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</title>
<style>
body {
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    text-align: center;
    background-color: #f2f2f2;
}

.panel {
    width: 400px;
    padding: 40px;
    background-color: #ffffff;
    border-radius: 5px;
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.panel label {
    display: block;
    margin-bottom: 10px;
    text-align: left;
}

.panel input[type="text"], .panel input[type="password"] {
    width: 100%;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 4px;
}

.panel button[type="submit"] {
    width: 100%;
    padding: 10px;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}
```

```
.panel button[type="submit"]:hover {
    background-color: #45a049;
}

.panel .signup-link {
    display: block;
    margin-top: 20px;
}
</style>
</head>
<body>
    <div class="panel">
        <h2>Railway Crossing</h2>
        <h4>Admin Login</h4>
        <form action="adminLogin" method="post">
            <label for="email">Email:</label> <input
type="text" id="email"
                name="email" required><br> <label
for="password">Password:</label>
            <input type="password" id="password"
name="password" required><br>
            <button type="submit">Login</button>
        </form>
    </div>
</body>
</html>
```

adminHome.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
    pageEncoding="UTF-8"%>
<%@ page import="com.simpli.RailwayCrossing"%>
<%@ page import="com.simpli.RailwayCrossingDAO"%>
<%@ page import="java.util.List"%>

<%
// Create an instance of RailwayCrossingDAO
RailwayCrossingDAO crossingDAO = new RailwayCrossingDAO();

// Retrieve all crossings from the DAO
List<RailwayCrossing> crossings =
crossingDAO.getAllCrossings();

// Get the ID from the search request parameter
String searchId = request.getParameter("searchId");

// Check if the searchId parameter is provided
if (searchId != null && !searchId.isEmpty()) {
     // Parse the searchId as an int
     int crossingId = Integer.parseInt(searchId);

     // Retrieve the crossing by ID from the DAO
     RailwayCrossing searchedCrossing =
crossingDAO.getCrossingById(crossingId);

     // Set the crossing as an attribute to be displayed in
the table
     request.setAttribute("crossing", searchedCrossing);
}
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Admin Home Page</title>
<style>
/* Button Styles */
.button-container {
     display: flex;
     justify-content: flex-start;
     margin-bottom: 10px;
     margin-left: 5px;
}

.button-container form {
     margin-right: 100px;
}

.button-container input[type="text"] {
     margin-right: 5px;
     padding: 5px;
     border-radius: 4px;
     border: 1px solid #ccc;
}

.button-container button[type="submit"] {
     padding: 10px 20px;
     border-radius: 4px;
     border: none;
     background-color: #B6B6B6;
     font-weight: bold;
     color: black;
     cursor: pointer;
}

.button-container button[type="submit"]:hover {
     background-color: #45a049;
}
```

```
.update-button, .delete-button {
    display: inline-block;
    vertical-align: middle;
    margin-right: 10px;
    padding: 7px;
    width: 80px;
    height: 30px;
}

/* Table Styles */
table {
    border-collapse: collapse;
    width: 100%;
}

th, td {
    text-align: left;
    padding: 8px;
    border-bottom: 1px solid #ddd;
}

th {
    background-color: #f2f2f2;
}

/* Responsive Styles */
@media only screen and (max-width: 768px) {
    .button-container form {
        margin-right: 5px;
    }
    .update-button, .delete-button {
        float: none;
        margin-right: 5px;
        margin-bottom: 5px;
    }
}
</style>
</head>
<body>
    <h1>Admin Home Page</h1>
    <h3>
        Railway Crossing[<%=crossings.size()%>]
    </h3>

    <!-- Buttons -->
    <div class="button-container">
        <form action="HomePage.jsp" method="post">
            <button type="submit">Home</button>
        </form>
        <form action="addRailCrossingForm.jsp"
method="post">
```

```
               <button type="submit">Add Railway
Crossing</button>
          </form>
          <form action="searchCrossing" method="post">
               <input type="text" name="searchId"
placeholder="Enter ID">
               <button type="submit">Search Crossing</button>
          </form>
          <form action="adminHome.jsp" method="post">
               <button type="submit">Display All Railway
Crossings</button>
          </form>
          <!-- Logout Button -->
          <form action="adminRegister.jsp" method="post">
               <button type="submit">Logout</button>
          </form>
     </div>

     <!-- Table -->
     <table>
          <thead>
               <tr>
                    <th>Sr.No</th>
                    <th>Name</th>
                    <th>Address</th>
                    <th>Landmark</th>
                    <th>Train Schedule</th>
                    <th>Person In-Charge</th>
                    <th>Status</th>
                    <th>Action</th>
               </tr>
          </thead>
          <tbody>
               <%
               if (request.getAttribute("crossing") != null) {
// Check if a specific crossing is found
                    RailwayCrossing crossing =
(RailwayCrossing) request.getAttribute("crossing");
               %>
               <tr>
                    <td><%=crossing.getId()%></td>
                    <td><%=crossing.getName()%></td>
                    <td><%=crossing.getAddress()%></td>
                    <td><%=crossing.getLandmark()%></td>
                    <td><%=crossing.getTrainSchedule()%></td>
                    <td><%=crossing.getPersonInCharge()%></td>
                    <td><%=crossing.getStatus()%></td>
                    <td></td>
               </tr>
               <%
               } else { // Display all crossings
               for (RailwayCrossing anotherCrossing :
crossings) {
               %>
               <tr>
                    <td><%=anotherCrossing.getId()%></td>
                    <td><%=anotherCrossing.getName()%></td>
                    <td><%=anotherCrossing.getAddress()%></td>

     <td><%=anotherCrossing.getLandmark()%></td>

     <td><%=anotherCrossing.getTrainSchedule()%></td>

     <td><%=anotherCrossing.getPersonInCharge()%></td>
                    <td><%=anotherCrossing.getStatus()%></td>
                    <td>
                         <form
action="updateRailCrossingForm.jsp" method="post">
                              <input type="hidden" name="id"

     value="<%=anotherCrossing.getId()%>">
                              <button type="submit"
class="update-button">Update</button>
                         </form>
                         <form action="deleteCrossing"
method="post">
                              <input type="hidden" name="id"

     value="<%=anotherCrossing.getId()%>">
                              <button type="submit"
class="delete-button">Delete</button>
                         </form>
                    </td>
               </tr>
               <%
               }
               }
               %>
          </tbody>
     </table>
</body>
</html>
```

addRailCrossingForm

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

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Add Railway Crossing</title>
<style>
body {
     display: flex;
     justify-content: center;
     align-items: center;
     height: 100vh;
     text-align: center;
     background-color: #f2f2f2;
}

.panel {
     width: 500px;
     padding: 40px;
     background-color: #ffffff;
     border-radius: 5px;
     box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.panel label {
     display: block;
     margin-bottom: 10px;
     text-align: left;
}

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

.panel button[type="submit"] {
     width: 100%;
     padding: 10px;
     background-color: #4CAF50;
     color: white;
     border: none;
     border-radius: 4px;
     cursor: pointer;
}

.panel button[type="submit"]:hover {
     background-color: #45a049;
}
</style>
</head>
```

```
<body>
     <div class="panel">
          <h2>Railway Crossings</h2>
          <h4>Add Railway Crossing Information</h4>
          <form action="addCrossing" method="post">
               <label for="name">Enter Name</label> <input
type="text" id="name"
                    name="name" required><br> <label
for="address">Address</label>
               <input type="text" id="address" name="address"
required><br>
               <label for="landmark">Landmark</label> <input
type="text"
                    id="landmark" name="landmark"
required><br> <label
                    for="trainSchedules">Train
Schedules</label> <input type="text"
                    id="trainSchedules" name="trainSchedules"
required><br>
               <label for="personInCharge">Person in
Charge</label> <input
                    type="text" id="personInCharge"
name="personInCharge" required><br>
               <label for="status">Crossing Status</label>
<select id="status"
                    name="status">
                    <option value="Open">Open</option>
                    <option value="Closed">Closed</option>
               </select><br>
               <button type="submit">Submit</button>
          </form>
     </div>
</body>
</html>
```

Homepage.jsp

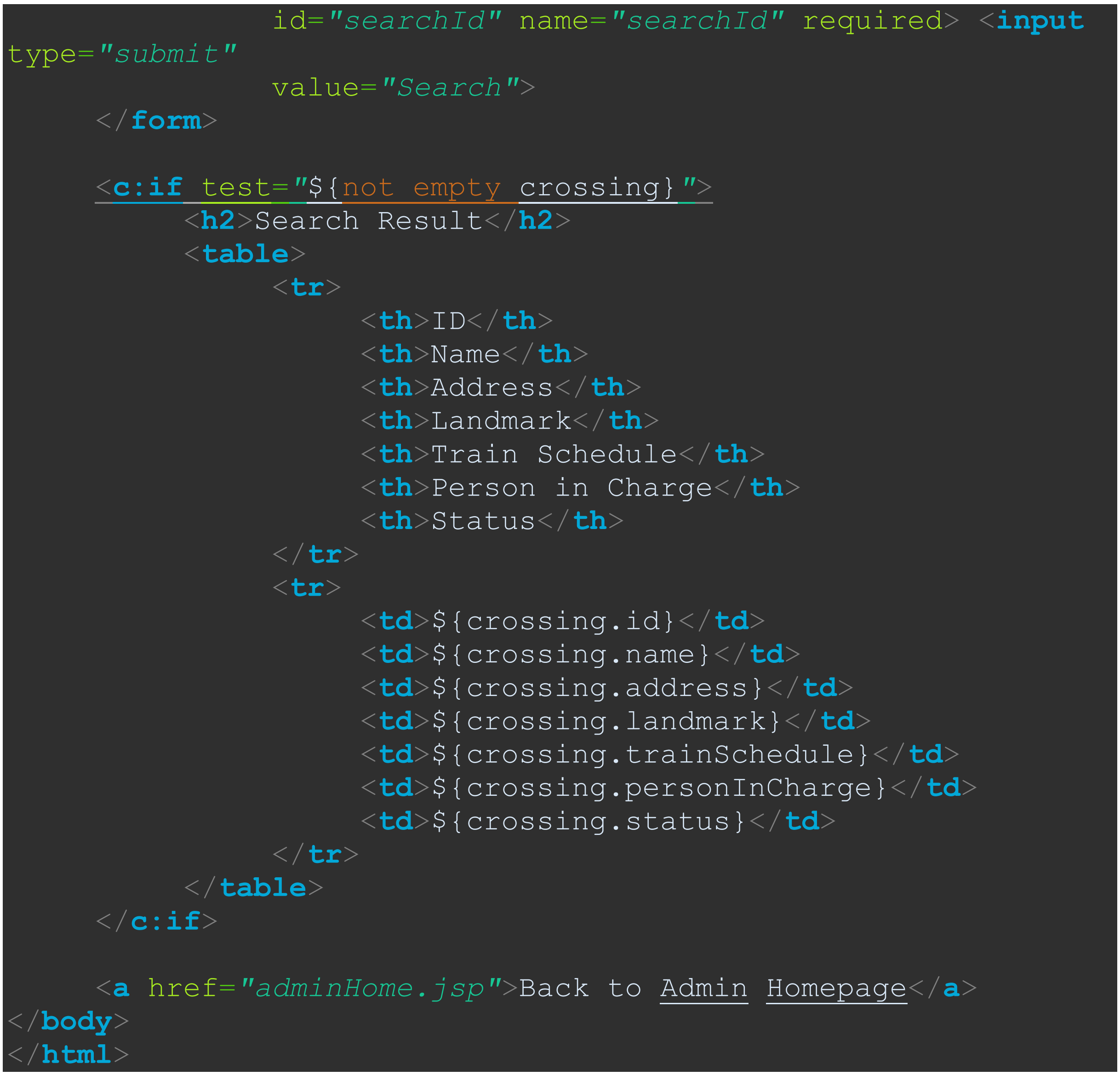
```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-
scale=1">
<title>Railway Crossing Status</title>
<link
```

```
     href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/c
ss/bootstrap.min.css"
     rel="stylesheet"
     integrity="sha384-
9ndCyUaIbzAi2FUVXJi0CjmCapSmO7SnpJef0486qhLnuZ2cdeRhO02iuK6FUU
VM"
     crossorigin="anonymous">

<style>
body {
     background-image:

     url("https://source.unsplash.com/1000x1000/?nature,mounta
in");
     background-repeat: no-repeat;
     background-size: cover;
}

.navbar-brand span.quiz-text {
     color: red;
}

.navbar-nav.custom-ml-auto {
     margin-left: auto;
}

.navbar-nav.custom-ml-auto .nav-item {
     margin-left: 10px;
}
</style>
</head>
<body>
     <nav
          class="navbar navbar-expand-lg bg-body-tertiary
navbar-dark border-bottom border-bottom-dark"
          data-bs-theme="dark">
          <div class="container-fluid">
               <a class="navbar-brand" href="#">Railway
Crossing Status</a>
               <button class="navbar-toggler" type="button"
                    data-bs-toggle="collapse" data-bs-
target="#navbarSupportedContent"
                    aria-controls="navbarSupportedContent"
aria-expanded="false"
                    aria-label="Toggle navigation">
                    <span class="navbar-toggler-icon"></span>
               </button>
               <div class="collapse navbar-collapse"
id="navbarSupportedContent">
                    <ul class="navbar-nav custom-ml-auto">
```

```
                         <!-- Move the "Home", "Quiz",
"Login/Signup" links to the right using custom CSS -->
                         <li class="nav-item"><a class="nav-
link active"
                              aria-current="page"
href="#">Home</a></li>
                         <li class="nav-item"><a class="nav-
link" href="adminLogin.jsp">Admin-Login/Signup</a></li>
                         <li class="nav-item"><a class="nav-
link" href="userLogin.jsp">User-Login/Signup</a>
                         </li>
                    </ul>
               </div>
          </div>
     </nav>
     <script

     src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js
/bootstrap.bundle.min.js"
          integrity="sha384-
geWF76RCwLtnZ8qwWowPQNguL3RmwHVBC9FhGdlKrxdiJJigb/j/68SIy3Te4B
kz"
          crossorigin="anonymous"></script>
</body>
</html>
```

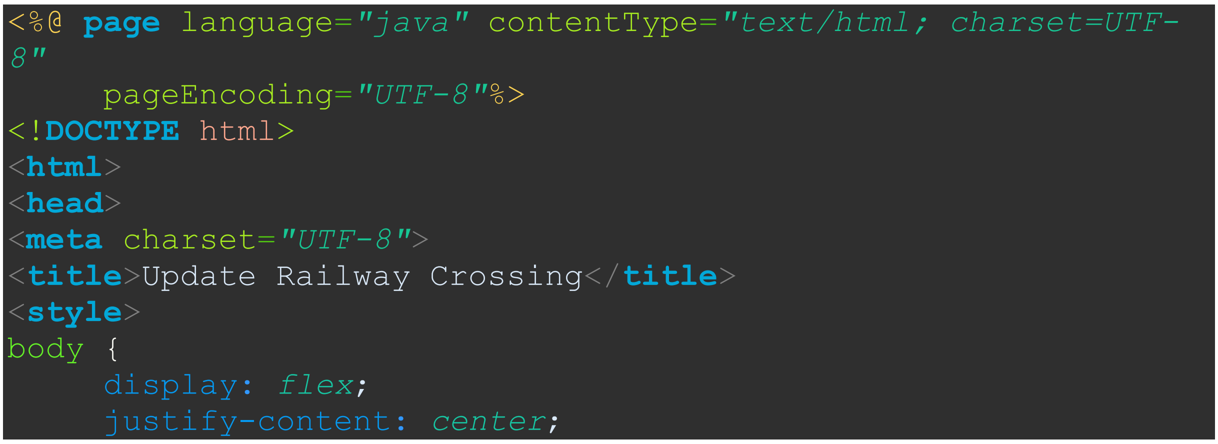
searchCrossing.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<%@ taglib prefix="c"
uri="http://java.sun.com/jsp/jstl/core"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Search Crossing</title>
</head>

<body>
     <h1>Search Crossing</h1>

     <form action="searchCrossing" method="post">
          <label for="searchId">Search ID:</label> <input
type="number"
```



```
               id="searchId" name="searchId" required> <input
type="submit"
               value="Search">
     </form>

     <c:if test="${not empty crossing}">
          <h2>Search Result</h2>
          <table>
               <tr>
                    <th>ID</th>
                    <th>Name</th>
                    <th>Address</th>
                    <th>Landmark</th>
                    <th>Train Schedule</th>
                    <th>Person in Charge</th>
                    <th>Status</th>
               </tr>
               <tr>
                    <td>${crossing.id}</td>
                    <td>${crossing.name}</td>
                    <td>${crossing.address}</td>
                    <td>${crossing.landmark}</td>
                    <td>${crossing.trainSchedule}</td>
                    <td>${crossing.personInCharge}</td>
                    <td>${crossing.status}</td>
               </tr>
          </table>
     </c:if>

     <a href="adminHome.jsp">Back to Admin Homepage</a>
</body>
</html>
```

Update



```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Update Railway Crossing</title>
<style>
body {
     display: flex;
     justify-content: center;
```

```
	align-items: center;
	height: 100vh;
	text-align: center;
	background-color: #f2f2f2;
}

.panel {
	width: 500px;
	padding: 40px;
	background-color: #ffffff;
	border-radius: 5px;
	box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.panel label {
	display: block;
	margin-bottom: 10px;
	text-align: left;
}

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

.panel button[type="submit"] {
	width: 100%;
	padding: 10px;
	background-color: #4CAF50;
	color: white;
	border: none;
	border-radius: 4px;
	cursor: pointer;
}

.panel button[type="submit"]:hover {
	background-color: #45a049;
}
</style>
</head>
<body>
	<div class="panel">
		<h2>Railway Crossings</h2>
		<h4>Update Railway Crossing Information</h4>
		<form action="updateCrossing" method="post">
			<label for="crossingId">Crossing ID</label>
<input type="text"
				id="crossingId" name="crossingId"
value="${crossing.crossingId}"
```

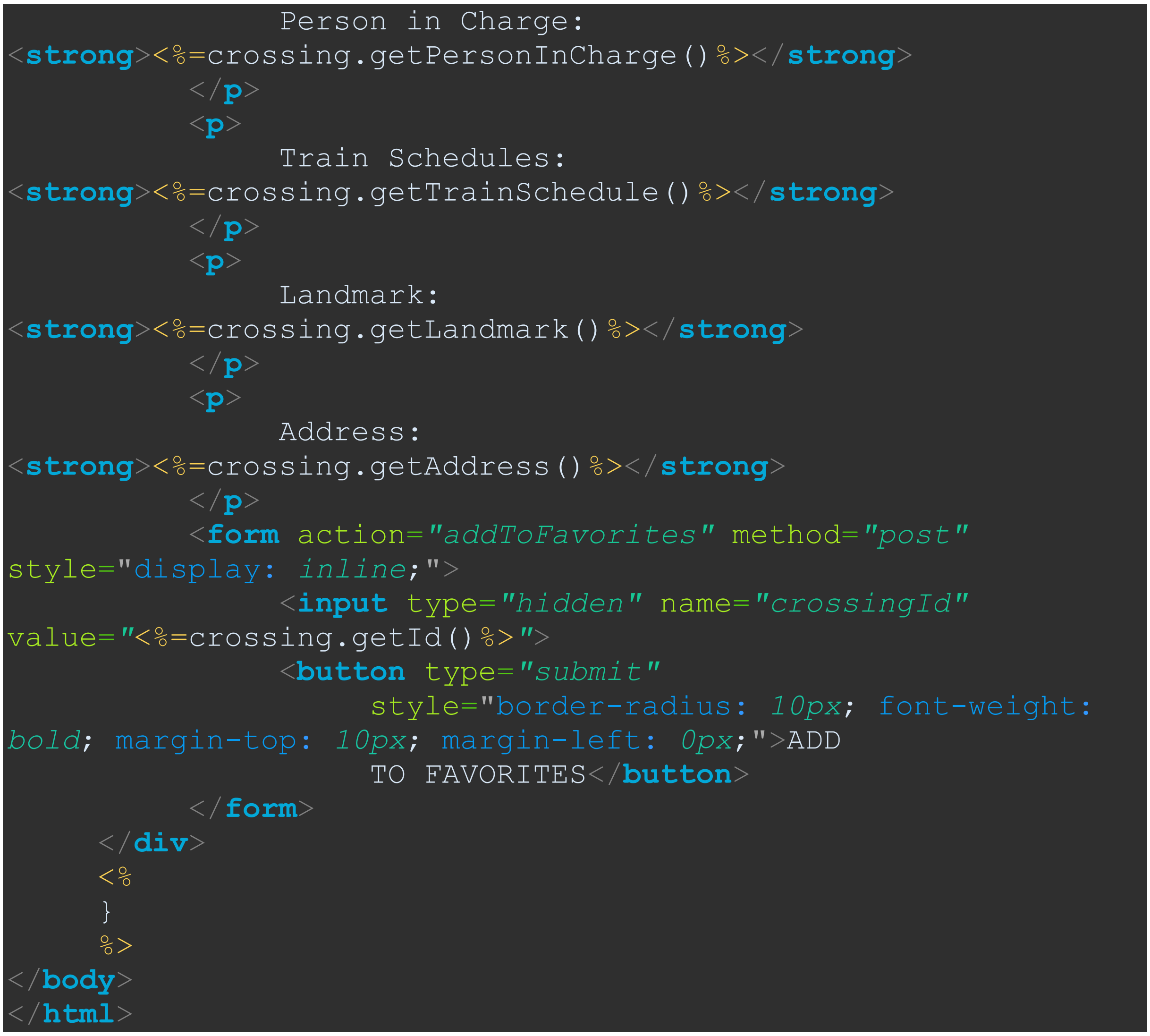
```
                    required><br> <label for="name">Enter
Name</label> <input
                    type="text" id="name" name="name"
value="${crossing.name}" required><br>
               <label for="address">Address</label> <input
type="text" id="address"
                    name="address" value="${crossing.address}"
required><br>
               <label for="landmark">Landmark</label> <input
type="text"
                    id="landmark" name="landmark"
value="${crossing.landmark}" required><br>
               <label for="trainSchedules">Train
Schedules</label> <input
                    type="text" id="trainSchedules"
name="trainSchedules"
                    value="${crossing.trainSchedule}"
required><br> <label
                    for="personInCharge">Person in
Charge</label> <input type="text"
                    id="personInCharge" name="personInCharge"
                    value="${crossing.personInCharge}"
required><br> <label
                    for="status">Crossing Status</label>
<select id="status"
                    name="status">
                    <option value="Open" ${crossing.status ==
'Open' ? 'selected' : ''}>Open</option>
                    <option value="Closed"
                         ${crossing.status == 'Closed' ?
'selected' : ''}>Closed</option>
               </select><br>
               <button type="submit">Submit</button>
          </form>
     </div>
</body>
</html>
```

userHome

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<%@ page import="com.simpli.RailwayCrossing"%>
<%@ page import="com.simpli.RailwayCrossingDAO"%>
<%@ page import="java.util.List"%>
<!DOCTYPE html>
<html>
<head>
```

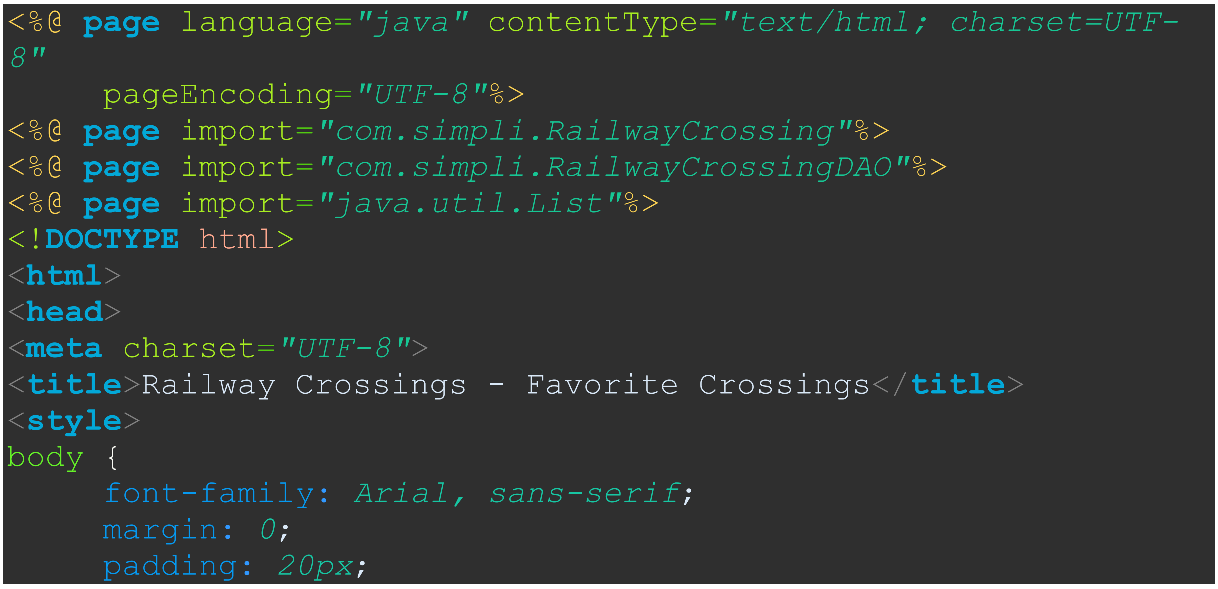
```
<meta charset="UTF-8">
<title>Railway Crossings - User Home Page</title>
<style>
body {
     font-family: Arial, sans-serif;
     margin: 0;
     padding: 20px;
}

.container {
     border: 1px solid #ccc;
     border-radius: 10px;
     padding: 20px;
     margin-bottom: 20px;
     margin-top: 20px;
}

.container h3 {
     margin-top: 0;
}

.container p {
     margin: 0;
}

.crossing {
     margin-bottom: 10px;
}

.crossing button {
     margin-left: 10px;
}

.status {
     display: inline-block;
     padding: 5px;
     font-weight: bold;
}

.status-open {
     color: white;
     border-radius: 30%;
     background-color: green;
}

.status-closed {
     color: white;
     background-color: red;
}
</style>
</head>
```

```
<body>
    <h1 style="font-weight: bold;">User Home Page</h1>

    <!-- Display Search Crossings button -->
    <button onclick="location.href='HomePage.jsp'"
        style="border-radius: 10px; font-weight:
bold;">Home</button>

    <!-- Display All button -->
    <button onclick="location.href='userHome.jsp'"
        style="border-radius: 10px; margin-left: 50px; font-
weight: bold;">All
        Crossings</button>

    <!-- Display Favorite Crossings button -->
    <button
onclick="location.href='userHomeFavoriteCrossing.jsp'"
        style="border-radius: 10px; margin-left: 50px; font-
weight: bold;">Favorite
        Crossings</button>

    <!-- Display Search Crossings button -->
    <button onclick="location.href='userSearchCrossing.jsp'"
        style="border-radius: 10px; margin-left: 50px; font-
weight: bold;">Search
        Crossings</button>

    <!-- Logout button -->
    <button onclick="location.href='userLogin.jsp'"
        style="border-radius: 10px; margin-left: 800px;
font-weight: bold;">Logout</button>

    <%-- Create an instance of RailwayCrossingDAO --%>
    <%
    RailwayCrossingDAO crossingDAO = new
RailwayCrossingDAO();
    List<RailwayCrossing> allCrossings =
crossingDAO.getAllCrossings();
    for (RailwayCrossing crossing : allCrossings) {
        String status = crossing.getStatus();
        String statusClass = status.equalsIgnoreCase("Open")
? "status-open" : "status-closed";
    %>
    <div class="container">
        <h3><%=crossing.getName()%></h3>
        <p>
            Status: <strong><span class="status
<%=statusClass%>"><%=crossing.getStatus()%></span></strong>
        </p>
        <p>
```



```
               Person in Charge:
<strong><%=crossing.getPersonInCharge()%></strong>
          </p>
          <p>
               Train Schedules:
<strong><%=crossing.getTrainSchedule()%></strong>
          </p>
          <p>
               Landmark:
<strong><%=crossing.getLandmark()%></strong>
          </p>
          <p>
               Address:
<strong><%=crossing.getAddress()%></strong>
          </p>
          <form action="addToFavorites" method="post"
style="display: inline;">
               <input type="hidden" name="crossingId"
value="<%=crossing.getId()%>">
               <button type="submit"
                    style="border-radius: 10px; font-weight:
bold; margin-top: 10px; margin-left: 0px;">ADD
                    TO FAVORITES</button>
          </form>
     </div>
     <%
     }
     %>
</body>
</html>
```

Favorite



```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<%@ page import="com.simpli.RailwayCrossing"%>
<%@ page import="com.simpli.RailwayCrossingDAO"%>
<%@ page import="java.util.List"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Railway Crossings - Favorite Crossings</title>
<style>
body {
     font-family: Arial, sans-serif;
     margin: 0;
     padding: 20px;
```

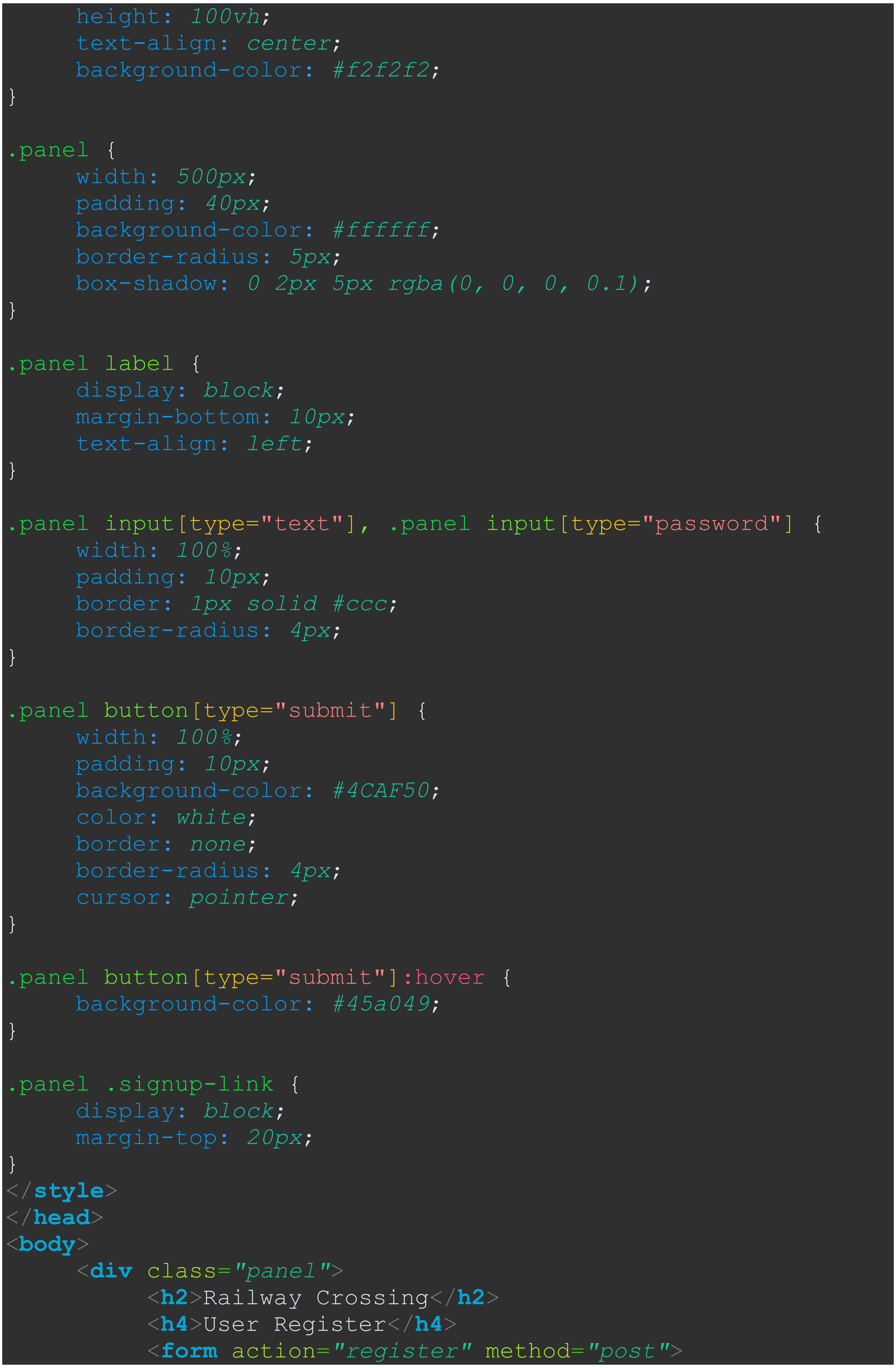
```
}

.container {
     border: 1px solid #ccc;
     border-radius: 10px;
     padding: 20px;
     margin-bottom: 20px;
     margin-top: 20px;
}

.container h3 {
     margin-top: 0;
}

.container p {
     margin: 0;
}

.status {
     display: inline-block;
     padding: 5px;
     color: white;
     font-weight: bold;
}

.status-open {
     background-color: green;
}

.status-closed {
     background-color: red;
}
</style>
</head>
<body>
     <h2>User Home Page</h2>

     <!-- Display All button -->
     <button onclick="location.href='userHome.jsp'">All
Crossings</button>

     <!-- Favorite Crossings Container -->
     <div class="favorites">
          <%
          RailwayCrossingDAO crossingDAO = new
RailwayCrossingDAO();
          List<RailwayCrossing> favoriteCrossings =
crossingDAO.getFavoriteCrossings();
          for (RailwayCrossing crossing : favoriteCrossings) {
               String status = crossing.getStatus();
               String statusClass = 
status.equalsIgnoreCase("Open") ? "status-open" : "status-
closed";
          %>
          <div class="container">
               <h3><%=crossing.getName()%></h3>
               <p>
                    Status: <strong><span class="status 
<%=statusClass%>"><%=status%></span></strong>
               </p>
               <p>
                    Person in Charge: 
<strong><%=crossing.getPersonInCharge()%></strong>
               </p>
               <p>
                    Train Schedules: 
<strong><%=crossing.getTrainSchedule()%></strong>
               </p>
               <p>
                    Landmark: 
<strong><%=crossing.getLandmark()%></strong>
               </p>
               <p>
                    Address: 
<strong><%=crossing.getAddress()%></strong>
               </p>
               <form action="removeFromFavorites" 
method="post"
                    style="display: inline;">
                    <input type="hidden" name="crossingId" 
value="<%=crossing.getId()%>">
                    <button type="submit"
                         style="border-radius: 10px; font-
weight: bold; margin-top: 10px;">REMOVE
                         FROM FAVORITES</button>
               </form>
          </div>
          <%
          }
          %>
     </div>
</body>
</html>
```

Userlogin

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
     pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>User Login</title>
<style>
body {
     display: flex;
     justify-content: center;
     align-items: center;
     height: 100vh;
     text-align: center;
     background-color: #f2f2f2;
}

.panel {
     width: 400px;
     padding: 40px;
     background-color: #ffffff;
     border-radius: 5px;
     box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.panel label {
     display: block;
     margin-bottom: 10px;
     text-align: left;
}

.panel input[type="text"], .panel input[type="password"] {
     width: 100%;
     padding: 10px;
     border: 1px solid #ccc;
     border-radius: 4px;
}

.panel button[type="submit"] {
     width: 100%;
     padding: 10px;
     background-color: #4CAF50;
     color: white;
     border: none;
     border-radius: 4px;
     cursor: pointer;
}

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

.panel .signup-link {
     display: block;
     margin-top: 20px;
}
</style>
</head>
<body>
     <div class="panel">
          <h2>Railway Crossing</h2>
          <h4>User Login</h4>
          <form action="login" method="post">
               <label for="email">Email:</label> <input
type="text" id="email"
                    name="email" required><br> <label
for="password">Password:</label>
               <input type="password" id="password"
name="password" required><br>
               <button type="submit">Login</button>
          </form>
          <div class="signup-link">
               <p>
                    Don't have an account? <a
href="userRegister.jsp">Create New
                         Account</a>
               </p>
          </div>
     </div>
</body>
</html>
```

Register

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>User Registration</title>
<style>
body {
     display: flex;
     justify-content: center;
     align-items: center;
```

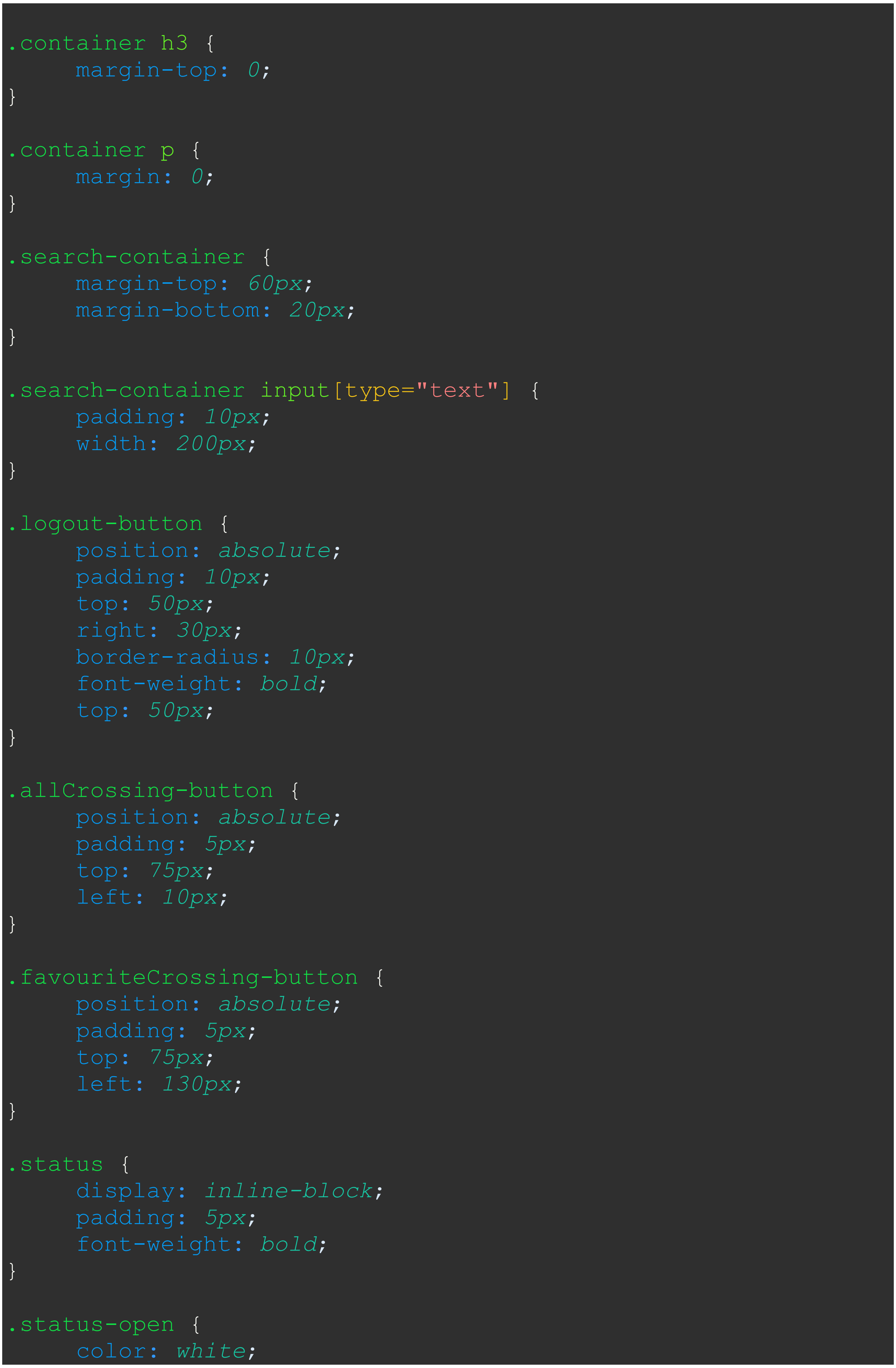


```
    height: 100vh;
    text-align: center;
    background-color: #f2f2f2;
}

.panel {
    width: 500px;
    padding: 40px;
    background-color: #ffffff;
    border-radius: 5px;
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.panel label {
    display: block;
    margin-bottom: 10px;
    text-align: left;
}

.panel input[type="text"], .panel input[type="password"] {
    width: 100%;
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 4px;
}

.panel button[type="submit"] {
    width: 100%;
    padding: 10px;
    background-color: #4CAF50;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

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

.panel .signup-link {
    display: block;
    margin-top: 20px;
}
</style>
</head>
<body>
    <div class="panel">
        <h2>Railway Crossing</h2>
        <h4>User Register</h4>
        <form action="register" method="post">
```

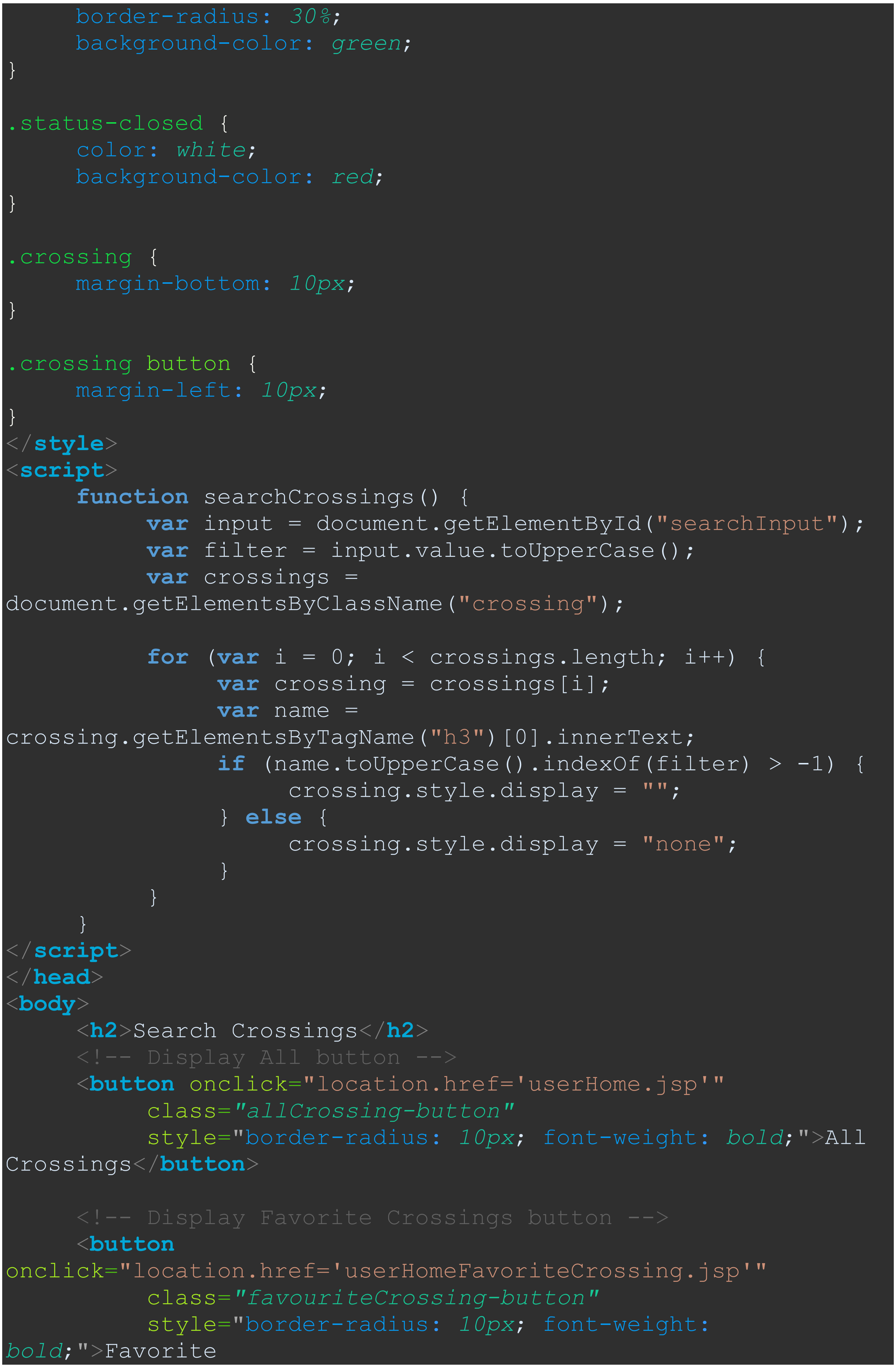
```
               <label for="name">Name:</label> <input
type="text" id="name"
                    name="name" required><br> <label
for="email">Email:</label>
               <input type="text" id="email" name="email"
required><br>
               <label for="password">Password:</label> <input
type="password"
                    id="password" name="password"
required><br>
               <button type="submit">Register</button>
          </form>
          <div class="signup-link">
               <p>
                    Already have an account? <a
href="userLogin.jsp">Sign in</a>
               </p>
          </div>
     </div>
</body>
</html>
```

searchCrossing

```
<%@ page language="java" contentType="text/html; charset=UTF-
8"
     pageEncoding="UTF-8"%>
<%@ page import="com.simpli.RailwayCrossing"%>
<%@ page import="com.simpli.RailwayCrossingDAO"%>
<%@ page import="java.util.List"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Railway Crossings - Search Crossings</title>
<style>
body {
     font-family: Arial, sans-serif;
     margin: 0;
     padding: 20px;
}

.container {
     border: 1px solid #ccc;
     border-radius: 10px;
     padding: 20px;
     margin-bottom: 20px;
     margin-top: 20px;
}
```



```
.container h3 {
     margin-top: 0;
}

.container p {
     margin: 0;
}

.search-container {
     margin-top: 60px;
     margin-bottom: 20px;
}

.search-container input[type="text"] {
     padding: 10px;
     width: 200px;
}

.logout-button {
     position: absolute;
     padding: 10px;
     top: 50px;
     right: 30px;
     border-radius: 10px;
     font-weight: bold;
     top: 50px;
}

.allCrossing-button {
     position: absolute;
     padding: 5px;
     top: 75px;
     left: 10px;
}

.favouriteCrossing-button {
     position: absolute;
     padding: 5px;
     top: 75px;
     left: 130px;
}

.status {
     display: inline-block;
     padding: 5px;
     font-weight: bold;
}

.status-open {
     color: white;
```



```
    border-radius: 30%;
    background-color: green;
}

.status-closed {
    color: white;
    background-color: red;
}

.crossing {
    margin-bottom: 10px;
}

.crossing button {
    margin-left: 10px;
}
</style>
<script>
    function searchCrossings() {
        var input = document.getElementById("searchInput");
        var filter = input.value.toUpperCase();
        var crossings =
document.getElementsByClassName("crossing");

        for (var i = 0; i < crossings.length; i++) {
            var crossing = crossings[i];
            var name =
crossing.getElementsByTagName("h3")[0].innerText;
            if (name.toUpperCase().indexOf(filter) > -1) {
                crossing.style.display = "";
            } else {
                crossing.style.display = "none";
            }
        }
    }
</script>
</head>
<body>
    <h2>Search Crossings</h2>
    <!-- Display All button -->
    <button onclick="location.href='userHome.jsp'"
        class="allCrossing-button"
        style="border-radius: 10px; font-weight: bold;">All
Crossings</button>

    <!-- Display Favorite Crossings button -->
    <button
onclick="location.href='userHomeFavoriteCrossing.jsp'"
        class="favouriteCrossing-button"
        style="border-radius: 10px; font-weight:
bold;">Favorite
```

```
          Crossings</button>

     <!-- Search input -->
     <div class="search-container">
          <input type="text" id="searchInput"
placeholder="Search by name"
               onkeyup="searchCrossings()">
          <!-- Logout button -->
          <button onclick="location.href='userLogin.jsp'"
class="logout-button"
               style="border-radius: 10px; font-weight:
bold;">Logout</button>
     </div>


     <!-- Search Results Container -->
     <div class="search-results">
          <%
          RailwayCrossingDAO crossingDAO = new
RailwayCrossingDAO();
          List<RailwayCrossing> allCrossings =
crossingDAO.getAllCrossings();
          for (RailwayCrossing crossing : allCrossings) {
               String status = crossing.getStatus();
               String statusClass =
status.equalsIgnoreCase("Open") ? "status-open" : "status-
closed";
          %>
          <div class="container crossing">
               <h3><%=crossing.getName()%></h3>
               <p>
                    Status: <strong><span class="status
<%=statusClass%>"><%=crossing.getStatus()%></span></strong>
               </p>
               <p>
                    Person in Charge:
<strong><%=crossing.getPersonInCharge()%></strong>
               </p>
               <p>
                    Train Schedules:
<strong><%=crossing.getTrainSchedule()%></strong>
               </p>
               <p>
                    Landmark:
<strong><%=crossing.getLandmark()%></strong>
               </p>
               <p>
                    Address:
<strong><%=crossing.getAddress()%></strong>
               </p>
               <form action="addToFavorites" method="post"
style="display: inline;">
                    <input type="hidden" name="crossingId"
value="<%=crossing.getId()%>">
                    <button type="submit"
                         style="border-radius: 10px; font-
weight: bold; margin-top: 10px; margin-left: 0px;">ADD
                         TO FAVORITES</button>
               </form>
          </div>
          <%
          }
          %>
     </div>
</body>
</html>
```

databaseConnection.java

```
package com.simpli;


import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;


public class DatabaseConnection {
	public static final String DRIVER_CLASS="com.mysql.cj.jdbc.Driver";


	private static final String URL = "jdbc:mysql://localhost:3306/railcross";

	private static final String USERNAME = "root";

	private static final String PASSWORD = "Pass@06";


	public static Connection getConnection() {

		Connection connection = null;
		try {
			Class.forName("com.mysql.jdbc.Driver");
			connection = DriverManager.getConnection(URL, USERNAME, PASSWORD);
		} catch (ClassNotFoundException | SQLException e) {
			e.printStackTrace();
		}
		return connection;
	}
}
```

loginServlet.java

```
package com.simpli;

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("/login")
public class LoginServlet extends HttpServlet {
	private static final long serialVersionUID = -7871431906478802827L;

	protected void doPost(HttpServletRequest request, HttpServletResponse response)
			throws ServletException, IOException {
		// Retrieve the form data
```

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

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


        // Check if the provided credentials are valid

        UserDAO userDAO = new UserDAO();

        User user = userDAO.getUserByEmail(email);


        if (user != null && user.getPassword().equals(password)) {

            // Authentication successful

            // You can store user details in session for further use

            HttpSession session = request.getSession();

            session.setAttribute("user", user);


            // Redirect to a success page or perform any other necessary actions

            response.sendRedirect("userHome.jsp");

        } else {

            // Authentication failed

            // Redirect to an error page or display an error message

            response.sendRedirect("userRegister.jsp?error=1");

        }

    }

}
```

User.java

```
package com.simpli;

public class User {
     private String name;
     private String email;
```

```
	private String password;

	public User() {
		super();
	}

	public User(String name, String email, String password) {
		this.name = name;
		this.email = email;
		this.password = password;
	}

	public String getName() {
		return name;
	}

	public void setName(String name) {
		this.name = name;
	}

	public String getEmail() {
		return email;
	}

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

	public String getPassword() {
		return password;
	}

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

userDAO

package com.simpli;

import java.sql.Connection;

```
import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;


public class UserDAO {

    private Connection connection;


    public UserDAO() {

        // Initialize the database connection

        connection = DatabaseConnection.getConnection();

    }


    public void registerUser(User user) {

        try {

            String query = "INSERT INTO user_signup (name, email, password) VALUES
(?, ?, ?)";

            PreparedStatement statement = connection.prepareStatement(query);

            statement.setString(1, user.getName());

            statement.setString(2, user.getEmail());

            statement.setString(3, user.getPassword());

            statement.executeUpdate();

        } catch (SQLException e) {

            e.printStackTrace();

        }

    }


    public boolean loginUser(String email, String password) {

        try {

            String query = "SELECT * FROM user_signup WHERE email=? AND
password=?";

            PreparedStatement statement = connection.prepareStatement(query);

            statement.setString(1, email);
```

```
                statement.setString(2, password);
                ResultSet resultSet = statement.executeQuery();
                return resultSet.next();
            } catch (SQLException e) {
                e.printStackTrace();
            }
            return false;
        }

        public User getUserByEmail(String email) {
            try {
                String query = "SELECT * FROM user_signup WHERE email=?";
                PreparedStatement statement = connection.prepareStatement(query);
                statement.setString(1, email);
                ResultSet resultSet = statement.executeQuery();

                if (resultSet.next()) {
                    User user = new User();
                    user.setName(resultSet.getString("name"));
                    user.setEmail(resultSet.getString("email"));
                    user.setPassword(resultSet.getString("password"));
                    return user;
                }
            } catch (SQLException e) {
                e.printStackTrace();
            }
            return null;
        }

    }
```

addCrossing

```
package com.simpli;

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;

@WebServlet(name = "AddCrossingServlet", urlPatterns = { "/addCrossing" })
public class AddCrossingServlet extends HttpServlet {


    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        // Retrieve the form data from the request
        String name = request.getParameter("name");
        String address = request.getParameter("address");
        String landmark = request.getParameter("landmark");
        String trainSchedules = request.getParameter("trainSchedules");
        String personInCharge = request.getParameter("personInCharge");
        String status = request.getParameter("status");

        // Create a new RailwayCrossing object with the form data
        RailwayCrossing crossing = new RailwayCrossing();
        crossing.setName(name);
        crossing.setAddress(address);
        crossing.setLandmark(landmark);
        crossing.setTrainSchedule(trainSchedules);
        crossing.setPersonInCharge(personInCharge);
        crossing.setStatus(status);

        // Save the new crossing to the database
        RailwayCrossingDAO crossingDAO = new RailwayCrossingDAO();
        crossingDAO.addCrossing(crossing);

        // Redirect to the admin homepage after adding the crossing
        response.sendRedirect("adminHome.jsp");
    }
}
```

addfavoriteServlet

```
package com.simpli;

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;

public class AddToFavoritesServlet extends HttpServlet {


    private static final long serialVersionUID = 1L;

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String crossingId = request.getParameter("crossingId");
        if (crossingId != null && !crossingId.isEmpty()) {
            int railwayCrossingId = Integer.parseInt(crossingId);
            // Perform the database operation to add the crossing to favorites
            RailwayCrossingDAO crossingDAO = new RailwayCrossingDAO();
            crossingDAO.addToFavorites(railwayCrossingId); // Implement this method in RailwayCrossingDAO
        }
        // Redirect back to the userHome.jsp page
        response.sendRedirect("userHome.jsp");
    }
}
```

adminHomepage

```
package com.simpli;

import java.io.IOException;
import java.util.List;

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

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

    public void init() {
        crossingDAO = new RailwayCrossingDAO();
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        // Fetch all railway crossing details from the database
        List<RailwayCrossing> crossings = crossingDAO.getAllCrossings();

        // Pass the crossing details to the JSP page
        request.setAttribute("crossings", crossings);
        request.getRequestDispatcher("adminHome.jsp").forward(request, response);
    }
}
```

Deletecrossing

```
package com.simpli;

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;

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

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

```
        // Retrieve the crossing ID from the request
        int crossingId = Integer.parseInt(request.getParameter("id"));

        // Perform the delete operation (implement your logic)
        RailwayCrossingDAO crossingDAO = new RailwayCrossingDAO();
        crossingDAO.deleteCrossing(crossingId);

        // Redirect to the admin homepage after the deletion
        response.sendRedirect("adminHome.jsp");
    }
}
```

railwayCrossingDAO

```
package com.simpli;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.List;

public class RailwayCrossingDAO {
    private Connection connection;

    public RailwayCrossingDAO() {
        // Initialize the database connection
        connection = DatabaseConnection.getConnection();
    }
```

```
// Fetch all values from the database
public List<RailwayCrossing> getAllCrossings() {
        List<RailwayCrossing> crossings = new ArrayList<>();
        try {
                String query = "SELECT * FROM railway_crossing";
                PreparedStatement statement = connection.prepareStatement(query);
                ResultSet resultSet = statement.executeQuery();
                while (resultSet.next()) {
                        RailwayCrossing crossing = new RailwayCrossing();
                        crossing.setId(resultSet.getInt("id"));
                        crossing.setName(resultSet.getString("name"));
                        crossing.setAddress(resultSet.getString("address"));
                        crossing.setLandmark(resultSet.getString("landmark"));
                        crossing.setTrainSchedule(resultSet.getString("train_schedule"));

crossing.setPersonInCharge(resultSet.getString("person_in_charge"));
                        crossing.setStatus(resultSet.getString("status"));
                        crossings.add(crossing);
                }
        } catch (SQLException e) {
                e.printStackTrace();
        }
        return crossings;
}

// Search values by id and display it from the database
public RailwayCrossing getCrossingById(int crossingId) {
        RailwayCrossing crossing = null;
        try {
                String query = "SELECT * FROM railway_crossing WHERE id = ?";
```

```
            PreparedStatement statement = connection.prepareStatement(query);
            statement.setInt(1, crossingId);
            ResultSet resultSet = statement.executeQuery();
            if (resultSet.next()) {
                crossing = new RailwayCrossing();
                crossing.setId(resultSet.getInt("id"));
                crossing.setName(resultSet.getString("name"));
                crossing.setAddress(resultSet.getString("address"));
                crossing.setLandmark(resultSet.getString("landmark"));
                crossing.setTrainSchedule(resultSet.getString("train_schedule"));

    crossing.setPersonInCharge(resultSet.getString("person_in_charge"));
                crossing.setStatus(resultSet.getString("status"));
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }
        return crossing;
    }


    // update the values in the database
    public void updateCrossing(RailwayCrossing crossing) {
        try {
            String query = "UPDATE railway_crossing SET name=?, address=?,
landmark=?, train_schedule=?, person_in_charge=?, status=? WHERE id=?";
            PreparedStatement statement = connection.prepareStatement(query);
            statement.setString(1, crossing.getName());
            statement.setString(2, crossing.getAddress());
            statement.setString(3, crossing.getLandmark());
            statement.setString(4, crossing.getTrainSchedule());
            statement.setString(5, crossing.getPersonInCharge());
            statement.setString(6, crossing.getStatus());
            statement.setInt(7, crossing.getId());
            statement.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    // Delete Railway Crossing
    public void deleteCrossing(int crossingId) {
        try {
            connection.setAutoCommit(false); // Start transaction

            // Delete associated favorite crossings
            String deleteFavoriteCrossingsQuery = "DELETE FROM favorite_crossing WHERE railway_crossing_id = ?";
            try (PreparedStatement deleteFavoriteCrossingsStatement = connection
                    .prepareStatement(deleteFavoriteCrossingsQuery)) {
                deleteFavoriteCrossingsStatement.setInt(1, crossingId);
                deleteFavoriteCrossingsStatement.executeUpdate();
            }

            // Delete the railway crossing
            String deleteRailwayCrossingQuery = "DELETE FROM railway_crossing WHERE id = ?";
            try (PreparedStatement deleteRailwayCrossingStatement = connection
                    .prepareStatement(deleteRailwayCrossingQuery)) {
                deleteRailwayCrossingStatement.setInt(1, crossingId);
                deleteRailwayCrossingStatement.executeUpdate();
            }

            connection.commit(); // Commit the transaction
            connection.setAutoCommit(true); // Reset auto-commit to true
        } catch (SQLException e) {
            try {
                connection.rollback(); // Rollback the transaction if an error occurs
            } catch (SQLException rollbackException) {
                rollbackException.printStackTrace();
            }
            e.printStackTrace();
        }
    }

    // Add values to the database
    public void addCrossing(RailwayCrossing crossing) {
        try {
            String query = "INSERT INTO railway_crossing (name, address, landmark, train_schedule, person_in_charge, status) VALUES (?, ?, ?, ?, ?, ?)";
            PreparedStatement statement = connection.prepareStatement(query);
            statement.setString(1, crossing.getName());
            statement.setString(2, crossing.getAddress());
            statement.setString(3, crossing.getLandmark());
            statement.setString(4, crossing.getTrainSchedule());
            statement.setString(5, crossing.getPersonInCharge());
            statement.setString(6, crossing.getStatus());
            statement.executeUpdate();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    public List<RailwayCrossing> getFavoriteCrossings() {
        List<RailwayCrossing> favoriteCrossings = new ArrayList<>();
        try (Connection connection = DatabaseConnection.getConnection()) {
            String query = "SELECT rc.* FROM railway_crossing rc "
                    + "JOIN favorite_crossing fc ON rc.id =
fc.railway_crossing_id";
            PreparedStatement statement = connection.prepareStatement(query);
            ResultSet resultSet = statement.executeQuery();

            while (resultSet.next()) {
                RailwayCrossing crossing = new RailwayCrossing();
                crossing.setId(resultSet.getInt("id"));
                crossing.setName(resultSet.getString("name"));
                crossing.setAddress(resultSet.getString("address"));
                crossing.setLandmark(resultSet.getString("landmark"));
                crossing.setTrainSchedule(resultSet.getString("train_schedule"));

    crossing.setPersonInCharge(resultSet.getString("person_in_charge"));
                crossing.setStatus(resultSet.getString("status"));

                favoriteCrossings.add(crossing);
            }
        } catch (SQLException e) {
            e.printStackTrace();
        }

        return favoriteCrossings;
    }

    public void addToFavorites(int crossingId) {
        try (Connection connection = DatabaseConnection.getConnection()) {
            String sql = "INSERT INTO favorite_crossing (railway_crossing_id) VALUES
(?)";
            PreparedStatement statement = connection.prepareStatement(sql);
```

```
                        statement.setInt(1, crossingId);
                        statement.executeUpdate();
                } catch (SQLException e) {
                        e.printStackTrace();
                        // Handle the exception as needed
                }
        }

        public void removeFromFavorites(int crossingId) {
                try (Connection connection = DatabaseConnection.getConnection()) {
                        String sql = "DELETE FROM favorite_crossing WHERE railway_crossing_id =
?";
                        PreparedStatement statement = connection.prepareStatement(sql);
                        statement.setInt(1, crossingId);
                        statement.executeUpdate();
                } catch (SQLException e) {
                        e.printStackTrace();
                        // Handle the exception as needed
                }
        }

}
```

Updatecrossing

```
package com.simpli;

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;

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

    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        try {
            // Retrieve the crossing ID from the hidden field
            String idParam = request.getParameter("crossingId");

            if (idParam != null && !idParam.isEmpty()) {
                int crossingId = Integer.parseInt(idParam);

                // Retrieve the updated details for the crossing
                String name = request.getParameter("name");
                String address = request.getParameter("address");
                String landmark = request.getParameter("landmark");
                String trainSchedules = request.getParameter("trainSchedules");
                String personInCharge = request.getParameter("personInCharge");
                String status = request.getParameter("status");

                // Create a new RailwayCrossing object with the updated details
                RailwayCrossing updatedCrossing = new RailwayCrossing();
                updatedCrossing.setId(crossingId);
                updatedCrossing.setName(name);
                updatedCrossing.setAddress(address);
                updatedCrossing.setLandmark(landmark);
                updatedCrossing.setTrainSchedule(trainSchedules);
                updatedCrossing.setPersonInCharge(personInCharge);
                updatedCrossing.setStatus(status);

                // Perform the update operation
                RailwayCrossingDAO crossingDAO = new RailwayCrossingDAO();
                crossingDAO.updateCrossing(updatedCrossing);

                // Redirect to the admin homepage after the update
                response.sendRedirect("adminHome.jsp");
            } else {
                // Handle case where idParam is empty or null
                throw new ServletException("Crossing ID is missing.");
            }

        } catch (NumberFormatException e) {
            // Handle case where idParam is not a valid integer
            throw new ServletException("Invalid Crossing ID format.", e);
        } catch (Exception e) {
            // Handle other exceptions
            throw new ServletException("An error occurred during the crossing
update.", e);
        }
    }
}
```