**Railway Crossing Status**

**Email : harshaseattumbbs@gmail.com**

**Password : Harsha2001$**

DashBoardServlet.java

package com;

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 java.util.ArrayList;

import java.util.List;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

import jakarta.servlet.annotation.WebServlet;

*@WebServlet*("/DashboardServlet")

public class DashboardServlet extends HttpServlet {

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

private static final String ***DB\_URL*** = "jdbc:mysql://localhost:3306/railway";

private static final String ***DB\_USERNAME*** = "root";

private static final String ***DB\_PASSWORD*** = "Harsha2001$";

private static final String ***JDBC\_DRIVER*** = "com.mysql.jdbc.Driver";

private Connection conn;

*@Override*

public void init() throws ServletException {

super.init();

try {

Class.*forName*(***JDBC\_DRIVER***);

conn = DriverManager.*getConnection*(***DB\_URL***, ***DB\_USERNAME***, ***DB\_PASSWORD***);

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

throw new ServletException("Database connection error: " + e.getMessage());

}

}

*@Override*

public void destroy() {

super.destroy();

try {

if (conn != null && !conn.isClosed()) {

conn.close();

}

} catch (final SQLException e) {

e.printStackTrace();

}

}

protected void doGet(final HttpServletRequest request, final HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

final PrintWriter out = response.getWriter();

try {

final String searchName = request.getParameter("searchName");

String sql = "SELECT \* FROM railway\_crossings";

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

sql += " WHERE name LIKE '%" + searchName + "%'";

}

final PreparedStatement statement = conn.prepareStatement(sql);

final ResultSet resultSet = statement.executeQuery();

List<Integer> favoriteCrossings = (List<Integer>) request.getSession().getAttribute("favoriteCrossings");

if (favoriteCrossings == null) {

favoriteCrossings = new ArrayList<>();

request.getSession().setAttribute("favoriteCrossings", favoriteCrossings);

}

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Railway Crossings</title>");

out.println("<style>");

out.println("table {");

out.println(" font-family: Arial, sans-serif;");

out.println(" border-collapse: collapse;");

out.println(" width: 100%;");

out.println("}");

out.println("th, td {");

out.println(" border: 1px solid #ddd;");

out.println(" padding: 8px;");

out.println("}");

out.println("th {");

out.println(" background-color: #f2f2f2;");

out.println("}");

out.println("a.button {");

out.println(" background-color: #4CAF50;");

out.println(" border: none;");

out.println(" color: white;");

out.println(" padding: 8px 16px;");

out.println(" text-align: center;");

out.println(" text-decoration: none;");

out.println(" display: inline-block;");

out.println(" font-size: 14px;");

out.println(" margin: 4px 2px;");

out.println(" cursor: pointer;");

out.println("}");

out.println("</style>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Railway Crossings</h1>");

out.println("<h2>Search Railway Crossing</h2>");

out.println("<form method=\"GET\" action=\"DashboardServlet\">");

out.println("<input type=\"text\" name=\"searchName\" placeholder=\"Enter name\">");

out.println("<input type=\"submit\" value=\"Search\">");

out.println("</form>");

out.println("<table>");

out.println("<tr><th>ID</th><th>Name</th><th>Address</th><th>Landmark</th><th>Schedules</th><th>Person</th><th>Status</th><th>Action</th></tr>");

while (resultSet.next()) {

final int id = resultSet.getInt("id");

final String name = resultSet.getString("name");

final String address = resultSet.getString("address");

final String landmark = resultSet.getString("landmark");

final String schedules = resultSet.getString("schedules");

final String person = resultSet.getString("person");

final String status = resultSet.getString("status");

out.println("<tr>");

out.println("<td>" + id + "</td>");

out.println("<td>" + name + "</td>");

out.println("<td>" + address + "</td>");

out.println("<td>" + landmark + "</td>");

out.println("<td>" + schedules + "</td>");

out.println("<td>" + person + "</td>");

out.println("<td>" + status + "</td>");

if (favoriteCrossings.contains(id)) {

out.println("<td><a href=\"DashboardServlet?removeFavorite=" + id + "\" class=\"button\">Remove Favorite</a></td>");

} else {

out.println("<td><a href=\"DashboardServlet?markFavorite=" + id + "\" class=\"button\">Mark Favorite</a></td>");

}

out.println("</tr>");

}

out.println("</table>");

out.println("<h2>Favorite Railway Crossings</h2>");

out.println("<form method=\"GET\" action=\"FavoriteCrossingsServlet\">");

out.println("<input type=\"hidden\" name=\"action\" value=\"seeFavorites\">");

out.println("<input type=\"submit\" value=\"See Favorite Crossings\" class=\"button\">");

out.println("</form>");

out.println("</body>");

out.println("</html>");

statement.close();

} catch (final SQLException e) {

e.printStackTrace();

out.println("Database error: " + e.getMessage());

}

}

}

DeleteRailwayCrossingServlet.java

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet("/DeleteRailwayCrossingServlet")

public class DeleteRailwayCrossingServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

// JDBC database URL, username, and password

private static final String DB\_URL ="jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

protected void doGet(HttpServletRequest request, HttpServletResponse

response) throws ServletException, IOException {

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

try {

// Register the JDBC driver

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

// Create a connection to the database

Connection conn = DriverManager.getConnection(DB\_URL,DB\_USERNAME, DB\_PASSWORD);

// Prepare the SQL statement

String sql = "DELETE FROM railway\_crossings WHERE id = ?";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setInt(1, id);

// Execute the statement

int rowsDeleted = statement.executeUpdate();

statement.close();

conn.close();

if (rowsDeleted > 0) {

// Railway crossing deleted successfully

response.sendRedirect("GetRailwayDetailsServlet");

} else {

// Failed to delete railway crossing

response.getWriter().println("Failed to delete railway crossing. Please try again.");

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

}

}

}

FavouriteCrossingsServlet.java

package com;

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 java.util.List;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet("/FavoriteCrossingsServlet")

public class FavoriteCrossingsServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

private static final String DB\_URL = "jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

private static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

private Connection conn;

@Override

public void init() throws ServletException {

super.init();

try {

Class.forName(JDBC\_DRIVER);

conn = DriverManager.getConnection(DB\_URL, DB\_USERNAME, DB\_PASSWORD);

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

throw new ServletException("Database connection error: " + e.getMessage());

}

}

@Override

public void destroy() {

super.destroy();

try {

if (conn != null && !conn.isClosed()) {

conn.close();

}

} catch (SQLException e) {

e.printStackTrace();

}

}

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

try {

List<Integer> favoriteCrossings = (List<Integer>) request.getSession().getAttribute("favoriteCrossings");

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

if (action != null && action.equals("seeFavorites")) {

if (favoriteCrossings == null || favoriteCrossings.isEmpty()) {

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Favorite Railway Crossings</title>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Favorite Railway Crossings</h1>");

out.println("<p>No favorite crossings found.</p>");

out.println("</body>");

out.println("</html>");

return;

}

}

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Favorite Railway Crossings</title>");

out.println("<style>");

out.println("table {");

out.println(" font-family: Arial, sans-serif;");

out.println(" border-collapse: collapse;");

out.println(" width: 100%;");

out.println("}");

out.println("th, td {");

out.println(" border: 1px solid #ddd;");

out.println(" padding: 8px;");

out.println("}");

out.println("th {");

out.println(" background-color: #f2f2f2;");

out.println("}");

out.println("</style>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Favorite Railway Crossings</h1>");

if (favoriteCrossings == null || favoriteCrossings.isEmpty()) {

out.println("<p>No favorite crossings found.</p>");

} else {

String sql = "SELECT \* FROM railway\_crossings WHERE id IN (";

for (int i = 0; i < favoriteCrossings.size(); i++) {

sql += favoriteCrossings.get(i);

if (i < favoriteCrossings.size() - 1) {

sql += ",";

}

}

sql += ")";

PreparedStatement statement = conn.prepareStatement(sql);

ResultSet resultSet = statement.executeQuery();

out.println("<table>");

out.println("<tr><th>ID</th><th>Name</th><th>Address</th><th>Landmark</th><th>Schedules</th><th>Person</th><th>Status</th></tr>");

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

String address = resultSet.getString("address");

String landmark = resultSet.getString("landmark");

String schedules = resultSet.getString("schedules");

String person = resultSet.getString("person");

String status = resultSet.getString("status");

out.println("<tr>");

out.println("<td>" + id + "</td>");

out.println("<td>" + name + "</td>");

out.println("<td>" + address + "</td>");

out.println("<td>" + landmark + "</td>");

out.println("<td>" + schedules + "</td>");

out.println("<td>" + person + "</td>");

out.println("<td>" + status + "</td>");

out.println("</tr>");

}

out.println("</table>");

statement.close();

}

out.println("<a href=\"DashboardServlet\">Back to Dashboard</a>");

out.println("</body>");

out.println("</html>");

} catch (SQLException e) {

e.printStackTrace();

out.println("Database error: " + e.getMessage());

}

}

}

GetRailwayDetailsServlet.java

package com;

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 jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet("/GetRailwayDetailsServlet")

public class GetRailwayDetailsServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

// JDBC database URL, username, and password

private static final String DB\_URL = "jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

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

response.setContentType("text/html");

PrintWriter out = response.getWriter();

try {

// Create a connection to the database

Connection conn = DriverManager.getConnection(DB\_URL, DB\_USERNAME, DB\_PASSWORD);

// Prepare the SQL statement

String sql = "SELECT \* FROM railway\_crossings";

PreparedStatement statement = conn.prepareStatement(sql);

// Execute the query

ResultSet resultSet = statement.executeQuery();

// Generate HTML output

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Railway Crossings</title>");

out.println("<style>");

out.println("table { border-collapse: collapse; width: 100%; }");

out.println("th, td { text-align: left; padding: 8px; }");

out.println("th { background-color: #f2f2f2; }");

out.println("tr:nth-child(even) { background-color: #f2f2f2; }");

out.println("</style>");

out.println("</head>");

out.println("<body>");

out.println("<h1>Railway Crossings</h1>");

out.println("<table>");

out.println("<tr><th>ID</th><th>Name</th><th>Address</th><th>Landmark</th><th>Schedules</th><th>Person</th><th>Status</th><th>Favorite</th><th>Action</th></tr>");

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

String address = resultSet.getString("address");

String landmark = resultSet.getString("landmark");

String schedules = resultSet.getString("schedules");

String person = resultSet.getString("person");

String status = resultSet.getString("status");

String favourite = resultSet.getString("favourite");

out.println("<tr>");

out.println("<td>" + id + "</td>");

out.println("<td>" + name + "</td>");

out.println("<td>" + address + "</td>");

out.println("<td>" + landmark + "</td>");

out.println("<td>" + schedules + "</td>");

out.println("<td>" + person + "</td>");

out.println("<td>" + status + "</td>");

out.println("<td>" + favourite + "</td>");

out.println("<td><a href='update\_railway.jsp?id=" + id + "'>Update</a> | <a href='DeleteRailwayCrossingServlet?id=" + id + "'>Delete</a></td>");

out.println("</tr>");

}

out.println("</table>");

out.println("</body>");

out.println("</html>");

statement.close();

conn.close();

} catch (SQLException e) {

e.printStackTrace();

out.println("Database error: " + e.getMessage());

}

}

}

GovernmentLoginServlet.java;

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

import jakarta.servlet.annotation.WebServlet;

@WebServlet(value = "/GovernmentLoginServlet")

public class GovernmentLoginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

private static final String DB\_URL =

"jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

protected void doPost(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException {

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

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

try {

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

Connection conn = DriverManager.getConnection(DB\_URL,

DB\_USERNAME, DB\_PASSWORD);

String sql = "SELECT \* FROM admin WHERE email = ? AND password = ?";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setString(1, email);

statement.setString(2, password);

ResultSet resultSet = statement.executeQuery();

if (resultSet.next()) {

HttpSession session = request.getSession();

session.setAttribute("email", email);

response.sendRedirect("add\_railway.html");

} else {

response.getWriter().println("Invalid email or password. Please try again.");

}

resultSet.close();

statement.close();

conn.close();

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

}

}

}

GovernmentRegisterServlet.java;

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet(value = "/GovernmentRegisterServlet")

public class GovernmentRegisterServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

private static final String DB\_URL =

"jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

protected void doPost(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException {

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

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

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

try {

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

Connection conn = DriverManager.getConnection(DB\_URL,

DB\_USERNAME, DB\_PASSWORD);

String sql = "INSERT INTO admin (name, email, password) VALUES (?, ?, ?)";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setString(1, name);

statement.setString(2, email);

statement.setString(3, password);

int rowsInserted = statement.executeUpdate();

statement.close();

conn.close();

if (rowsInserted > 0) {

response.sendRedirect("government\_login.jsp");

} else {

response.getWriter().println("Registration failed. Please try again.");

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

}

}

}

LoginServlet.java;

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.http.HttpSession;

import jakarta.servlet.annotation.WebServlet;

@WebServlet(value = "/login")

public class LoginServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

// JDBC database URL, username, and password

private static final String DB\_URL = "jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

protected void doPost(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException {

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

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

try {

// Load the MySQL JDBC driver

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

// Create a connection to the database

Connection conn = DriverManager.getConnection(DB\_URL,

DB\_USERNAME, DB\_PASSWORD);

// Prepare the SQL statement

String sql = "SELECT \* FROM users WHERE email = ? AND password = ?";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setString(1, email);

statement.setString(2, password);

// Execute the statement

ResultSet resultSet = statement.executeQuery();

if (resultSet.next()) {

// Login successful, create a session for the user

HttpSession session = request.getSession();

session.setAttribute("email", email);

response.sendRedirect("DashboardServlet");

} else {

// Login failed, display an error message

response.getWriter().println("Invalid email or password. Please try again.");

}

resultSet.close();

statement.close();

conn.close();

} catch (ClassNotFoundException e) {

e.printStackTrace();

response.getWriter().println("MySQL JDBC driver not found.");

} catch (SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

}

}

}

RailwayCrossingServlet.java;

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet(value = "/RailwayCrossingServlet")

public class RailwayCrossingServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

// JDBC database URL, username, and password

private static final String DB\_URL =

"jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

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 schedules = request.getParameter("schedules");

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

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

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

System.out.println(favourite);

try {

// Register JDBC driver

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

// Create a connection to the database

Connection conn = DriverManager.getConnection(DB\_URL,

DB\_USERNAME, DB\_PASSWORD);

// Prepare the SQL statement

String sql = "INSERT INTO railway\_crossings (name, address,landmark, schedules, person, status,favourite) " +

"VALUES (?, ?, ?, ?, ?, ?,?)";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setString(1, name);

statement.setString(2, address);

statement.setString(3, landmark);

statement.setString(4, schedules);

statement.setString(5, person);

statement.setString(6, status);

statement.setString(7, favourite);

// Execute the statement

int rowsInserted = statement.executeUpdate();

statement.close();

conn.close();

if (rowsInserted > 0) {

// Railway crossing added successfully

response.sendRedirect("GetRailwayDetailsServlet");

} else {

// Failed to add railway crossing

response.getWriter().println("Failed to add railway crossing.Please try again.");

}

} catch (ClassNotFoundException | SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

}

}

}

RegisterServlet.java;

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet(value = "/register")

public class RegisterServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

// JDBC database URL, username, and password

private static final String DB\_URL =

"jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

protected void doPost(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException {

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

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

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

try {

// Load the MySQL JDBC driver

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

// Create a connection to the database

Connection conn = DriverManager.getConnection(DB\_URL,

DB\_USERNAME, DB\_PASSWORD);

// Prepare the SQL statement

String sql = "INSERT INTO users (name, email, password) VALUES (?, ?, ?)";

PreparedStatement statement = conn.prepareStatement(sql);

statement.setString(1, name);

statement.setString(2, email);

statement.setString(3, password);

// Execute the statement

int rowsInserted = statement.executeUpdate();

statement.close();

conn.close();

if (rowsInserted > 0) {

// Registration successful, redirect to login page

response.sendRedirect("login.jsp");

} else {

// Registration failed, display an error message

response.getWriter().println("Registration failed. Please try again.");

}

} catch (ClassNotFoundException e) {

e.printStackTrace();

response.getWriter().println("MySQL JDBC driver not found.");

} catch (SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

}

}

}

UpdateRailwayCrossingServlet.java;

package com;

import java.io.IOException;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

import jakarta.servlet.ServletException;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import jakarta.servlet.annotation.WebServlet;

@WebServlet("/UpdateRailwayCrossingServlet")

public class UpdateRailwayCrossingServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

// JDBC database URL, username, and password

private static final String DB\_URL = "jdbc:mysql://localhost:3306/railway";

private static final String DB\_USERNAME = "root";

private static final String DB\_PASSWORD = "Harsha2001$";

// JDBC driver class name

private static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

protected void doPost(HttpServletRequest request, HttpServletResponse

response)

throws ServletException, IOException {

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

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

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

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

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

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

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

Connection conn = null;

PreparedStatement statement = null;

try {

// Register the JDBC driver

Class.forName(JDBC\_DRIVER);

// Create a connection to the database

conn = DriverManager.getConnection(DB\_URL, DB\_USERNAME,

DB\_PASSWORD);

// Prepare the SQL statement

String sql = "UPDATE railway\_crossings SET name=?, address=?, landmark=?, schedules=?, person=?, status=? WHERE id=?";

statement = conn.prepareStatement(sql);

statement.setString(1, name);

statement.setString(2, address);

statement.setString(3, landmark);

statement.setString(4, schedules);

statement.setString(5, person);

statement.setString(6, status);

statement.setInt(7, id);

// Execute the statement

int rowsUpdated = statement.executeUpdate();

if (rowsUpdated > 0) {

// Railway crossing updated successfully

response.sendRedirect("GetRailwayDetailsServlet");

} else {

// Failed to update railway crossing

response.getWriter().println("Failed to update railway crossing. Please try again.");

}

} catch (ClassNotFoundException e) {

e.printStackTrace();

response.getWriter().println("JDBC driver not found.");

} catch (SQLException e) {

e.printStackTrace();

response.getWriter().println("Database error: " + e.getMessage());

} finally {

// Close the resources

if (statement != null) {

try {

statement.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

if (conn != null) {

try {

conn.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

}

}

FROM HERE ON CONTAINS .JSP CODE PAGES

add\_railway.html;

<!**DOCTYPE** html>

<**html**>

<**head**>

<**title**>Add Railway Crossing</**title**>

<**style**>

body {

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

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

}

.container {

text-align: *center*;

max-width: *500px*;

margin: *0 auto*;

padding: *20px*;

}

h1 {

margin-bottom: *20px*;

}

label {

display: *block*;

margin-bottom: *5px*;

font-weight: *bold*;

}

input[type="text"],

textarea,

select {

width: *100%*;

padding: *10px*;

margin-bottom: *15px*;

border: *1px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

select {

height: *38px*;

}

input[type="submit"] {

background-color: *#4CAF50*;

color: *white*;

padding: *10px 20px*;

border: *none*;

border-radius: *4px*;

cursor: *pointer*;

width: *100%*;

}

input[type="submit"]:hover {

background-color: *#45a049*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h1**>Add Railway Crossing</**h1**>

<**form** action=*"RailwayCrossingServlet"* method=*"POST"*>

<**label** for=*"name"*>Name:</**label**>

<**input** type=*"text"* id=*"name"* name=*"name"* required>

<**label** for=*"address"*>Address:</**label**>

<**input** type=*"text"* id=*"address"* name=*"address"* required>

<**label** for=*"landmark"*>Landmark:</**label**>

<**input** type=*"text"* id=*"landmark"* name=*"landmark"* required>

<**label** for=*"schedules"*>Train Schedules:</**label**>

<**textarea** id=*"schedules"* name=*"schedules"* required></**textarea**>

<**label** for=*"person"*>Person in Charge:</**label**>

<**input** type=*"text"* id=*"person"* name=*"person"* required>

<**label** for=*"status"*>Status:</**label**>

<**select** id=*"status"* name=*"status"* required>

<**option** value=*"Open"*>Open</**option**>

<**option** value=*"Closed"*>Closed</**option**>

</**select**>

<**label** for=*"favourite"*>Favourite:</**label**>

<**select** id=*"favourite"* name=*"favourite"* required>

<**option** value=*"Yes"*>Yes</**option**>

<**option** value=*"No"*>No</**option**>

</**select**>

<**input** type=*"submit"* value=*"Add Railway Crossing"*>

</**form**>

</**div**>

</**body**>

</**html**>

Adminlogin.jsp;

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Admin Login Page</**title**>

<**style**>

body {

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

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

}

.container {

text-align: *center*;

cursor: *pointer*;

max-width: *500px*;

margin: *0 auto*;

padding: *20px*;

}

h2 {

margin-bottom: *20px*;

}

label {

display: *block*;

margin-bottom: *5px*;

font-weight: *bold*;

}

input[type="text"],

input[type="email"],

input[type="password"] {

width: *100%*;

padding: *10px*;

margin-bottom: *15px*;

border: *1px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

input[type="submit"] {

background-color: *#4CAF50*;

color: *white*;

padding: *10px 20px*;

border: *none*;

border-radius: *4px*;

cursor: *pointer*;

width: *100%*;

}

input[type="submit"]:hover {

background-color: *#45a049*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h2**>Admin Login</**h2**>

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

<**label** for=*"name"*>Enter Name:</**label**>

<**input** type=*"text"* id=*"name"* name=*"name"* required><**br**><**br**>

<**label** for=*"email"*>Enter Email:</**label**>

<**input** type=*"email"* id=*"email"* name=*"email"* required><**br**><**br**>

<**label** for=*"password"*>Enter Password:</**label**>

<**input** type=*"password"* id=*"password"* name=*"password"* required><**br**><**br**>

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

</**form**>

</**div**>

</**body**>

</**html**>

Adminusers.jsp;

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Admin User Login Page</**title**>

<**style**>

body {

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

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

}

.container {

text-align: *center*;

cursor: *pointer*;

max-width: *500px*;

margin: *0 auto*;

padding: *20px*;

}

h1 {

margin-bottom: *20px*;

}

h2 {

margin-bottom: *10px*;

}

label {

display: *block*;

margin-bottom: *5px*;

font-weight: *bold*;

}

input[type="text"],

input[type="email"],

input[type="password"] {

width: *100%*;

padding: *10px*;

margin-bottom: *15px*;

border: *1px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

input[type="submit"] {

background-color: *#4CAF50*;

color: *white*;

padding: *10px 20px*;

border: *none*;

border-radius: *4px*;

cursor: *pointer*;

width: *100%*;

}

input[type="submit"]:hover {

background-color: *#45a049*;

}

p {

margin-top: *10px*;

}

a {

color: *#4CAF50*;

text-decoration: *none*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h1**>Government User Registration</**h1**>

<**h2**>Please Fill in the Details</**h2**>

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

<**label** for=*"name"*>Name:</**label**>

<**input** type=*"text"* id=*"name"* name=*"name"* required><**br**><**br**>

<**label** for=*"email"*>Email:</**label**>

<**input** type=*"email"* id=*"email"* name=*"email"* required><**br**><**br**>

<**label** for=*"password"*>Password:</**label**>

<**input** type=*"password"* id=*"password"* name=*"password"* required><**br**><**br**>

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

</**form**>

<**p**><**a** href=*"government\_login.jsp"*>Sign In</**a**></**p**>

</**div**>

</**body**>

</**html**>

Government\_login.jsp;

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Government Login</**title**>

<**style**>

body {

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

margin: *0*;

padding: *0*;

}

h1 {

text-align: *center*;

}

form {

width: *300px*;

margin: *0 auto*;

}

label {

display: *block*;

margin-bottom: *5px*;

}

input[type="email"],

input[type="password"] {

width: *100%*;

padding: *10px*;

margin-bottom: *10px*;

}

input[type="submit"] {

width: *100%*;

padding: *10px*;

background-color: *#4CAF50*;

color: *white*;

border: *none*;

cursor: *pointer*;

}

input[type="submit"]:hover {

background-color: *#45a049*;

}

p {

text-align: *center*;

margin-top: *20px*;

}

</**style**>

</**head**>

<**body**>

<**h1**>Government Login</**h1**>

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

<**label** for=*"email"*>Email:</**label**>

<**input** type=*"email"* name=*"email"* id=*"email"* required><**br**>

<**label** for=*"password"*>Password:</**label**>

<**input** type=*"password"* name=*"password"* id=*"password"* required><**br**>

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

</**form**>

<**p**>Not registered yet? <**a** href=*"government\_register.jsp"*>Register</**a**></**p**>

</**body**>

</**html**>

Home.jsp;

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

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Home Page</**title**>

<**style**>

body {

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *50vh*;

}

.container {

text-align: *center*;

}

h1 {

margin-bottom: *20px*;

}

h3 {

margin-bottom: *10px*;

}

ul {

list-style-type: *none*;

padding: *0*;

}

li {

margin-bottom: *10px*;

}

a {

color: *#000*;

text-decoration: *none*;

}

a:hover {

text-decoration: *underline*;

color : *lightgreen*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h1** style = "color:*Red*">Welcome to the Railway Crossing Application</**h1**>

<**h3**>Please Select an option given below & Select the Services</**h3**>

<**ul**>

<**li**><**a** href=*"adminusers.jsp"*>Admin Section</**a**></**li**>

<**li**><**a** href=*"register.jsp"*>User Section</**a**></**li**>

</**ul**>

</**div**>

</**body**>

</**html**>

Login.jsp;

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>User Login</**title**>

<**style**>

body {

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

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

background-color: *#f2f2f2*;

}

.container {

text-align: *center*;

background-color: *#ffffff*;

padding: *40px*;

border-radius: *5px*;

box-shadow: *0 2px 5px rgba(0, 0, 0, 0.1)*;

}

.container h1 {

font-size: *24px*;

margin-bottom: *20px*;

}

.container h2 {

font-size: *18px*;

margin-bottom: *20px*;

}

.container form {

margin-top: *20px*;

}

.container label {

display: *block*;

margin-bottom: *10px*;

font-weight: *bold*;

}

.container input[type="email"],

.container input[type="password"] {

width: *100%*;

padding: *10px*;

margin-bottom: *20px*;

border: *1px solid #ccc*;

border-radius: *4px*;

font-size: *16px*;

}

.container input[type="submit"] {

width: *100%*;

padding: *10px*;

background-color: *#4CAF50*;

color: *#fff*;

border: *none*;

border-radius: *4px*;

font-size: *16px*;

cursor: *pointer*;

}

.container p {

margin-top: *20px*;

}

.container p a {

color: *#0645AD*;

text-decoration: *none*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h1**>Railway Crossing</**h1**>

<**h2**>User Login</**h2**>

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

<**label** for=*"email"*>Enter Email:</**label**>

<**input** type=*"email"* id=*"email"* name=*"email"* required><**br**><**br**>

<**label** for=*"password"*>Enter Password:</**label**>

<**input** type=*"password"* id=*"password"* name=*"password"* required><**br**><**br**>

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

</**form**>

<**p**>Don't have an account? <**a** href=*"register.jsp"*>Create New Account</**a**></**p**>

</**div**>

</**body**>

</**html**>

Register.jsp;

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Register Page</**title**>

<**style**>

body {

background-color: *#f2f2f2*;

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

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

}

.container {

text-align: *center*;

padding: *20px*;

border-radius: *5px*;

background-color: *#fff*;

box-shadow: *0 0 10px rgba(0, 0, 0, 0.1)*;

}

h1 {

margin-bottom: *20px*;

color: *#333*;

}

h2 {

color: *dimgrey*;

margin-bottom: *10px*;

}

form {

margin-top: *20px*;

}

label {

display: *inline-block*;

text-align: *right*;

width: *120px*;

margin-right: *10px*;

}

input[type="text"],

input[type="email"],

input[type="password"] {

width: *200px*;

padding: *5px*;

border-radius: *3px*;

border: *1px solid #ccc*;

}

input[type="submit"] {

background-color: *#4caf50*;

color: *#fff*;

padding: *8px 20px*;

border-radius: *3px*;

border: *none*;

cursor: *pointer*;

}

p {

margin-top: *10px*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h1**>Railway Crossing</**h1**>

<**h2**>User Register</**h2**>

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

<**label** for=*"name"*>Enter Name:</**label**>

<**input** type=*"text"* id=*"name"* name=*"name"* required><**br**><**br**>

<**label** for=*"email"*>Enter Email:</**label**>

<**input** type=*"email"* id=*"email"* name=*"email"* required><**br**><**br**>

<**label** for=*"password"*>Enter Password:</**label**>

<**input** type=*"password"* id=*"password"* name=*"password"* required><**br**><**br**>

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

</**form**>

<**p**>Already have an account? <**a** href=*"login.jsp"*>Login</**a**></**p**>

</**div**>

</**body**>

</**html**>

Update\_railway.jsp;

<!**DOCTYPE** html>

<**html**>

<**head**>

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

<**title**>Railway Update</**title**>

<**style**>

body {

display: *flex*;

justify-content: *center*;

align-items: *center*;

height: *100vh*;

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

}

.container {

max-width: *500px*;

padding: *20px*;

background-color: *#f2f2f2*;

border-radius: *5px*;

}

h1 {

text-align: *center*;

margin-bottom: *20px*;

}

label {

display: *block*;

margin-bottom: *5px*;

}

input[type="text"] {

width: *100%*;

padding: *10px*;

margin-bottom: *15px*;

border: *1px solid #ccc*;

border-radius: *4px*;

box-sizing: *border-box*;

}

input[type="submit"] {

background-color: *#4CAF50*;

color: *white*;

padding: *10px 20px*;

border: *none*;

border-radius: *4px*;

cursor: *pointer*;

width: *100%*;

}

input[type="submit"]:hover {

background-color: *#45a049*;

}

</**style**>

</**head**>

<**body**>

<**div** class=*"container"*>

<**h1**>Update Railway Crossing</**h1**>

<%

String idParam = request.getParameter("id");

int id = (idParam != null && !idParam.isEmpty()) ? Integer.parseInt(idParam) : 0;

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

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

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

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

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

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

%>

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

<**input** type=*"hidden"* name=*"id"* value=*"*<%= id %>*"*>

<**label** for=*"name"*>Name:</**label**>

<**input** type=*"text"* name=*"name"* id=*"name"* value=*"*<%= (name != null) ? name : "" %>*"*>

<**label** for=*"address"*>Address:</**label**>

<**input** type=*"text"* name=*"address"* id=*"address"* value=*"*<%= (address != null) ? address : "" %>*"*>

<**label** for=*"landmark"*>Landmark:</**label**>

<**input** type=*"text"* name=*"landmark"* id=*"landmark"* value=*"*<%= (landmark != null) ? landmark : "" %>*"*>

<**label** for=*"schedules"*>Schedules:</**label**>

<**input** type=*"text"* name=*"schedules"* id=*"schedules"* value=*"*<%= (schedules != null) ? schedules : "" %>*"*>

<**label** for=*"person"*>Person:</**label**>

<**input** type=*"text"* name=*"person"* id=*"person"* value=*"*<%= (person != null) ? person : "" %>*"*>

<**label** for=*"status"*>Status:</**label**>

<**input** type=*"text"* name=*"status"* id=*"status"* value=*"*<%= (status != null) ? status : "" %>*"*>

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

</**form**>

</**div**>

</**body**>

</**html**>

SQL CODE IN MYSQL WORKBENCH

create database railway;

use railway;

CREATE TABLE railway\_crossings (

id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(255),

address VARCHAR(255),

landmark VARCHAR(255),

schedules VARCHAR(255),

person VARCHAR(255),

status VARCHAR(255),

favourite VARCHAR(255)

);

select\*from railway\_crossings;

use railway;

CREATE TABLE railway.admin (

id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(255),

email VARCHAR(255),

password VARCHAR(255)

);

select\*from railway.admin;

use railway;

CREATE TABLE railway.users (

id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(255),

email VARCHAR(255),

password VARCHAR(255)

);

select\*from railway.users;

create table favoriteCrossings(

id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(255),

address VARCHAR(255),

landmark VARCHAR(255),

schedules VARCHAR(255),

person VARCHAR(255),

status VARCHAR(255),

favourite VARCHAR(255)

);

SELECT railway.railway\_crossings.id, favoritecrossings.id

FROM railway\_crossings

JOIN favoriteCrossings ON railway.railway\_crossings.id = favoriteCrossings.id;