**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");

%>

<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>

<%

Connection con = ConnectionUtil.getConnection();

PreparedStatement stmt = con.prepareStatement("select \* from classes");

ArrayList<String> classes = **new** ArrayList<String>();

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>

<td colspan=*"2"*><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>

<tr>

<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 + "]";

}

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 [Subjetc 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);

}

}