

Views(JSP pages)

index.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Learner's Academy</title>
</head>
<body>
    <h1>Welcome to Leaner's Academy Admin portal</h1>
    <form action="login" method="post">

        <table>
            <tr>
                <td>Username</td>
                <td><input type="text" name="username"
placeholder="Username" required/></td>
            </tr>
            <tr>
                <td>Password</td>
                <td><input type="password" name="password"
placeholder="password" required/></td>
            </tr>
            <tr>
                <td colspan="2"><input type="submit"
value="Login"/></td>
            </tr>
        </table>

    </form>
</body>
</html>
```

loginerror.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null)
    response.sendRedirect("index.jsp");
//System.out.println(session.getAttribute("isValid"));
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Invalid login page</title>
</head>
<body>
    <h1>Invalid login deatils</h1>
    <%
        session.removeAttribute("isValid");
    %>
</body>
</html>
```

```

        %>
        <a href="index.jsp">Go to login</a>
    </body>
</html>

```

addclass.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
    if (session.getAttribute("isValid") == null || !(Boolean)
        session.getAttribute("isValid"))
        response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Add Class</title>
<script>
    //    alert(new Date());
    function validateForm() {
        let cid = document.getElementById("cid").value;
        let cname = document.getElementById("cname").value;
        let isValid = true;

        if (cid.length > 6) {
            alert("Class ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        if (cname.length > 10) {
            alert("Class name length should be less than or equal to
10. Please enter valid name");
            isValid = false;
        }
        return isValid;
    }
</script>

</head>
<body>
    <h1>Enter class details to add</h1>
    <form action="addclass" method="post" onsubmit="return validateForm()">
        <table>
            <tr>
                <td>New Class ID:</td>
                <td><input type="text" name="classid"
                    placeholder="Class ID" id="cid" required
                /></td>
            </tr>
            <tr>
                <td>Subject name:</td>
                <td><input type="text" name="classname"
                    placeholder="Class Name" id="cname" required
                /></td>
            </tr>
            <tr>

```

```

                                <td colspan="2"><input type="submit" value="Add
Class" /></td>
                                </tr>
                                </table>
                                </form>
</body>
</html>

```

addstudent.jsp

```

<%@page import="java.sql.ResultSet"%>
<%@page import="java.util.ArrayList"%>
<%@page import="java.sql.PreparedStatement"%>
<%@page import="com.scode.util.ConnectionUtil"%>
<%@page import="java.sql.Connection"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Add Student</title>
<script>
    //    alert(new Date());
    function validateForm() {
        let stuid = document.getElementById("stuid").value;
        let stuclass = document.getElementById("classid").value;
        //alert(stuclass);
        let isValid = true;

        if (stuid.length > 10) {
            alert("Student ID length should be less than or equal to
10. Please enter valid id");
            isValid = false;
        }
        if(stuclass == "-1"){
            alert("Please select a class");
            isValid = false;
        }
        return isValid;
    }
</script>

</head>
<body>
    <h1>Enter student details to add</h1>
    <form action="addstudent" method="post"
        onsubmit="return validateForm()">
        <table>
            <tr>

```

```

        <td>New Student ID:</td>
        <td><input type="text" name="studentid"
            placeholder="Student ID" id="stuid" required
/></td>
    </tr>
    <tr>
        <td>Student name:</td>
        <td><input type="text" name="studentname"
            placeholder="Student Name" id="stuname"
required /></td>
    </tr>
    <tr>
        <td>Class ID:</td>
        <td><select name="classid" id="classid" required>
            <option value="-1">Select</option>
            <%
ConnectionUtil.getConnection();
con.prepareStatement("select * from classes");
ArrayList<String> classes = new
ResultSet rs = stmt.executeQuery();
while(rs.next()){
            <option value="<%=
rs.getString(1)>"><%= rs.getString(1) %></option>
            <%
            }
            con.close();
            stmt.close();
            rs.close();
            <%
        </select></td>
    </tr>
    <tr>
        <td colspan="2"><input type="submit" value="Add
Student" /></td>
    </tr>
</table>
</form>
</body>
</html>

```

addsubject.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>

```

```

<head>
<meta charset="UTF-8">
<title>Add Subject</title>
<script>
    // alert(new Date());
    function validateForm() {
        let sid = document.getElementById("sid").value;
        let sname = document.getElementById("sname").value;
        let isValid = true;

        if (sid.length > 6) {
            alert("Subject ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        if (sname.length > 25) {
            alert("Subject name length should be less than or equal to
25. Please enter valid name");
            isValid = false;
        }
        return isValid;
    }
</script>

</head>
<body>
    <h1>Enter subject details to add</h1>
    <form action="addsubject" method="post" onsubmit="return
validateForm()">
        <table>
            <tr>
                <td>New Subject ID:</td>
                <td><input type="text" name="subjectid"
placeholder="Subject ID" id="sid" required
/></td>
            </tr>
            <tr>
                <td>Subject name:</td>
                <td><input type="text" name="subjectname"
placeholder="Subject Name" id="sname" required
/></td>
            </tr>
            <tr>
                <td colspan="2"><input type="submit" value="Add
Subject" /></td>
            </tr>
        </table>
    </form>
</body>
</html>

```

addteacher.jsp

```

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

```

```

<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Add Teacher</title>
<script>
    //    alert(new Date());
    function validateForm() {
        let tid = document.getElementById("tid").value;
        let isValid = true;

        if (tid.length > 6) {
            alert("Teacher ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        return isValid;
    }
</script>

</head>
<body>
    <h1>Enter teacher details to add</h1>
    <form action="addteacher" method="post" onsubmit="return
validateForm()">
        <table>
            <tr>
                <td>New Teacher ID:</td>
                <td><input type="text" name="teacherid"
                    placeholder="Teacher ID" id="tid" required
                /></td>
            </tr>
            <tr>
                <td>Teacher name:</td>
                <td><input type="text" name="teachername"
                    placeholder="Teacher Name" id="tname" required
                /></td>
            </tr>
            <tr>
                <td colspan="2"><input type="submit" value="Add
Teacher" /></td>
            </tr>
        </table>
    </form>
</body>
</html>
assignsubject.jsp

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

```

```

if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Assign Subject to Class</title>
<script>
    //    alert(new Date());
    function validateForm() {
        let cid = document.getElementById("cid").value;
        let sid = document.getElementById("sid").value;
        let isValid = true;

        if (cid.length > 6) {
            alert("Class ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        if (sid.length > 6) {
            alert("Subject ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        return isValid;
    }
</script>

</head>
<body>
    <h1>Enter Subject ID and Class ID to assign</h1>
    <form action="assignsubject" method="post"
        onsubmit="return validateForm()">
        <table>
            <tr>
                <td>Class ID:</td>
                <td><input type="text" name="classid"
placeholder="Class ID"
id="cid" required /></td>
            </tr>
            <tr>
                <td>Subject ID:</td>
                <td><input type="text" name="subjectid"
placeholder="Subject ID"
id="sid" required /></td>
            </tr>
            <tr>
                <td colspan="2"><input type="submit" value="Assign
subject" /></td>
            </tr>
        </table>
    </form>
</body>
</html>

```

assignteacher.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
    if (session.getAttribute("isValid") == null || !(Boolean)
        session.getAttribute("isValid"))
        response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Assign Teacher to Class and Subject</title>
<script>
    //    alert(new Date());
    function validateForm() {
        let tid = document.getElementById("tid").value;
        let cid = document.getElementById("cid").value;
        let sid = document.getElementById("sid").value;
        let isValid = true;

        if (tid.length > 6) {
            alert("Teacher ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        if (cid.length > 6) {
            alert("Class ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        if (sid.length > 6) {
            alert("Subject ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        return isValid;
    }
</script>
</head>
<body>
    <h1>Enter Teacher ID and Class ID and Subject ID assign</h1>
    <form action="assignteacher" method="post"
        onsubmit="return validateForm()">
        <table>
            <tr>
                <td>Teacher ID:</td>
                <td><input type="text" name="teacherid"
                    placeholder="Teacher ID" id="tid" required
/></td>
            </tr>
            <tr>
                <td>Class ID:</td>
                <td><input type="text" name="classid"
placeholder="Class ID"

```



```

                                id="cid" required /></td>
                            </tr>
                            <tr>
                                <td>Subject ID:</td>
                                <td><input type="text" name="subjectid"
placeholder="Subject ID"
                                id="sid" required /></td>
                            </tr>
                            <tr>
                                <td colspan="2"><input type="submit" value="Assign
Teacher" /></td>
                            </tr>
                        </table>
                    </form>
</body>
</html>

```

changepassword.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Change password</title>
<script>

    function validate(){
        let password = document.getElementById("password").value;
        let isValid = true;
        if(password.length >10){
            isValid = false;
            alert("Password length should be less than or equeal to
10");
        }
        return isValid;
    }

</script>
</head>
<body>
    <h1>Enter a new password</h1>
    <form action="change" method="post" onsubmit="return validate()">
        <table>
            <tr>
                <td>New Password:</td>
                <td><input type="password" name="password"
placeholder="New password" id="password"
required /></td>
            </tr>
            <tr>

```

```
 <input type="submit" value="Change password" /></td> </tr> </table> </form> </body> </html> | |
```

dashboard.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
//System.out.println(session.getAttribute("isValid"));
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Dashboard</title>
</head>
<body>
    <h1>Welcome to dashboard</h1>
    <table>
        <tr>
            <td><a href="changepassword.jsp">Change password</a></td>
        </tr>
        <tr>
            <td><a href="addsubject.jsp">Add subject</a></td>
        </tr>
        <tr>
            <td><a href="addclass.jsp">Add class</a></td>
        </tr>
        <tr>
            <td><a href="addteacher.jsp">Add teacher</a></td>
        </tr>
        <tr>
            <td><a href="addstudent.jsp">Add student</a></td>
        </tr>
        <tr>
            <td><a href="assignsubject.jsp">Subject assignment</a></td>
        </tr>
        <tr>
            <td><a href="assignteacher.jsp">Teacher assignment</a></td>
        </tr>
        <tr>
            <td><a href="showsubjects">Show subjects</a></td>
        </tr>
        <tr>
            <td><a href="showteachers">Show teachers</a></td>
        </tr>
    </table>

```

```

        <td><a href="showclasses">Show classes</a></td>
    </tr>
    <tr>
        <td><a href="showstudents">Show students</a></td>
    </tr>
    <tr>
        <td><a href="showteacherassignments">Show teacher
            assignments</a></td>
    </tr>
    <tr>
        <td><a href="showsubjectassignments">Show subject
            assignments</a></td>
    </tr>
    <tr>
        <td><a href="showclassinfo.jsp">Show class information
    </a></td>
    </tr>
    <tr>
        <td><a href="logout">Logout</a></td>
    </tr>
</table>
</body>
</html>

```

displayinfo.jsp

```

<%@page import="com.scode.admin.model.Student"%>
<%@page import="com.scode.admin.model.Subject"%>
<%@page import="com.scode.admin.model.Teacher"%>
<%@page import="com.scode.admin.model.Classes"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
    if (session.getAttribute("isValid") == null || !(Boolean)
        session.getAttribute("isValid"))
        response.sendRedirect("index.jsp");
    else if (request.getAttribute("teachers") == null ||
        request.getAttribute("isFound") == null || request.getAttribute("students")
        == null || request.getAttribute("subjects") == null) {
        response.sendRedirect("dashboard.jsp");
    } else {
        boolean isFound = (Boolean) request.getAttribute("isFound");
        String tmessage = (String) request.getAttribute("tmessage");
        String smessage = (String) request.getAttribute("smessage");
        String stumessage = (String) request.getAttribute("stumessage");
    }
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Class details</title>
</head>
<body>
    <%
        if (!isFound) {
    %>
    <h1>Class not found</h1>

```

```

<%
} else {
%>
<h1><%=tmessage%></h1>
<%
ArrayList<Teacher> teachers = (ArrayList<Teacher>)
request.getAttribute("teachers");
if (!teachers.isEmpty()) {
%>
<table>
<tr>
<th>Teacher ID</th>
<th>Teacher Name</th>
</tr>
<%
for (Teacher teacher : teachers) {
%>
<tr>
<td><%=teacher.getId() %></td>
<td><%=teacher.getName() %></td>
</tr>
<%
}
%>
</table>
<%
}
%>
<h1><%=smessage%></h1>
<%
ArrayList<Subject> subjects = (ArrayList<Subject>)
request.getAttribute("subjects");
if (!subjects.isEmpty()) {
%>
<table>
<tr>
<th>Subject ID</th>
<th>Subject Name</th>
</tr>
<%
for (Subject subject : subjects) {
%>
<tr>
<td><%=subject.getId() %></td>
<td><%=subject.getName() %></td>
</tr>
<%
}
%>
</table>
<%
}
%>
<h1><%=stumessage%></h1>
<%
ArrayList<Student> students = (ArrayList<Student>)
request.getAttribute("students");

```

```

        if (!students.isEmpty()) {
            %>
            <table>
                <tr>
                    <th>Student ID</th>
                    <th>Student Name</th>
                </tr>
                <%
                for (Student stu : students) {
                    %>
                    <tr>
                        <td><%=stu.getId() %></td>
                        <td><%=stu.getName() %></td>
                    </tr>
                <%
                }
                %>
            </table>
            <%
            }
            %>
        }
    }
    %>

    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

result.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
String message = (String) request.getAttribute("message");
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (message == null)
    response.sendRedirect("dashboard.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title><%=message%></title>
</head>
<body>

    <h1><%=message%></h1>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

showclasses.jsp

```
<%@page import="com.scode.admin.model.Classes"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (request.getAttribute("classes") == null) {
    response.sendRedirect("dashboard.jsp");
} else {
    String message = (String) request.getAttribute("message");
    ArrayList<Classes> allclasses = (ArrayList<Classes>)
request.getAttribute("classes");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Classes</title>
</head>
<body>
    <h1><%=message%></h1>
    <%
    if (!allclasses.isEmpty()) {
    %>
    <table>
        <tr>
            <th>Class ID</th>
            <th>Class Name</th>
        </tr>
        <%
        for (Classes classes : allclasses) {
        %>
        <tr>
            <td><%=classes.getId()%></td>
            <td><%=classes.getName()%></td>
        </tr>
        <%
        }
        %>
    </table>

    <%
    }
    %>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>
```

showclassinfo.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
    if (session.getAttribute("isValid") == null || !(Boolean)
        session.getAttribute("isValid"))
        response.sendRedirect("index.jsp");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Search class</title>
<script>
    //    alert(new Date());
    function validateForm() {
        let cid = document.getElementById("cid").value;
        let isValid = true;

        if (cid.length > 6) {
            alert("Class ID length should be less than or equal to 6.
Please enter valid id");
            isValid = false;
        }
        return isValid;
    }
</script>

</head>
<body>
    <h1>Enter class id</h1>
    <form action="showclassinfo" method="post" onsubmit="return
validateForm()">
        <table>
            <tr>
                <td>Class ID:</td>
                <td><input type="text" name="classid"
                    placeholder="Class ID" id="cid" required
                /></td>
            </tr>
            <tr>
                <td colspan="2"><input type="submit" value="Search
Class info" /></td>
            </tr>
        </table>
    </form>
</body>
</html>
```

showstudents.jsp

```
<%@page import="com.scode.admin.model.Student"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
```

```

<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (request.getAttribute("students") == null) {
    response.sendRedirect("dashboard.jsp");
} else {
    String message = (String) request.getAttribute("message");
    ArrayList<Student> students = (ArrayList<Student>)
request.getAttribute("students");
    //System.out.println(message);
    //System.out.println(students);
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Students</title>
</head>
<body>
    <h1><%=message%></h1>
    <%
    if (!students.isEmpty()) {
    %>
    <table>
        <tr>
            <th>Student ID</th>
            <th>Student Name</th>
        </tr>
        <%
        for (Student student : students) {
        %>
        <tr>
            <td><%=student.getId()%></td>
            <td><%=student.getName()%></td>
        </tr>
        <%
        }
        %>
    </table>

    <%
    }
    %>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

showsubjectassign.jsp

```

<%@page import="com.scode.admin.model.SubjectAssignment"%>

<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%

```



```

if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (request.getAttribute("sas") == null) {
    response.sendRedirect("dashboard.jsp");
} else {
    String message = (String) request.getAttribute("message");
    ArrayList<SubjectAssignment> sas = (ArrayList<SubjectAssignment>)
request.getAttribute("sas");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Class Subject assignments</title>
</head>
<body>
    <h1><%=message%></h1>
    <%
    if (!sas.isEmpty()) {
    %>
    <table>
        <tr>
            <th>Subject ID</th>
            <th>Class ID</th>
        </tr>
        <%
        for (SubjectAssignment sa : sas) {
        %>
        <tr>
            <td><%=sa.getSid()%></td>
            <td><%=sa.getCid()%></td>
        </tr>
        <%
        }
        %>
    </table>
    %>
    }
    %>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

showsubjects.jsp

```

<%@page import="com.scode.admin.model.Subject"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (request.getAttribute("subjects") == null) {
    response.sendRedirect("dashboard.jsp");
} else {

```

```

        String message = (String) request.getAttribute("message");
        ArrayList<Subject> subjects = (ArrayList<Subject>)
request.getAttribute("subjects");
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Subjects</title>
</head>
<body>
    <h1><%=message%></h1>
    <%
    if (!subjects.isEmpty()) {
    %>
    <table>
        <tr>
            <th>Subject ID</th>
            <th>Subject Name</th>
        </tr>
        <%
        for (Subject subject : subjects) {
        %>
        <tr>
            <td><%=subject.getId()%></td>
            <td><%=subject.getName()%></td>
        </tr>
        <%
        }
        %>
    </table>

    %>
    }
    }
    %>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

showteachersassign.jsp

```

<%@page import="com.scode.admin.model.TeacherAssignment"%>

<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (request.getAttribute("tas") == null) {
    response.sendRedirect("dashboard.jsp");
} else {
    String message = (String) request.getAttribute("message");
    ArrayList<TeacherAssignment> ta = (ArrayList<TeacherAssignment>)
request.getAttribute("tas");
%>

```

```

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Teacher Class Subject assignments</title>
</head>
<body>
    <h1><%=message%></h1>
    <%
    if (!ta.isEmpty()) {
    %>
    <table>
        <tr>
            <th>Teacher ID</th>
            <th>Subject ID</th>
            <th>Class ID</th>
        </tr>
        <%
        for (TeacherAssignment t : ta) {
        %>
        <tr>
            <td><%=t.getTid()%></td>
            <td><%=t.getSid()%></td>
            <td><%=t.getCid()%></td>
        </tr>
        <%
        }
        %>
    </table>
    %>
    }
    }
    %>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

showteachers.jsp

```

<%@page import="com.scode.admin.model.Teacher"%>
<%@page import="java.util.ArrayList"%>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%
if (session.getAttribute("isValid") == null || !(Boolean)
session.getAttribute("isValid"))
    response.sendRedirect("index.jsp");
else if (request.getAttribute("teachers") == null) {
    response.sendRedirect("dashboard.jsp");
} else {
    String message = (String) request.getAttribute("message");
    ArrayList<Teacher> teachers = (ArrayList<Teacher>)
request.getAttribute("teachers");
    %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">

```

```

<title>Teachers</title>
</head>
<body>
    <h1><%=message%></h1>
    <%
    if (!teachers.isEmpty()) {
    %>
    <table>
        <tr>
            <th>Teacher ID</th>
            <th>Teacher Name</th>
        </tr>
        <%
        for (Teacher teacher : teachers) {
        %>
        <tr>
            <td><%=teacher.getId() %></td>
            <td><%=teacher.getName() %></td>
        </tr>
        <%
        }
        %>
    </table>

    <%
    }
    %>
    <a href="dashboard.jsp">Go to dashboard</a>
</body>
</html>

```

ConnectionUtil.java

```
package com.scode.util;
```

```
import java.sql.*;
```

```
import javax.naming.InitialContext;
```

```
import javax.naming.NamingException;
```

```
import javax.sql.DataSource;
```

```

public class ConnectionUtil {

    public static Connection getConnection() {

        Connection connection = null;

        try {

```

```

        InitialContext context = new InitialContext();

        DataSource dataSource = (DataSource) context.lookup("java:comp/env/myds");


        connection = dataSource.getConnection();
//        System.out.println(connection);
    } catch (NamingException e) {
        e.printStackTrace();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    }
    return connection;
}
}

```

Models

Admin.java

```

package com.scode.admin.model;


import java.sql.*;

import com.scode.util.ConnectionUtil;


public class Admin {

    private String username;
    private String password;


    private Connection con;
    private PreparedStatement stmt,stmt1;

```

```

public Admin() {
    try {
        con = ConnectionUtil.getConnection();
        stmt = con.prepareStatement("select * from admin where username = ?
and password = ?");
        stmt1 = con.prepareStatement("update admin set password = ?");
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

public void setUsername(String username) {
    this.username = username;
}

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

public boolean validate() {
    boolean result = false;
    try {
        stmt.setString(1, username);
        stmt.setString(2, password);
        ResultSet rs = stmt.executeQuery();
        result = rs.next();
    }
}

```

```
//          System.out.println(result);
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return result;
}
```

```
public int updatePassword(String password) {
    int result = 0;
    try {
        stmt1.setString(1, password);
        result = stmt1.executeUpdate();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return result;
}
```

```
public void destroy() {
    try {
        con.close();
        stmt.close();
        stmt1.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
```

```
    }  
}
```

Classes.java

```
package com.scode.admin.model;
```

```
import java.sql.Connection;
```

```
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.util.ArrayList;
```

```
import com.scode.util.ConnectionUtil;
```

```
public class Classes {
```

```
    private String id;
```

```
    private String name;
```

```
    private Connection con;
```

```
    private PreparedStatement stmt, stmt1, stmt2, stmt3;
```

```
    public Classes() {
```

```
        try {
```

```
            con = ConnectionUtil.getConnection();
```

```
            stmt = con.prepareStatement("select * from classes where id = ?");
```

```
            stmt1 = con.prepareStatement("select * from classes where name = ?");
```

```
            stmt2 = con.prepareStatement("insert into classes values(?,?)");
```

```
            stmt3 = con.prepareStatement("select * from classes");
```



```
        } catch (SQLException e) {
            e.printStackTrace();
        }

    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

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

    @Override
    public String toString() {
        return "Class [id=" + id + ", name=" + name + "]\n";
    }
}
```

```

public int addClass() {
    int result = 0;
    try {
        stmt.setString(1, id);
        ResultSet rs = stmt.executeQuery();
        if (rs.next())
            return -1;

        stmt1.setString(1, name);
        rs = stmt1.executeQuery();
        if (rs.next())
            return -2;

        stmt2.setString(1, id);
        stmt2.setString(2, name);
        result = stmt2.executeUpdate();
//        System.out.println(result);
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return result;
}

```

```

public void destroy() {
    try {
        con.close();
        stmt.close();
        stmt1.close();
    }
}

```

```

        stmt2.close();
        stmt3.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

public ArrayList<Classes> getClasses() {
    ArrayList<Classes> allclasses = new ArrayList<Classes>();
    try {
        ResultSet rs = stmt3.executeQuery();
        while (rs.next()) {
            Classes classes = new Classes();
            classes.setId(rs.getString(1));
            classes.setName(rs.getString(2));
            allclasses.add(classes);
            classes.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return allclasses;
}

```

```

// public ArrayList<Subject> getSubjects(String id) {

```

```
//
//    }
//
//    public ArrayList<Student> getStudents(String id) {
//
//    }
```

```
    public int findClass(String id) {
        int result = 0;
        try {
            stmt.setString(1, id);
            ResultSet rs = stmt.executeQuery();
            if (!rs.next())
                return -1;
        } catch (SQLException e) {
            e.printStackTrace();
        }
        return result;
    }
}
```

Student.java

```
package com.scode.admin.model;

import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
```

```
import java.util.ArrayList;
```

```
import com.scode.util.ConnectionUtil;
```

```
public class Student {
```

```
    private String id;
```

```
    private String name;
```

```
    private String classid;
```

```
    private Connection con;
```

```
    private PreparedStatement stmt, stmt1, stmt2,stmt3;
```

```
    public Student() {
```

```
        try {
```

```
            con = ConnectionUtil.getConnection();
```

```
            stmt = con.prepareStatement("select * from student where id = ?");
```

```
            stmt1 = con.prepareStatement("insert into student values(?,?,?)");
```

```
            stmt2 = con.prepareStatement("select * from student");
```

```
            stmt3 = con.prepareStatement("select * from student where class_id =  
?");
```

```
        } catch (SQLException e) {
```

```
            e.printStackTrace();
```

```
        }
```

```
    }
```

```
    public String getId() {
```

```
        return id;
    }
```

```
public void setId(String id) {
    this.id = id;
}
```

```
public String getName() {
    return name;
}
```

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

```
public String getClassid() {
    return classid;
}
```

```
public void setClassid(String classid) {
    this.classid = classid;
}
```

@Override

```
public String toString() {
    return "Student [id=" + id + ", name=" + name + ", classid=" + classid + "];"
}
```

```

public int addStudent() {
    int result = 0;
    try {
        stmt.setString(1, id);
        ResultSet rs = stmt.executeQuery();
        if (rs.next())
            return -1;

        stmt1.setString(1, id);
        stmt1.setString(2, name);
        stmt1.setString(3, classid);
        result = stmt1.executeUpdate();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return result;
}

```

```

public void destroy() {
    try {
        con.close();
        stmt.close();
        stmt1.close();
        stmt2.close();
        stmt3.close();
    } catch (SQLException e) {

```

```

        e.printStackTrace();
    }
}

public ArrayList<Student> getStudents() {
    ArrayList<Student> students = new ArrayList<Student>();
    try {
        ResultSet rs = stmt2.executeQuery();
        while (rs.next()) {
            Student student = new Student();
            student.setId(rs.getString(1));
            student.setName(rs.getString(2));
            student.setClassid(rs.getString(3));
            students.add(student);
            student.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return students;
}

```

```

public ArrayList<Student> getStudents(String Id) {
    ArrayList<Student> students = new ArrayList<Student>();
    try {
        stmt3.setString(1, Id);
        ResultSet rs = stmt3.executeQuery();
    }
}

```



```

        while (rs.next()) {
            Student student = new Student();
            student.setId(rs.getString(1));
            student.setName(rs.getString(2));
            students.add(student);
            student.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return students;
}
}

```

Subject.java

```

package com.scode.admin.model;

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

import com.scode.util.ConnectionUtil;

public class Subject {
    private String id;
    private String name;

```

```

private Connection con;

private PreparedStatement stmt, stmt1, stmt2, stmt3,stmt4;

public Subject() {
    try {
        con = ConnectionUtil.getConnection();
        stmt = con.prepareStatement("select * from subjects where id = ?");
        stmt1 = con.prepareStatement("select * from subjects where name = ?");
        stmt2 = con.prepareStatement("insert into subjects values(?,?)");
        stmt3 = con.prepareStatement("select * from subjects");
        stmt4 = con.prepareStatement(
            "select * from subjects where id in (select subject_id from
classsubjects where class_id = ?)");
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

public String getId() {
    return id;
}

public void setId(String id) {
    this.id = id;
}

```

```
public String getName() {  
    return name;  
}
```

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

```
@Override  
public String toString() {  
    return "Subject [id=" + id + ", name=" + name + "];"  
}
```

```
public int addSubject() {  
    int result = 0;  
    try {  
        stmt.setString(1, id);  
        ResultSet rs = stmt.executeQuery();  
        if (rs.next())  
            return -1;  
        stmt1.setString(1, name);  
        rs = stmt1.executeQuery();  
        if (rs.next())  
            return -2;  
  
        stmt2.setString(1, id);
```

```
        stmt2.setString(2, name);  
        result = stmt2.executeUpdate();  
    } catch (SQLException e) {  
        e.printStackTrace();  
    }  
    return result;  
}
```

```
public void destroy() {  
    try {  
        con.close();  
        stmt.close();  
        stmt1.close();  
        stmt2.close();  
        stmt3.close();  
        stmt4.close();  
    } catch (SQLException e) {  
        e.printStackTrace();  
    }  
}
```

```
public ArrayList<Subject> getSubjects() {  
    ArrayList<Subject> subjects = new ArrayList<Subject>();  
    try {  
        ResultSet rs = stmt3.executeQuery();  
        while (rs.next()) {  
            Subject subject = new Subject();
```

```

        subject.setId(rs.getString(1));
        subject.setName(rs.getString(2));
        subjects.add(subject);
        subject.destroy();
    }
} catch (SQLException e) {
    e.printStackTrace();
}
return subjects;
}

public ArrayList<Subject> getSubjects(String id) {
    ArrayList<Subject> subjects = new ArrayList<Subject>();
    try {
        stmt4.setString(1, id);
        ResultSet rs = stmt4.executeQuery();
        while (rs.next()) {
            Subject subject = new Subject();
            subject.setId(rs.getString(1));
            subject.setName(rs.getString(2));
            subjects.add(subject);
            subject.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return subjects;
}

```

```
    }  
}
```

SubjectAssignment.java

```
package com.scode.admin.model;
```

```
import java.sql.Connection;
```

```
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.util.ArrayList;
```

```
import java.util.Random;
```

```
import com.scode.util.ConnectionUtil;
```

```
public class SubjectAssignment {
```

```
    private String sid;
```

```
    private String cid;
```

```
    private Connection con;
```

```
    private PreparedStatement stmt, stmt1, stmt2, stmt3, stmt4;
```

```
    public SubjectAssignment() {
```

```
        try {
```

```
            con = ConnectionUtil.getConnection();
```

```
            stmt = con.prepareStatement("select * from subjects where id = ?");
```

```
            stmt1 = con.prepareStatement("select * from classes where id = ?");
```

```

        stmt2 = con.prepareStatement("select * from classsubjects where
subject_id = ?");

        stmt3 = con.prepareStatement("insert into classsubjects values (?, ?, ?)");

        stmt4 = con.prepareStatement("select * from classsubjects");
//        stmt3 = con.prepareStatement("select * from subjects");

    } catch (SQLException e) {

        e.printStackTrace();

    }

}

public String getSid() {

    return sid;

}

public void setSid(String sid) {

    this.sid = sid;

}

public String getCid() {

    return cid;

}

public void setCid(String cid) {

    this.cid = cid;

}

```

```

@Override
public String toString() {
    return "SubjectAssignment [Subject ID=" + sid + ", is assigned to Class ID=" + cid +
    "];
}

```

```

public int assignSubject() {
    int result = 0;
    try {
        stmt.setString(1, sid);
        ResultSet rs = stmt.executeQuery();
        if (!rs.next())
            return -1;
        stmt1.setString(1, cid);
        rs = stmt1.executeQuery();
        if (!rs.next())
            return -2;
        stmt2.setString(1, sid);
        rs = stmt2.executeQuery();
        if (rs.next())
            return -3;
        Random random = new Random();
        String characters =
        "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";
        int length = 6;
        StringBuilder randomText = new StringBuilder();
        for (int i = 0; i < length; i++) {

```



```

        int randomIndex = random.nextInt(characters.length());
        randomText.append(characters.charAt(randomIndex));
    }

    stmt3.setString(1, randomText.toString());
    stmt3.setString(2, cid);
    stmt3.setString(3, sid);
    result = stmt3.executeUpdate();
} catch (SQLException e) {
    e.printStackTrace();
}
return result;
}

```

```

public void destroy() {
    try {
        con.close();
        stmt.close();
        stmt1.close();
        stmt2.close();
        stmt3.close();
        stmt4.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```

```

public ArrayList<SubjectAssignment> getAssignments() {
    ArrayList<SubjectAssignment> sas = new ArrayList<SubjectAssignment>();
    try {
        ResultSet rs = stmt4.executeQuery();
        while (rs.next()) {
            SubjectAssignment sa = new SubjectAssignment();
            sa.setCid(rs.getString(2));
            sa.setSid(rs.getString(3));
            sas.add(sa);
            sa.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return sas;
}
}

```

Teacher.java

```

package com.scode.admin.model;

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

import com.scode.util.ConnectionUtil;

public class Teacher {
    private String id;
    private String name;

    private Connection con;
    private PreparedStatement stmt, stmt1, stmt2, stmt3;

    public Teacher() {
        try {

```

```

        con = ConnectionUtil.getConnection();
        stmt = con.prepareStatement("select * from teachers where
id = ?");
        stmt1 = con.prepareStatement("insert into teachers
values(?,?)");
        stmt2 = con.prepareStatement("select * from teachers");
        stmt3 = con.prepareStatement(
            "select * from teachers where id in (select
teacher_id from teacherassignment inner JOIN classsubjects on
teacherassignment.classsubject_id = classsubjects.id where
classsubjects.class_id = ?)");
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

public String getId() {
    return id;
}

public void setId(String id) {
    this.id = id;
}

public String getName() {
    return name;
}

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

@Override
public String toString() {
    return "Teacher [id=" + id + ", name=" + name + "]";
}

public int addTeacher() {
    int result = 0;
    try {
        stmt.setString(1, id);
        ResultSet rs = stmt.executeQuery();
        if (rs.next())
            return -1;

        stmt1.setString(1, id);
        stmt1.setString(2, name);
        result = stmt1.executeUpdate();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return result;
}

public void destroy() {
    try {

```

```

        con.close();
        stmt.close();
        stmt1.close();
        stmt2.close();
        stmt3.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

public ArrayList<Teacher> getTeachers() {
    ArrayList<Teacher> teachers = new ArrayList<Teacher>();
    try {
        ResultSet rs = stmt2.executeQuery();
        while (rs.next()) {
            Teacher teacher = new Teacher();
            teacher.setId(rs.getString(1));
            teacher.setName(rs.getString(2));
            teachers.add(teacher);
            teacher.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return teachers;
}

public ArrayList<Teacher> getTeachers(String id) {
    ArrayList<Teacher> teachers = new ArrayList<Teacher>();
    try {
        stmt3.setString(1, id);
        ResultSet rs = stmt3.executeQuery();
        while(rs.next()) {
            Teacher teacher = new Teacher();
            teacher.setId(rs.getString(1));
            teacher.setName(rs.getString(2));
            teachers.add(teacher);
            teacher.destroy();
        }
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return teachers;
}
}

```

TeacherAssignment.java

```
package com.scode.admin.model;
```

```
import java.sql.Connection;
```

```
import java.sql.PreparedStatement;
```

```
import java.sql.ResultSet;
```

```
import java.sql.SQLException;
```

```
import java.util.ArrayList;
```

```
import java.util.Random;
```

```
import com.scode.util.ConnectionUtil;
```

```
public class TeacherAssignment {
```

```
    private String tid;
```

```
    private String sid;
```

```
    private String cid;
```

```
    private Connection con;
```

```
    private PreparedStatement stmt, stmt1, stmt2, stmt3, stmt4, stmt5, stmt6;
```

```
    public TeacherAssignment() {
```

```
        try {
```

```
            con = ConnectionUtil.getConnection();
```

```
            stmt = con.prepareStatement("select * from subjects where id = ?");
```

```
            stmt1 = con.prepareStatement("select * from classes where id = ?");
```

```
            stmt2 = con.prepareStatement("select * from teachers where id = ?");
```

```
            stmt3 = con.prepareStatement("select * from classsubjects where  
class_id = ? and subject_id=?");
```

```
            stmt4 = con.prepareStatement("select * from teacherassignment where  
classsubject_id = ?");
```

```
            stmt5 = con.prepareStatement("insert into teacherassignment values  
(?,?,?)");
```

```
            stmt6 = con.prepareStatement(
```

```
        "select teacher_id,class_id,subject_id from classsubjects  
inner join teacherassignment on classsubjects.id = teacherassignment.classsubject_id");
```

```
    } catch (SQLException e) {  
        e.printStackTrace();  
    }
```

```
}
```

```
public String getTid() {  
    return tid;  
}
```

```
public void setTid(String tid) {  
    this.tid = tid;  
}
```

```
public String getSid() {  
    return sid;  
}
```

```
public void setSid(String sid) {  
    this.sid = sid;  
}
```

```
public String getCid() {  
    return cid;  
}
```

```
}
```

```
public void setCid(String cid) {
```

```
    this.cid = cid;
```

```
}
```

```
@Override
```

```
public String toString() {
```

```
    return "TeacherAssignment [Teacher " + tid + ", is assigned to subject = " + sid + ",  
for calss =" + cid + "];"
```

```
}
```

```
public int assignSubject() {
```

```
    int result = 0;
```

```
    String id = null;
```

```
    try {
```

```
        stmt.setString(1, sid);
```

```
        ResultSet rs = stmt.executeQuery();
```

```
        if (!rs.next())
```

```
            return -1;
```

```
        stmt1.setString(1, cid);
```

```
        rs = stmt1.executeQuery();
```

```
        if (!rs.next())
```

```
            return -2;
```

```
        stmt2.setString(1, tid);
```

```
        rs = stmt2.executeQuery();
```

```
        if (!rs.next())
```

```
        return -3;

stmt3.setString(1, cid);
stmt3.setString(2, sid);
ResultSet rs1 = stmt3.executeQuery();
if (!rs1.next())
    return -4;
if (rs1 != null)
    id = rs1.getString(1);
```

```
stmt4.setString(1, id);
rs = stmt4.executeQuery();
if (rs.next())
    return -5;
```

```
Random random = new Random();

String characters =
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";

int length = 6;

StringBuilder randomText = new StringBuilder();

for (int i = 0; i < length; i++) {
    int randomIndex = random.nextInt(characters.length());
    randomText.append(characters.charAt(randomIndex));
}
```

```
stmt5.setString(1, randomText.toString());
stmt5.setString(2, tid);
stmt5.setString(3, id);
```



```
        result = stmt5.executeUpdate();
    } catch (SQLException e) {
        e.printStackTrace();
    }
    return result;
}
```

```
public void destroy() {
    try {
        con.close();
        stmt.close();
        stmt1.close();
        stmt2.close();
        stmt3.close();
        stmt4.close();
        stmt5.close();
        stmt6.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}
```

```
public ArrayList<TeacherAssignment> getAssignments() {
    ArrayList<TeacherAssignment> tas = new ArrayList<TeacherAssignment>();
    try {
        ResultSet rs = stmt6.executeQuery();
        while (rs.next()) {
```

```

        TeacherAssignment ta = new TeacherAssignment();
        ta.setTid(rs.getString(1));
        ta.setCid(rs.getString(2));
        ta.setSid(rs.getString(3));
        tas.add(ta);
        ta.destroy();
    }
} catch (SQLException e) {
    e.printStackTrace();
}
return tas;
}
}

```

Controllers(Sevlets)

AddClassController.java

```

package com.scode.admin.controllers;

import java.io.IOException;

import com.scode.admin.model.Classes;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

```

```
import jakarta.servlet.http.HttpSession;
```

```
/**
```

```
 * Servlet implementation class AddFlightController
```

```
 */
```

```
@WebServlet("/addclass")
```

```
public class AddClassController extends HttpServlet {
```

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

```
    /**
```

```
     * @see HttpServlet#HttpServlet()
```

```
     */
```

```
    public AddClassController() {
```

```
        super();
```

```
        // TODO Auto-generated constructor stub
```

```
    }
```

```
    /**
```

```
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
```

```
     * response)
```

```
     */
```

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

```
        throws ServletException, IOException {
```

```
        doPost(request, response);
```

```
    }
```

```
    /**
```

```

* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
*     response)
*/
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    HttpSession session = request.getSession();
    if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {
        RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
        rd.forward(request, response);
    } else if (request.getParameter("classid") == null ||
request.getParameter("classname") == null) {
        RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
        rd.forward(request, response);
    } else {
        String id = request.getParameter("classid");
        String name = request.getParameter("classname");
//        System.out.println(id);
        Classes classes = new Classes();
        classes.setId(id);
        classes.setName(name);

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

        if (id.length() > 6) {
            request.setAttribute("message",
                                "Class ID length is greter than 6. Please enter a
value less than or equal to 6");

```

```

    }
    if (name.length() > 10) {
        request.setAttribute("message",
            "Class name length is greter than 10. Please enter a
value less than or equal to 10");
    }
    int result = classes.addClass();
    if (result == -1) {
        request.setAttribute("message", "Class ID " + id
            + " already exists in the database. Please enter a
new value");
    }
    if (result == -2) {
        request.setAttribute("message", "Class name " + name
            + " already exists in the database. Please enter a
new value");
    }
    if (result > 0) {
        request.setAttribute("message", "Class " + classes.toString() + "
created successfully");
    }
    classes.destroy();
    rd.forward(request, response);
//      System.out.println(request.getParameter("date"));
//      System.out.println(flight.toString());
    }
}

```

```
}
```

AddStudentController.java

```
package com.scode.admin.controllers;
```

```
import java.io.IOException;
```

```
import com.scode.admin.model.Student;
```

```
import jakarta.servlet.RequestDispatcher;
```

```
import jakarta.servlet.ServletException;
```

```
import jakarta.servlet.annotation.WebServlet;
```

```
import jakarta.servlet.http.HttpServlet;
```

```
import jakarta.servlet.http.HttpServletRequest;
```

```
import jakarta.servlet.http.HttpServletResponse;
```

```
import jakarta.servlet.http.HttpSession;
```

```
/**
```

```
 * Servlet implementation class AddFlightController
```

```
 */
```

```
@WebServlet("/addstudent")
```

```
public class AddStudentController extends HttpServlet {
```

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

```
    /**
```

```
     * @see HttpServlet#HttpServlet()
```

```
     */
```

```

public AddStudentController() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
 * response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    doPost(request, response);
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
 * response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    HttpSession session = request.getSession();
    if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {
        RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
        rd.forward(request, response);
    } else if (request.getParameter("studentid") == null ||
request.getParameter("studentname") == null || request.getParameter("classid") == null) {
        RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");

```

```

        rd.forward(request, response);
    } else {
        String id = request.getParameter("studentid");
        String name = request.getParameter("studentname");
        String classid = request.getParameter("classid");

        Student student = new Student();
        student.setId(id);
        student.setName(name);
        student.setClassid(classid);

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

        if (id.length() > 10) {
            request.setAttribute("message",
                                "Student ID length is greter than 6. Please enter a
value less than or equal to 6");
        }
        int result = student.addStudent();
        if (result == -1) {
            request.setAttribute("message", "Student ID " + id
                                + " already exists in the database. Please enter a
new value");
        }
        if (result > 0) {
            request.setAttribute("message", "Student " + student.toString() + "
created successfully");

```



```

        }
        student.destroy();
        rd.forward(request, response);
//        System.out.println(request.getParameter("date"));
//        System.out.println(flight.toString());
    }
}

```

```

}

```

AddSubjectController.java

```

package com.scode.admin.controllers;

import java.io.IOException;

import com.scode.admin.model.Subject;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class AddFlightController
 */

```

```

@WebServlet("/addsubject")

public class AddSubjectController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AddSubjectController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
     * response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        doPost(request, response);
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     * response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

```

```

HttpSession session = request.getSession();
if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {

    RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
    rd.forward(request, response);

} else if (request.getParameter("subjectid") == null ||
request.getParameter("subjectname") == null) {

    RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
    rd.forward(request, response);

} else {

    String id = request.getParameter("subjectid");
    String name = request.getParameter("subjectname");

    Subject subject = new Subject();
    subject.setId(id);
    subject.setName(name);

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

    if (id.length() > 6) {
        request.setAttribute("message",
                                "Subject ID length is greter than 6. Please enter a
value less than or equal to 6");
    }

    if (name.length() > 25) {
        request.setAttribute("message",
                                "Subject ID length is greter than 25. Please enter a
value less than or equal to 25");
    }
}

```

```

    }
    int result = subject.addSubject();
    if (result == -1) {
        request.setAttribute("message", "Subject ID " + id
                                + " already exists in the database. Please enter a
new value");
    }
    if (result == -2) {
        request.setAttribute("message", "Subject name " + name
                                + " already exists in the database. Please enter a
new value");
    }
    if (result > 0) {
        request.setAttribute("message", "Subject " + subject.toString() + "
created successfully");
    }
    subject.destroy();
    rd.forward(request, response);
//      System.out.println(request.getParameter("date"));
//      System.out.println(flight.toString());
    }
}

```

AddTeacherController.java

```

package com.scode.admin.controllers;

```

```
import java.io.IOException;

import com.scode.admin.model.Classes;
import com.scode.admin.model.Teacher;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class AddFlightController
 */
@WebServlet("/addteacher")
public class AddTeacherController extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AddTeacherController() {
        super();
        // TODO Auto-generated constructor stub
    }
}
```

```

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
 *     response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    doPost(request, response);
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
 *     response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    HttpSession session = request.getSession();
    if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {
        RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
        rd.forward(request, response);
    } else if (request.getParameter("teacherid") == null ||
request.getParameter("teachername") == null) {
        RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
        rd.forward(request, response);
    } else {
        String id = request.getParameter("teacherid");
        String name = request.getParameter("teachername");

```

```

//          System.out.println(id);

Teacher teacher = new Teacher();
teacher.setId(id);
teacher.setName(name);

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

if (id.length() > 6) {
    request.setAttribute("message",
        "Teacher ID length is greter than 6. Please enter a
value less than or equal to 6");
}
int result = teacher.addTeacher();
if (result == -1) {
    request.setAttribute("message", "Teacher ID " + id
        + " already exists in the database. Please enter a
new value");
}
if (result > 0) {
    request.setAttribute("message", "Teacher " + teacher.toString() + "
created successfully");
}
teacher.destroy();
rd.forward(request, response);
//          System.out.println(request.getParameter("date"));
//          System.out.println(flight.toString());
}

```

```
}
```

```
}
```

AssignSubjectController.java

```
package com.scode.admin.controllers;
```

```
import java.io.IOException;
```

```
import com.scode.admin.model.Student;
```

```
import com.scode.admin.model.Subject;
```

```
import com.scode.admin.model.SubjectAssignment;
```

```
import jakarta.servlet.RequestDispatcher;
```

```
import jakarta.servlet.ServletException;
```

```
import jakarta.servlet.annotation.WebServlet;
```

```
import jakarta.servlet.http.HttpServlet;
```

```
import jakarta.servlet.http.HttpServletRequest;
```

```
import jakarta.servlet.http.HttpServletResponse;
```

```
import jakarta.servlet.http.HttpSession;
```

```
/**
```

```
 * Servlet implementation class AddFlightController
```

```
 */
```

```
@WebServlet("/assignsubject")
```

```
public class AssignSubjectController extends HttpServlet {
```

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



```

/**
 * @see HttpServlet#HttpServlet()
 */
public AssignSubjectController() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
 *     response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    doPost(request, response);
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
 *     response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    HttpSession session = request.getSession();
    if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {
        RequestDispatcher rd = request.getRequestDispatcher("index.jsp");

```

```

        rd.forward(request, response);

    } else if (request.getParameter("classid") == null ||
request.getParameter("subjectid") == null) {
//        System.out.println("hello");

        RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
        rd.forward(request, response);
    } else {
        String sid = request.getParameter("subjectid");
        String cid = request.getParameter("classid");

        SubjectAssignment sa = new SubjectAssignment();
        sa.setCid(cid);
        sa.setSid(sid);

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

        if (cid.length() > 6) {
            request.setAttribute("message",
                                "Class ID length is greter than 6. Please enter a
value less than or equal to 6");
        }
        if (sid.length() > 6) {
            request.setAttribute("message",
                                "Subject ID length is greter than 6. Please enter a
value less than or equal to 6");
        }
        int result = sa.assignSubject();
        if (result == -1) {

```

```

        request.setAttribute("message", "Subject ID " + sid
                                + " does not exists in the database. Please enter a
valid value");
    }
    if (result == -2) {
        request.setAttribute("message", "Class ID " + cid
                                + " does not exists in the database. Please enter a
valid value");
    }
    if (result == -3) {
        request.setAttribute("message", "Subject ID " + sid
                                + " is already assigned to different class. Please
enter a valid value");
    }
    if (result > 0) {
        request.setAttribute("message", "Assignment " + sa.toString() + "
created successfully");

    }
    sa.destroy();
    rd.forward(request, response);
//        System.out.println(request.getParameter("date"));
//        System.out.println(flight.toString());
    }
}
}

```

AssignTeacherController.java

```
package com.scode.admin.controllers;

import java.io.IOException;

import com.scode.admin.model.Student;
import com.scode.admin.model.TeacherAssignment;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class AddFlightController
 */
@WebServlet("/assignteacher")
public class AssignTeacherController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AssignTeacherController() {
        super();
    }
}
```

```

        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        doPost(request, response);
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();
        if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {
            RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
            rd.forward(request, response);
        } else if (request.getParameter("teacherid") == null ||
request.getParameter("subjectid") == null || request.getParameter("classid") == null) {
            RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
            rd.forward(request, response);
        } else {

```

```
String tid = request.getParameter("teacherid");
String sid = request.getParameter("subjectid");
String cid = request.getParameter("classid");

TeacherAssignment ta = new TeacherAssignment();
ta.setCid(cid);
ta.setSid(sid);
ta.setTid(tid);

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

if (tid.length() > 6) {
    request.setAttribute("message",
        "Teacher ID length is greter than 6. Please enter a
value less than or equal to 6");
}
if (sid.length() > 6) {
    request.setAttribute("message",
        "Subject ID length is greter than 6. Please enter a
value less than or equal to 6");
}
if (cid.length() > 6) {
    request.setAttribute("message",
        "Class ID length is greter than 6. Please enter a
value less than or equal to 6");
}

int result = ta.assignSubject();
if (result == -1) {
```

```

        request.setAttribute("message", "Subject ID " + sid
                                + " does not exists in the database. Please enter a
new value");
    }
    if (result == -2) {
        request.setAttribute("message", "Class ID " + sid
                                + " does not exists in the database. Please enter a
new value");
    }

    if (result == -3) {
        request.setAttribute("message", "Teacher ID " + sid
                                + " does not exists in the database. Please enter a
new value");
    }

    if (result == -4) {
        request.setAttribute("message", "Subject ID " + sid
                                + " is not assigned to Class ID "+cid);
    }

    if (result == -5) {
        request.setAttribute("message", "Subject ID " + sid
                                + " is for Class ID "+cid+" is already assigned to a
teacher");
    }

    if (result > 0) {
        request.setAttribute("message", "Assignmet " + ta.toString() + "
created successfully");
    }

```

```

        ta.destroy();

        rd.forward(request, response);

//        System.out.println(request.getParameter("date"));
//        System.out.println(flight.toString());
    }

}

}

```

ChangePasswordController.java

```

package com.scode.admin.controllers;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

import java.io.IOException;

import com.scode.admin.model.Admin;

/**
 * Servlet implementation class ChangePasswordController
 */
@WebServlet("/change")

```



```

public class ChangePasswordController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ChangePasswordController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        doPost(request, response);
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
     *      response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();

```

```

        if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {

            RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
            rd.forward(request, response);
        } else if (request.getParameter("password") == null) {
            RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
            rd.forward(request, response);
        } else {
            String password = request.getParameter("password");
            Admin admin = new Admin();
            int result = admin.updatePassword(password);
            RequestDispatcher rd = request.getRequestDispatcher("result.jsp");
//            System.out.println(result);
            if (result > 0) {
                request.setAttribute("message", "Password updated succesfully");
            } else {
                request.setAttribute("message", "Password not updated. Please
try again later.");
            }
            admin.destroy();
//            System.out.println(request.getAttribute("message"));
            rd.forward(request, response);
        }
    }
}

```

LoginController.java

```
package com.scode.admin.controllers;
```

```
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
```

```
import java.io.IOException;
```

```
import com.scode.admin.model.Admin;
```

```
/**
 * Servlet implementation class LoginController
 */
@WebServlet("/login")
public class LoginController extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public LoginController() {
        super();
        // TODO Auto-generated constructor stub
    }
}
```

```

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
 *     response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    doPost(request, response);
}

```

```

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
 *     response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    HttpSession session = request.getSession();

    String username = request.getParameter("username");
    String password = request.getParameter("password");
    RequestDispatcher rd = null;
    if (username == null || password == null) {
        rd = request.getRequestDispatcher("index.jsp");
        rd.forward(request, response);
    } else {

        Admin admin = new Admin();

```

```

        admin.setPassword(password);
        admin.setUsername(username);
        boolean isValid = admin.validate();
        if (isValid) {
            rd = request.getRequestDispatcher("dashboard.jsp");

        } else {
            rd = request.getRequestDispatcher("loginerror.jsp");
        }
        if (session.getAttribute("isValid") == null)
            session.setAttribute("isValid", isValid);
        admin.destroy();
        rd.forward(request, response);
    }
}

```

LogoutController.java

```

package com.scode.admin.controllers;

import java.io.IOException;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;

```

```

import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class LogoutController
 */
@WebServlet("/logout")
public class LogoutController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public LogoutController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
     * response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();
        RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
        if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {

```

```

        rd.forward(request, response);
    } else {
        session.invalidate();
        rd.forward(request, response);
    }
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
 *      response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

}

```

ShowClassController.java

```

package com.scode.admin.controllers;

import java.io.IOException;
import java.util.ArrayList;

import com.scode.admin.model.Classes;
import com.scode.admin.model.Teacher;

```

```
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController
 */
@WebServlet("/showclasses")
public class ShowClassesController extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowClassesController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
}
```



```

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

            HttpSession session = request.getSession();

            if(session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
            "false") {

                RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
                rd.forward(request, response);
            }else {

                Classes classes = new Classes();
                ArrayList<Classes> allclasses = classes.getClasses();
                RequestDispatcher rd = request.getRequestDispatcher("showclasses.jsp");
                if(allclasses.isEmpty()) {
                    request.setAttribute("message", "No classes found in database");
                }else {
                    request.setAttribute("message", "Found below classes in
database");
                }
                request.setAttribute("classes", allclasses);
                classes.destroy();
                rd.forward(request, response);
            }
        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
        response)
         */

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

```

```
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}
```

ShowClassInfoController.java

```
package com.scode.admin.controllers;

import java.io.IOException;
import java.util.ArrayList;

import com.scode.admin.model.Classes;
import com.scode.admin.model.Student;
import com.scode.admin.model.Subject;
import com.scode.admin.model.SubjectAssignment;
import com.scode.admin.model.Teacher;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController
 */
```

```

*/
@WebServlet("/showclassinfo")
public class ShowClassInfoController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowClassInfoController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
     * response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();
        if (session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {

            RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
            rd.forward(request, response);
        } else if (request.getParameter("classid") == null) {
            RequestDispatcher rd = request.getRequestDispatcher("dashboard.jsp");
            rd.forward(request, response);

```

```

    } else {
        String id = request.getParameter("classid");
        Classes ci = new Classes();
        int result = ci.findClass(id);

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

        if (result == -1) {
            request.setAttribute("message", "No class info found in
database");

            request.setAttribute("isFound", false);
            request.setAttribute("teachers", "");
            ci.destroy();
            rd.forward(request, response);
        } else {
            request.setAttribute("isFound", true);
            Teacher teacher = new Teacher();
            ArrayList<Teacher> teachers = teacher.getTeachers(id);
            if(teachers.isEmpty()) {
                request.setAttribute("tmessage", "No teachers are
assigned to this class");
            }else {
                request.setAttribute("tmessage", "Found below teachers
assigned to this class");
            }
            request.setAttribute("teachers", teachers);
            Subject subject = new Subject();
            ArrayList<Subject> subjects = subject.getSubjects(id);
            if(subjects.isEmpty()) {

```

```

        request.setAttribute("smessage", "No subjects are
assigned to this class");
    }else {
        request.setAttribute("smessage", "Found below subjects
assigned to this class");
    }
    request.setAttribute("subjects", subjects);
    Student stu = new Student();
    ArrayList<Student> students = stu.getStudents(id);
    if(students.isEmpty()) {
        request.setAttribute("stumessage", "No students are
assigned to this class");
    }else {
        request.setAttribute("stumessage", "Found below students
assigned to this class");
    }
    request.setAttribute("students", students);
    rd.forward(request, response);
}

}

}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
 * response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {

```

```
        // TODO Auto-generated method stub
        doGet(request, response);
    }

}
```

ShowStudentsController.java

```
package com.scode.admin.controllers;

import java.io.IOException;
import java.util.ArrayList;

import com.scode.admin.model.Student;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController
 */
@WebServlet("/showstudents")
public class ShowStudentsController extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

```

/**
 * @see HttpServlet#HttpServlet()
 */
public ShowStudentsController() {
    super();
    // TODO Auto-generated constructor stub
}

/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    HttpSession session = request.getSession();
    if(session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
    "false") {
        RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
        rd.forward(request, response);
    }else {
        Student student = new Student();
        ArrayList<Student> students = student.getStudents();
//        System.out.println(students);
        RequestDispatcher rd =
request.getRequestDispatcher("showstudents.jsp");
        if(students.isEmpty()) {
            request.setAttribute("message", "No students found in
database");

```

```

        }else {
            request.setAttribute("message", "Found below students in
database");
        }
        request.setAttribute("students", students);
        student.destroy();
        rd.forward(request, response);
    }
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

}

```

ShowSubjectAssignmentController.java

```

package com.scode.admin.controllers;

import java.io.IOException;
import java.util.ArrayList;

import com.scode.admin.model.SubjectAssignment;

```



```
import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController
 */
@WebServlet("/showsubjectassignments")
public class ShowSubjectsAssignmentController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowSubjectsAssignmentController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    */
```

```

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

            HttpSession session = request.getSession();

            if(session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
            "false") {

                RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
                rd.forward(request, response);

            }else {

                SubjectAssignment sa = new SubjectAssignment();
                ArrayList<SubjectAssignment> sas = sa.getAssignments();

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

                if(sas.isEmpty()) {

                    request.setAttribute("message", "No assignments found in
                    database");

                }else {

                    request.setAttribute("message", "Found below subjects in
                    database");

                }

                request.setAttribute("sas", sas);
                sa.destroy();
                rd.forward(request, response);

            }

        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
        response)
         */
    
```

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

            // TODO Auto-generated method stub

            doGet(request, response);

        }

    }
}
```

ShowSubjectsController.java

```
package com.scode.admin.controllers;

import java.io.IOException;
import java.util.ArrayList;

import com.scode.admin.model.Subject;
import com.scode.admin.model.Teacher;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController
 */
```

```

@WebServlet("/showsubjects")

public class ShowSubjectsController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowSubjectsController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();
        if(session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {

            RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
            rd.forward(request, response);
        }else {
            Subject subject = new Subject();
            ArrayList<Subject> subjects = subject.getSubjects();

            RequestDispatcher rd =
request.getRequestDispatcher("showsubjects.jsp");
            if(subjects.isEmpty()) {

```

```

        request.setAttribute("message", "No subjects found in database");
    }else {
        request.setAttribute("message", "Found below subjects in
database");
    }
    request.setAttribute("subjects", subjects);
    subject.destroy();
    rd.forward(request, response);
}
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

}

```

ShowTeachersAssignmentController.java

```
package com.scode.admin.controllers;
```

```
import java.io.IOException;
```

```
import java.util.ArrayList;
```

```

import com.scode.admin.model.Teacher;
import com.scode.admin.model.TeacherAssignment;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController
 */
@WebServlet("/showteacherassignments")
public class ShowTeachersAssignmentController extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowTeachersAssignmentController() {
        super();

        // TODO Auto-generated constructor stub
    }

    /**

```

```

        * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
        */

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

            HttpSession session = request.getSession();

            if(session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
            "false") {

                RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
                rd.forward(request, response);
            }else {

                TeacherAssignment ta = new TeacherAssignment();
                ArrayList<TeacherAssignment> tas = ta.getAssignments();

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

                if(tas.isEmpty()) {

                    request.setAttribute("message", "No assignments found in
                    database");

                }else {

                    request.setAttribute("message", "Found below teachers in
                    database");

                }

                request.setAttribute("tas", tas);
                ta.destroy();
                rd.forward(request, response);
            }
        }

        /**

```

```

        * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
        */

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

            // TODO Auto-generated method stub

            doGet(request, response);

        }

    }

```

ShowTeachersController.java

```

package com.scode.admin.controllers;

import java.io.IOException;
import java.util.ArrayList;

import com.scode.admin.model.Teacher;

import jakarta.servlet.RequestDispatcher;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

/**
 * Servlet implementation class ShowPlacesController

```



```

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

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ShowTeachersController() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        HttpSession session = request.getSession();
        if(session.getAttribute("isValid") == null || session.getAttribute("isValid") ==
"false") {
            RequestDispatcher rd = request.getRequestDispatcher("index.jsp");
            rd.forward(request, response);
        }else {
            Teacher teacher = new Teacher();
            ArrayList<Teacher> teachers = teacher.getTeachers();
            RequestDispatcher rd =
request.getRequestDispatcher("showteachers.jsp");

```

```

        if(teachers.isEmpty()) {
            request.setAttribute("message", "No teachers found in
database");
        }else {
            request.setAttribute("message", "Found below teachers in
database");
        }
        request.setAttribute("teachers", teachers);
        teacher.destroy();
        rd.forward(request, response);
    }
}

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}
}

```