dashboardServlet.java

```
package com.ecommerce;
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 javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.annotation.WebServlet;
@WebServlet("/DashboardServlet")
public class dashboardServlet extends HttpServlet {
private static final long serialVersionUID = 1L;
// JDBC database URL, <u>username</u>, 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 = "Mounika@1297";
// JDBC driver and connection variables
private static final String JDBC DRIVER = "com.mysql.jdbc.Driver";
private Connection conn;
@Override
public void init() throws ServletException {
super.init();
try {
// Register JDBC driver
Class.forName(JDBC DRIVER);
// Open a connection to the database
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 {
// Close the database connection
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();
// Prepare the SQL statement
String searchName = request.getParameter("searchName");
String sql = "SELECT * FROM railway crossings";
if (searchName != null && !searchName.isEmpty()) {
sql += " WHERE name LIKE '%" + searchName + "%'";
PreparedStatement statement = conn.prepareStatement(sql);
// Execute the query
ResultSet resultSet = statement.executeQuery();
// Retrieve favorite crossings from session
List<Integer> favoriteCrossings = (List<Integer>)
request.getSession().getAttribute("favoriteCrossings");
if (favoriteCrossings == null) {
favoriteCrossings = new ArrayList<>();
request.getSession().setAttribute("favoriteCrossings",
favoriteCrossings);
// Generate HTML output
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>Railway Crossings</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1>Railway Crossings</h1>");
// Search form
out.println("<h2>Search Railway Crossing</h2>");
out.println("<form method=\"GET\" action=\"DashboardServlet\">");
out.println("<input type=\"text\" name=\"searchName\"placeholder=\"Enter</pre>
name\">");
out.println("<input type=\"submit\" value=\"Search\">");
out.println("</form>");
out.println("");
out.println("IDNameAddressLandmark<
th>SchedulesPersonStatusAction");
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("");
out.println("" + id + "");
out.println("" + name + "");
out.println("" + address + "");
out.println("" + landmark + "");
out.println("" + schedules + "");
out.println("" + person + "");
out.println("" + status + "");
if (favoriteCrossings.contains(id)) {
out.println("<a href=\"DashboardServlet?removeFavorite=" + id +
"\">Remove Favorite</a>");
} else {
```

```
out.println("<a href=\"DashboardServlet?markFavorite=" +</pre>
id + "\">Mark Favorite</a>");
out.println("");
out.println("");
// Option to see favorite crossings
out.println("<h2>Favorite Railway Crossings</h2>");
out.println("<form method=\"GET\" action=\"FavoriteCrossingsServlet\">");
out.println("<input type=\"submit\" value=\"See Favorite Crossings\">");
out.println("</form>");
out.println("</body>");
out.println("</html>");
statement.close();
} catch (SQLException e) {
e.printStackTrace();
out.println("Database error: " + e.getMessage());
}
}
RailwayCrossingServlet.java
package com.ecommerce;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.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 = "Mounika@1297";
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());
}
}
}
LoginServlet
package com.ecommerce;
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 javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
import javax.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 = "Mounika@1297";
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());
}
}
}
```

DeleteRailwayCrossingServlet

```
package com.ecommerce;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.annotation.WebServlet;
@WebServlet("/DeleteRailwayCrossingServlet")
public class DeleteRailwayCrossingServlet extends HttpServlet {
private static final long serialVersionUID = 1L;
// JDBC database URL, \underline{\text{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 = "Mounika@1297";
protected void doGet(HttpServletRequest request, HttpServletResponse
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());
}
}
}
```

FavoriteCrossingsServlet

```
package com.ecommerce;

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

```
@WebServlet("/FavoriteCrossingsServlet")
public class FavoriteCrossingsServlet 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 = "Mounika@1297";
// JDBC driver and connection variables
private static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
private Connection conn;
@Override
public void init() throws ServletException {
super.init();
try {
// Register JDBC driver
Class.forName(JDBC_DRIVER);
// Open a connection to the database
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 {
// Close the database connection
if (conn != null && !conn.isClosed()) {
```

```
conn.close();
}
} catch (SQLException e) {
e.printStackTrace();
}
}
protected\ void\ do Get (HttpServletRequest\ request,\ HttpServletResponse
response)
throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
try {
// Retrieve favorite crossings from session
List<Integer> favoriteCrossings = (List<Integer>)
request.getSession().getAttribute("favoriteCrossings");
System.out.println(favoriteCrossings);
// Generate HTML output
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>");
if (favoriteCrossings == null || favoriteCrossings.isEmpty()) {
out.println("No favorite crossings found.");
} else {
// Prepare the SQL statement
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) {</pre>
sql += ",";
}
}
sql += ")";
PreparedStatement statement = conn.prepareStatement(sql);
// Execute the query
ResultSet resultSet = statement.executeQuery();
out.println("");
out.println("IDNameAddressLandmarkSchedules</t
h>PersonStatus");
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("");
out.println("" + id + "");
out.println("" + name + "");
out.println("" + address + "");
out.println("" + landmark + "");
out.println("" + schedules + "");
out.println("" + person + "");
out.println("" + status + "");
out.println("");
}
```

```
out.println("");
statement.close();
}
out.println("</body>");
out.println("</html>");
} catch (SQLException e) {
e.printStackTrace();
out.println("Database error: " + e.getMessage());
}
}
```

GetRailwayDetailsServlet

```
package com.ecommerce;
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.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.annotation.WebServlet;
@WebServlet("/GetRailwayDetailsServlet")
public class GetRailwayDetailsServlet extends HttpServlet {
private static final long serialVersionUID = 1L;
// JDBC database URL, \underline{\text{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 = "Mounika@1297";
protected void doGet (HttpServletRequest request, HttpServletResponse
response)
throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();
// 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("</head>");
out.println("<body>");
out.println("<h1>Railway Crossings</h1>");
out.println("");
out.println("IDNameAddressLandmar
kSchedulesPersonStatus");
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("");
out.println("" + id + "");
out.println("" + name + "");
out.println("" + address + "");
out.println("" + landmark + "");
out.println("" + schedules + "");
out.println("" + person + "");
out.println("" + status + "");
out.println("" + favourite + "");
out.println("<a href='update railway.jsp?id=" + id +
"'>Update</a> | <a href='DeleteRailwayCrossingServlet?id=" + id +
"'>Delete</a>");
out.println("");
out.println("");
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.ecommerce;
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 javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import javax.servlet.http.HttpSession;
import javax.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 = "Mounika@1297";
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.ecommerce;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.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 = "Mounika@1297";
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.ecommerce;
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 javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
```

```
import javax.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 = "Mounika@1297";
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());
}
RailwayServlet.java
package com.ecommerce;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.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 = "Mounika@1297";
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
package com.ecommerce;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import javax.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 = "Mounika@1297";
// 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();
}
}
}
}
Add railwaycrossing.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html><head>
<title>Add Railway Crossing</title>
</head>
<body>
<h1>Add Railway Crossing</h1>
<form action="RailwayCrossingServlet" method="POST">
<label for="name">Name:</label>
<input type="text" id="name" name="name" required="">
<br >><br>>
<label for="address">Address:</label>
<input type="text" id="address" name="address" required="">
<br><br><br>>
<label for="landmark">Landmark:</label>
<input type="text" id="landmark" name="landmark" required="">
<br><br><br>>
<label for="schedules">Train Schedules:</label>
<textarea id="schedules" name="schedules" required=""></textarea>
<br >><br>>
<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>
Government login.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h2>Government User Login</h2>
    <form action="GovernmentLoginServlet" method="post">
        <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"</pre>
required><br><br>
        <input type="submit" value="Login">
    </form>
</body>
</html>
Government user.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1>Govt. User Registration</h1>
    <h2>Government User Registration</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"</pre>
required><br><br>
        <input type="submit" value="Register">
    </form>
     <a href="government login.jsp">sign in</a>
</body>
</html>
Home.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
   pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1>Welcome to the Railway Crossing Application</h1>
    <h3>Select from below option:</h3>
    <l
        <a href="government users.jsp">Government Section</a>
        <a href="register.jsp">User Section</a>
```

```
</body>
```

Login.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<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></pr>
<label for="password">Enter Password:</label>
<input type="password" id="password" name="password"</pre>
required><br><br>
<input type="submit" value="Login">
</form>
<br>
On't have an account? <a href="register.jsp">Create New</a>
Account</a>
</body>
</html>
Register.jsp
package com.ecommerce;
import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.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 = "Mounika@1297";
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());
}
}
}
Update_railway.jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<h1>Update Railway Crossing</h1>
<h1>Update Railway Crossing</h1>
< %
// Retrieve the railway crossing details from the request parameters
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");
<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 %>">
<hr>
<label for="address">Address:</label>
<input type="text" name="address" id="address" value="<%= address</pre>
%>">
<br>
<label for="landmark">Landmark:</label>
<input type="text" name="landmark" id="landmark" value="<%=</pre>
landmark %>">
```

```
<br>
<label for="schedules">Schedules:</label>
<input type="text" name="schedules" id="schedules" value="<%=</pre>
schedules %>">
<br>
<label for="person">Person:</label>
<input type="text" name="person" id="person" value="<%= person</pre>
응>">
<br>
<label for="status">Status:</label>
<input type="text" name="status" id="status" value="<%= status %>">
<input type="submit" value="Update">
</form>
</body>
</html>
SQL COMMAND:
CREATE DATABASE railway;
use railway;
Create Table railwaycrossings(Id INT, name varchar(100), address
varchar(100),landmark varchar(100),
trainschedule varchar(100, person varchar(100), status varchar(200));
insert into
railwaycrossings(Id, name, address, landmark, trainschedule, person, status)
values(''isheet chowk crossing'', 'isheet singh near party people', '
isheet singh near party people', ' 10:33 AM', 'David', 'Open');
insert into
railwaycrossings (name, address, landmark, trainschedule, detailsperson, status)
values('Midha Chowk crossing', 'midhacrossing', 'midhacrossing', '10:40
AM', 'Robin', 'Open');
insert into
railwaycrossings (name, address, landmark, trainschedule, detailsperson, status)
values('ABC Crossing', 'citypark', 'citypark', '11.40 AM', 'Robin',
'Open');
SELECT* FROM railway;
Create Table USER(email varchar(100), password varchar(100));
Insert into USER(email,password)
Values("ABC@example.com","Abc123@978");
Values("<a href="mailto:CDE@example.com">CDE@example.com</a>","cde123@123");
Values("FGH@example.com","fgh123@456");
```

Select *From USER;