="goBack()">Back</button>

<script>

**function** goBack() {

window.history.back();

}

</script>

</body>

</html>

**ForgotPassword:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Forgot Password</title>

</head>

<body>

<br>

<a href=*"HomePage.jsp"* style="color:*black*;text-decoration:*none*;font-size:*35px*;font-weight:*bold*;">Flight Booking</a>

<br><br>

<div style="border:*3px solid black*;width:*25%*;border-radius:*20px*;padding:*20px*" align=*"center"*>

<form action=*"ForgotPassword"* method=*"post"*>

<label for=*"email"*>Email :-</label> <input type=*"email"* name=*"email"* id=*"email"* /><br><br>

<label for=*"pass"*>New Password :-</label> <input type=*"password"* name=*"password"* id=*"pass"* /><br><br>

<input type=*"submit"* value=*"Submit"* /> <input type=*"reset"* />

</form>

</div>

</body>

</html>

**HomePage:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"* pageEncoding=*"UTF-8"*%>

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

<%@ page import=*"com.railway.database.ConnectionUtil"* %>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>User HomePage</title>

<style>

**body** {

font-family: *Arial, sans-serif*;

margin: *0*;

padding: *20px*;

}

**h1,** **h2** {

text-align: *center*;

}

*.header-links* {

display: *flex*;

justify-content: *space-between*;

margin-bottom: *20px*;

}

*.header-links* **a** {

text-decoration: *none*;

color: *#333*;

padding: *10px 20px*;

border-radius: *5px*;

transition: *background-color 0.3s*;

}

*.header-links* **a***:hover* {

background-color: *#555*;

}

</style>

<style>

**table** {

border-collapse: *collapse*;

width: *100%*;

}

**th,** **td** {

border: *1px solid #ddd*;

padding: *8px*;

text-align: *left*;

}

**th** {

background-color: *#f2f2f2*;

}

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

background-color: *#f9f9f9*;

}

*.open* {

color: *green*;

}

*.closed* {

color: *red*;

}

</style>

</head>

<body>

<h1>Railway Crossing</h1>

<div class=*"header-links"*>

<a href=*"AdminPage.jsp"*>Admin Login</a>

<%

@SuppressWarnings("unchecked")

HashMap<String, String> user = (HashMap<String, String>) session.getAttribute("user");

**if** (user != **null**) {

%>

<h2>Welcome <%= user.get("name") %></h2>

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

<%

} **else** {

%>

<a href=*"UserPage.jsp"*>User Login</a>

<%

}

%>

</div>

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

<input type=*"text"* name=*"crossingName"* placeholder=*"Enter Railway Crossing Name"*>

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

</form>

<%

ConnectionUtil dao = **new** ConnectionUtil();

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

List<HashMap<String, String>> railwayCrossings;

**if** (crossingName != **null** && !crossingName.isEmpty()) {

railwayCrossings = dao.searchRailwayCrossingsByName(crossingName);

} **else** {

railwayCrossings = dao.getAllRailwayCrossings();

}

**if** (!railwayCrossings.isEmpty()) {

%>

<table>

<tr>

<th>Crossing Name</th>

<th>Address</th>

<th>Landmark</th>

<th>Train Schedule</th>

<th>Incharge</th>

<th>Status</th>

<th>Action</th> <!-- Add this column for the button -->

</tr>

<%

**for** (HashMap<String, String> crossingDetails : railwayCrossings) {

%>

<tr>

<td><%= crossingDetails.get("CrossingName") %></td>

<td><%= crossingDetails.get("Address") %></td>

<td><%= crossingDetails.get("Landmark") %></td>

<td><%= crossingDetails.get("TrainSch") %></td>

<td><%= crossingDetails.get("Incharge") %></td>

<td class=*"*<%= crossingDetails.get("Status").equalsIgnoreCase("Open") ? "open" : "closed" %>*"*>

<%= crossingDetails.get("Status") %>

</td>

<td>

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

<input type=*"hidden"* name=*"crossingId"* value=*"*<%= crossingDetails.get("crId") %>*"*>

<input type=*"submit"* value=*"Add to Favourite"*>

</form>

</td>

</tr>

<%

}

%>

</table>

<%

} **else** {

%>

<p>No railway crossings found.</p>

<%

}

%>

</body>

</html>

**Railcrossinginsert:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert Flight</title>

</head>

<body>

<h1>Insert New Railway Crossing Details</h1>

<div style="border:*3px solid black*;width:*25%*;border-radius:*20px*;padding:*20px*" align=*"center"*>

<form action=*"FilghtInsert"* method=*"post"*>

<label for=*"CrossingName"*>Name :-</label> <input type=*"text"* name=*"CrossingName"* id=*"CrossingName"* /><br><br>

<label for=*"Address"*>Address :-</label> <input type=*"text"* name=*"Address"* id=*"Address"* /><br><br>

<label for=*"Landmark"*>Landmark :-</label> <input type=*"text"* name=*"Landmark"* id=*"Landmark"* /><br><br>

<label for=*"TrainSch"*>TrainSch :-</label> <input type=*"time"* name=*"TrainSch"* id=*"TrainSch"* /><br><br>

<label for=*"Incharge"*>Incharge :-</label> <input type=*"text"* name=*"Incharge"* id=*"Incharge"* /><br><br>

<label for=*"Status"*>Status :-</label> <input type=*"text"* name=*"Status"* id=*"Status"* /><br><br>

<input type=*"submit"* value=*"Submit"* /> <input type=*"reset"* />

</form>

</div>

</body>

</html>

**Successmessage:**

<%@ page language=*"java"* contentType=*"text/html; charset=UTF-8"*

pageEncoding=*"UTF-8"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Success Message</title>

</head>

<body>

<h2>Success!</h2>

<p style="color:*green*;">RailCross added successfully.</p>

<button onclick="goBack()">Back</button>

<script>

**function** goBack() {

window.history.back();

}

</script>

</body>

</html>

**Userpage:**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>User Page</title>

</head>

<body>

<br>

<a href=*"HomePage.jsp"* style="color:*black*;text-decoration:*none*;font-size:*35px*;font-weight:*bold*;">Railway Crossing</a>

<br><br>

<h2>User Login</h2>

<div style="border:*2px solid black*;width:*25%*;border-radius:*20px*;padding:*20px*" align=*"center"*>

<form action=*"LoginOfUser"* method=*"post"*>

<table>

<tr>

<td><label for=*"email"*>Email</label><br></td>

<td><input type=*"email"* name=*"email"* id=*"email"* /></td>

</tr>

<tr>

<td><label for=*"pass"*>Password</label><br></td>

<td><input type=*"password"* name=*"password"* id=*"pass"* /></td>

</tr>

<tr>

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

<td><input type=*"reset"* /></td>

</tr>

</table>

</form>

</div>

<br><br>

<i>New User - Create account</i>

<h4><a href=*"UserRegistration.jsp"* style="font-size:*25*;color:*red*;">Create Account</a></h4>

<%

String message = (String)session.getAttribute("message");

**if**(message != **null**){

%>

<p style="color:*silver*;"><%= message %></p>

<%

session.setAttribute("message", **null**);

}

%>

</body>

</html>

**UserRegistraion:**

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>User Registration</title>

</head>

<body>

<br>

<a href=*"HomePage.jsp"* style="color:*black*;text-decoration:*none*;font-size:*35px*;font-weight:*bold*;">Railway Crossing</a>

<br><br>

<div style="border:*3px solid black*;width:*25%*;border-radius:*20px*;padding:*20px*" align=*"center"*>

<form action=*"RegistrationOfUser"* method=*"post"*>

<label for=*"email"*>Email :-</label> <input type=*"email"* name=*"email"* id=*"email"* /><br><br>

<label for=*"pass"*>Password :-</label> <input type=*"password"* name=*"password"* id=*"pass"* /><br><br>

<label for=*"name"*>Name :-</label> <input type=*"text"* name=*"name"* id=*"name"* /><br><br>

<label for=*"phno"*>Phone No. :-</label> <input type=*"text"* name=*"phno"* id=*"phno"* /><br><br>

<label for=*"adno"*>Aadhaar No. :-</label> <input type=*"text"* name=*"adno"* id=*"adno"* /><br><br>

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

</form>

</div>

</body>

</html>

**Web.xml**

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

<web-app xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"*

version=*"4.0"*>

<display-name>Flight Booking</display-name>

<welcome-file-list>

<welcome-file>UserPage.jsp</welcome-file>

<welcome-file>UserRegistration.jsp</welcome-file>

<welcome-file>AdminHome.jsp</welcome-file>

<welcome-file>AdminPage.jsp</welcome-file>

<welcome-file>ForgotPassword.jsp</welcome-file>

<welcome-file>HomePage.jsp</welcome-file>

<welcome-file>UserPage.jsp</welcome-file>

</welcome-file-list>

</web-app>