**Source Code of Learner’s Academy**

**Login.jsp:**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Learners Academy </title>

</head>

<!-- Font Awesome -->

<link

href=*"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css"*

rel=*"stylesheet"*

/>

<!-- Google Fonts -->

<link

href=*"https://fonts.googleapis.com/css?family=Roboto:300,400,500,700&display=swap"*

rel=*"stylesheet"*

/>

<!-- MDB -->

<link

href=*"https://cdnjs.cloudflare.com/ajax/libs/mdb-ui-kit/6.2.0/mdb.min.css"*

rel=*"stylesheet"*

/>

<body>

<!-- Navbar -->

<nav class=*"navbar navbar-expand-lg bg-info navbar-dark fixed-top"*>

<!-- Container wrapper -->

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

<!-- Navbar brand -->

<a class=*"navbar-brand"* href=*"#"*><strong>Learners Academy Admistrator Access</strong></a>

<!-- Toggle button -->

<button class=*"navbar-toggler"* type=*"button"* data-mdb-toggle=*"collapse"* data-mdb-target=*"#navbarSupportedContent"* aria-controls=*"navbarSupportedContent"* aria-expanded=*"false"* aria-label=*"Toggle navigation"*>

<i class=*"fas fa-bars"*></i>

</button>

<!-- Collapsible wrapper -->

<div class=*"collapse navbar-collapse"* id=*"navbarSupportedContent"*>

<ul class=*"navbar-nav me-auto mb-2 mb-lg-0"*>

</ul>

</div>

</div>

<!-- Container wrapper -->

</nav>

<!-- Navbar -->

<section class=*"vh-100"* style="position: *relative*;

top: *10pc*;height: *75vh!important*;">

<div class=*"container-fluid h-custom"*>

<div class=*"row d-flex justify-content-center align-items-center h-100"*>

<div class=*"col-md-9 col-lg-6 col-xl-5"*>

<img src=*"https://mdbcdn.b-cdn.net/img/Photos/new-templates/bootstrap-login-form/draw2.webp"*

class=*"img-fluid"* alt=*"Sample image"*>

</div>

<div class=*"col-md-8 col-lg-6 col-xl-4 offset-xl-1"*>

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

<div class=*"d-flex flex-row align-items-center justify-content-center justify-content-lg-start"*>

<p class=*"lead fw-normal mb-0 me-3"*>Sign in </p>

</div>

<!-- Email input -->

<div class=*"form-outline mb-4"*>

<input type=*"text"* id=*"form3Example3"* class=*"form-control form-control-lg"* name=*"username"*

placeholder=*"Enter a valid Username"* required/>

<label class=*"form-label"* for=*"form3Example3"*>Usename</label>

</div>

<!-- Password input -->

<div class=*"form-outline mb-3"*>

<input type=*"password"* id=*"form3Example4"* class=*"form-control form-control-lg"* name=*"password"*

placeholder=*"Enter password"* required/>

<label class=*"form-label"* for=*"form3Example4"*>Password</label>

</div>

<div class=*"text-center text-lg-start mt-4 pt-2"*>

<button type=*"submit"* class=*"btn btn-primary btn-lg"*

style="padding-left: *2.5rem*; padding-right: *2.5rem*;">Login</button>

</div>

</form>

</div>

</div>

</div>

</section>

<!-- MDB -->

<script

type=*"text/javascript"*

src=*"https://cdnjs.cloudflare.com/ajax/libs/mdb-ui-kit/6.2.0/mdb.min.js"*

></script>

</body>

</html>

**Sidebar.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!doctype html>

<html lang=*"en"* data-bs-theme=*"auto"*>

<head><script src=*"../assets/js/color-modes.js"*></script>

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

<meta name=*"viewport"* content=*"width=device-width, initial-scale=1"*>

<meta name=*"description"* content=*""*>

<meta name=*"author"* content=*"Mark Otto, Jacob Thornton, and Bootstrap contributors"*>

<meta name=*"generator"* content=*"Hugo 0.111.3"*>

<title>Sidebars · Bootstrap v5.3</title>

<link rel=*"canonical"* href=*"https://getbootstrap.com/docs/5.3/examples/sidebars/"*>

<link href=*"https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha2/dist/css/bootstrap.min.css"* rel=*"stylesheet"* integrity=*"sha384-aFq/bzH65dt+w6FI2ooMVUpc+21e0SRygnTpmBvdBgSdnuTN7QbdgL+OapgHtvPp"* crossorigin=*"anonymous"*>

<style>

*.bd-placeholder-img* {

font-size: *1.125rem*;

text-anchor: *middle*;

-webkit-user-select: *none*;

-moz-user-select: *none*;

user-select: *none*;

}

@media (min-width: 768px) {

*.bd-placeholder-img-lg* {

font-size: *3.5rem*;

}

}

*.b-example-divider* {

width: *100%*;

height: *3rem*;

background-color: *rgba(0, 0, 0, .1)*;

border: *solid rgba(0, 0, 0, .15)*;

border-width: *1px 0*;

box-shadow: *inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em rgba(0, 0, 0, .15)*;

}

*.b-example-vr* {

flex-shrink: *0*;

width: *1.5rem*;

height: *100vh*;

}

*.bi* {

vertical-align: *-.125em*;

fill: *currentColor*;

}

*.nav-scroller* {

position: *relative*;

z-index: *2*;

height: *2.75rem*;

overflow-y: *hidden*;

}

*.nav-scroller* *.nav* {

display: *flex*;

flex-wrap: *nowrap*;

padding-bottom: *1rem*;

margin-top: *-1px*;

overflow-x: *auto*;

text-align: *center*;

white-space: *nowrap*;

-webkit-overflow-scrolling: *touch*;

}

*.btn-bd-primary* {

--bd-violet-bg: *#712cf9*;

--bd-violet-rgb: *112.520718, 44.062154, 249.437846*;

--bs-btn-font-weight: *600*;

--bs-btn-color: *var(*-*-bs-white)*;

--bs-btn-bg: *var(*-*-bd-violet-bg)*;

--bs-btn-border-color: *var(*-*-bd-violet-bg)*;

--bs-btn-hover-color: *var(*-*-bs-white)*;

--bs-btn-hover-bg: *#6528e0*;

--bs-btn-hover-border-color: *#6528e0*;

--bs-btn-focus-shadow-rgb: *var(*-*-bd-violet-rgb)*;

--bs-btn-active-color: *var(*-*-bs-btn-hover-color)*;

--bs-btn-active-bg: *#5a23c8*;

--bs-btn-active-border-color: *#5a23c8*;

}

*.bd-mode-toggle* {

z-index: *1500*;

}

**li**{

margin-bottom:*5px*;}

</style>

<!-- Custom styles for this template -->

<link href=*"sidebars.css"* rel=*"stylesheet"*>

</head>

<body>

<main class=*"d-flex flex-nowrap"* style=" position: *absolute*;

left: *-23px*;

width: *24%*;

border: *2px solid*;">

<h1 class=*"visually-hidden"*></h1>

<div class=*"b-example-divider b-example-vr"*></div>

<div class=*"d-flex flex-column flex-shrink-0 p-3 bg-body-tertiary"* style="width: *280px*;">

<a href=*"/"* class=*"d-flex align-items-center mb-3 mb-md-0 me-md-auto link-body-emphasis text-decoration-none"*>

<svg class=*"bi pe-none me-2"* width=*"40"* height=*"32"*><use xlink:href=*"#bootstrap"*/></svg>

<span class=*"fs-4 "*><strong>Learner's Academy </strong></span>

</a>

<hr>

<ul class=*"nav nav-pills flex-column mb-auto"*>

<li class=*"nav-item"*>

<a href=*"Subjects"* class=*"nav-link active"* aria-current=*"page"*>

<svg class=*"bi pe-none me-2"* width=*"16"* height=*"16"*><use xlink:href=*"#home"*/></svg>

Subjects

</a>

</li>

<li>

<a href=*"Teachers"* class=*"nav-link active link-body-emphasis"*>

<svg class=*"bi pe-none me-2"* width=*"16"* height=*"16"*><use xlink:href=*"#speedometer2"*/></svg>

Teachers

</a>

</li>

<li>

<a href=*"Classes"* class=*"nav-link active link-body-emphasis"*>

<svg class=*"bi pe-none me-2"* width=*"16"* height=*"16"*><use xlink:href=*"#table"*/></svg>

Classes

</a>

</li>

<li>

<a href=*"Classes-subjects"* class=*"nav-link active link-body-emphasis"*>

<svg class=*"bi pe-none me-2"* width=*"16"* height=*"16"*><use xlink:href=*"#grid"*/></svg>

Classes-subjects

</a>

</li>

<li>

<a href=*"Teachers-subject"* class=*"nav-link active link-body-emphasis"*>

<svg class=*"bi pe-none me-2"* width=*"16"* height=*"16"*><use xlink:href=*"#people-circle"*/></svg>

Teachers-subject

</a>

</li>

<li>

<a href=*"Students"* class=*"nav-link active link-body-emphasis"*>

<svg class=*"bi pe-none me-2"* width=*"16"* height=*"16"*><use xlink:href=*"#people-circle"*/></svg>

Students

</a>

</li>

</ul>

<hr>

<div class=*"dropdown"*>

<strong> <a href=*"LogoutServlet"* >

log out</a></strong>

</div>

</div>

</main>

<!-- As a link -->

<!-- As a heading -->

<nav class=*"navbar navbar-dark bg-primary text-center"* style="position: *relative*;

left: *293px*;

top: *8px*;

width: *77%*;

border: *2px crimson*;

border-radius: *3px*">

<span class=*"navbar-brand mb-0 h1 "* style=" margin: *0 auto*;">${Name} Master List</span>

</nav>

<script src=*"https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha2/dist/js/bootstrap.bundle.min.js"* integrity=*"sha384-qKXV1j0HvMUeCBQ+QVp7JcfGl760yU08IQ+GpUo5hlbpg51QRiuqHAJz8+BrxE/N"* crossorigin=*"anonymous"*></script>

<script src=*"sidebars.js"*></script>

</body>

</html>

**Students-List.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<table class=*"table table-striped"* style="position: *relative*;

left: *19pc*;

width: *75%*;

top: *29px*;">

<thead class=*"bg-primary"*>

<tr>

<th scope=*"col"*>Id</th>

<th scope=*"col"*>First Name</th>

<th scope=*"col"*>Last Name</th>

<th scope=*"col"*>Age</th>

<th scope=*"col"*>Class</th>

</tr>

</thead>

<tbody>

<c:forEach var=*"lis"* items=*"*${list}*"*>

<tr>

<th scope=*"row"*>${lis.id}</th>

<td>${lis.firstname}</td>

<td>${lis.lastname}</td>

<td>${lis.age}</td>

<td>${lis.aclass}</td>

</tr>

</c:forEach>

</tbody>

</table>

</body>

</html>

**Subjects-List.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<table class=*"table table-striped"* style="position: *relative*;

left: *19pc*;

width: *75%*;

top: *29px*;">

<thead class=*"bg-primary"*>

<tr>

<th scope=*"col"*>Id</th>

<th scope=*"col"*>Subject Name</th>

</tr>

</thead>

<tbody>

<c:forEach var=*"lis"* items=*"*${list}*"*>

<tr>

<th scope=*"row"*>${lis.id}</th>

<td>${lis.name}</td>

</tr>

</c:forEach>

</tbody>

</table</body></html>

**Teachers-list.jsp**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<table class=*"table table-striped"* style="position: *relative*;

left: *19pc*;

width: *75%*;

top: *29px*;">

<thead class=*"bg-primary"*>

<tr>

<th scope=*"col"*>Id</th>

<th scope=*"col"*>First Name</th>

<th scope=*"col"*>Last Name</th>

<th scope=*"col"*>Age</th>

</tr>

</thead>

<tbody>

<c:forEach var=*"lis"* items=*"*${list}*"*>

<tr>

<th scope=*"row"*>${lis.id}</th>

<td>${lis.firstname}</td>

<td>${lis.lastname}</td>

<td>${lis.age}</td>

</tr>

</c:forEach>

</tbody>

</table>

</body>

</html>

Class-List.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<table class=*"table table-striped"* style="position: *relative*;

left: *19pc*;

width: *75%*;

top: *29px*;">

<thead class=*"bg-primary"*>

<tr>

<th scope=*"col"*>Class Id</th>

<th scope=*"col"*>Section</th>

<th scope=*"col"*>Subject</th>

<th scope=*"col"*>Teacher</th>

<th scope=*"col"*>time</th>

<th scope=*"col"*>Students</th>

</tr>

</thead>

<tbody>

<c:forEach var=*"tempClass"* items=*"*${CLASSES\_LIST }*"*>

<tr>

<c:url var=*"tempLink"* value=*"/"*>

<c:param name=*"command"* value=*"/ST\_LIST"* />

<c:param name=*"classId"* value=*"*${tempClass.id }*"* />

<c:param name=*"section"* value=*"*${tempClass.section }*"* />

<c:param name=*"subject"* value=*"*${tempClass.subject }*"* />

</c:url>

<td>${tempClass.id}</td>

<td>${tempClass.section}</td>

<td>${tempClass.subject}</td>

<td>${tempClass.teacher}</td>

<td>${tempClass.time}</td>

<td><a href=*"*${tempLink }*"*>List</a></td>

</tr>

</c:forEach>

</tbody>

</table>

</body>

</html>

Class-Students.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<table class=*"table table-striped"* style="position: *relative*;

left: *19pc*;

width: *75%*;

top: *29px*;">

<thead class=*"bg-primary"*>

<tr>

<th>First Name</th>

<th>Last Name</th>

<th>age</th>

</tr>

</thead>

<tbody>

<c:forEach var=*"tempStudent"* items=*"*${STUDENTS\_LIST}*"*>

<tr>

<td>${tempStudent.firstname}</td>

<td>${tempStudent.lastname}</td>

<td>${tempStudent.age}</td>

</tr>

</c:forEach>

</tbody>

</table>

</body>

</html>

Assign\_Teacher\_Class\_For\_Subjects.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<form style="position: *relative*;

width: *18%*;

top: *10pc*;

margin: *0 auto*;

left: *11pc*;" action=*"Assign\_classSubTeacher"* method=*"post"*>

<strong><h2 style="font-size: *.9rem*;">Assign Teacher to a Class for a subject</h2></strong>

<div class=*"form-group"*>

<label for=*"exampleInputEmail1"*>Select a Class</label>

<select class=*"form-control w-75"* name=*"class"*>

<c:forEach var=*"ca"* items=*"*${Classes}*"*>

<option class=*"option"* value=*"*${ca.id}*"*>${ca.id}</option>

</c:forEach>

</select>

</div>

<div class=*"form-group"*>

<label for=*"exampleInputPassword1"*>Select a Subject</label>

<select class=*"form-control w-75"* name=*"subject"*>

<c:forEach var=*"sub"* items=*"*${Subjects}*"*>

<option class=*"option"* value=*"*${sub.id}*"*>${sub.name}</option>

</c:forEach>

</select>

</div>

<div class=*"form-group"*>

<label for=*"exampleInputPassword1"*>Select a Teacher</label>

<select class=*"form-control w-75"* name=*"teacher"*>

<c:forEach var=*"teah"* items=*"*${Teachers}*"*>

<option class=*"option"* value=*"*${teah.id}*"*>${teah.firstname} ${teah.lastname}</option>

</c:forEach>

</select>

</div>

<br>

${msg}

<br>

<button type=*"submit"* class=*"btn btn-primary"*>Assign</button>

</form>

</table>

</body>

</html>

Assign\_Classes-Subjects.jsp

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ taglib uri=*"http://java.sun.com/jsp/jstl/core"* prefix=*"c"*%>

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Insert title here</title>

</head>

<body>

<jsp:include page=*"Sidebar.jsp"* />

<form style="position: *relative*;

width: *18%*;

top: *10pc*;

margin: *0 auto*;

left: *11pc*;" action=*"Assign\_classSub"* method=*"post"*>

<strong>

<h2 style="font-size: *1.1rem*;">Assign Classes For Subjects</h2></strong>

<div class=*"form-group"*>

<label for=*"exampleInputEmail1"*>Select a Class</label>

<select class=*"form-control w-75"* name=*"class"*>

<c:forEach var=*"ca"* items=*"*${Classes}*"*>

<option class=*"option"* value=*"*${ca.id}*"*>${ca.id}</option>

</c:forEach>

</select>

</div>

<div class=*"form-group"*>

<label for=*"exampleInputPassword1"*>Select a Subject</label>

<select class=*"form-control w-75"* name=*"subject"*>

<c:forEach var=*"sub"* items=*"*${Subjects}*"*>

<option class=*"option"* value=*"*${sub.id}*"*>${sub.name}</option>

</c:forEach>

</select>

</div>

<br> ${msg}<br>

<button type=*"submit"* class=*"btn btn-primary"*>Assign</button>

</form>

</table>

</body>

</html>

COM.MODELS

Class.java;

**package** com.models;

**public** **class** Class {

**private** **int** id;

**private** **int** section;

**private** String teacher;

**private** String subject;

**private** String time;

**public** Class(**int** id, **int** section, String teacher, String subject, String time) {

**super**();

**this**.id = id;

**this**.section = section;

**this**.teacher = teacher;

**this**.subject = subject;

**this**.time = time;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** **int** getSection() {

**return** section;

}

**public** **void** setSection(**int** section) {

**this**.section = section;

}

**public** String getTeacher() {

**return** teacher;

}

**public** **void** setTeacher(String teacher) {

**this**.teacher = teacher;

}

**public** String getSubject() {

**return** subject;

}

**public** **void** setSubject(String subject) {

**this**.subject = subject;

}

**public** String getTime() {

**return** time;

}

**public** **void** setTime(String time) {

**this**.time = time;

}

}

Student.java

**package** com.models;

**public** **class** Student {

**private** **int** id;

**private** String firstname;

**private** String lastname;

**private** **int** age;

**private** **int** aclass;

**public** Student(**int** id, String firstname, String lastname, **int** age, **int** aclass) {

**super**();

**this**.id = id;

**this**.firstname = firstname;

**this**.lastname = lastname;

**this**.age = age;

**this**.aclass = aclass;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getfirstname() {

**return** firstname;

}

**public** **void** setfirstname(String firstname) {

**this**.firstname = firstname;

}

**public** String getlastname() {

**return** lastname;

}

**public** **void** setlastname(String lastname) {

**this**.lastname = lastname;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** **int** getAclass() {

**return** aclass;

}

**public** **void** setAclass(**int** aclass) {

**this**.aclass = aclass;

}

@Override

**public** String toString() {

**return** "Student [id=" + id + ", firstname=" + firstname + ", lastname=" + lastname + ", age=" + age + ", aclass=" + aclass

+ "]";}}

Subject.java

**package** com.models;

**public** **class** Subject {

**private** **int** id;

**private** String name;

**public** Subject(**int** id, String name ) {

**super**();

**this**.id = id;

**this**.name = name;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

Teacher.jsp

**package** com.models;

**public** **class** Teacher {

**private** **int** id;

**private** String firstname;

**private** String lastname;

**private** **int** age;

**public** Teacher(**int** id, String firstname, String lastname, **int** age) {

**super**();

**this**.id = id;

**this**.firstname = firstname;

**this**.lastname = lastname;

**this**.age = age;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getfirstname() {

**return** firstname;

}

**public** **void** setfirstname(String firstname) {

**this**.firstname = firstname;

}

**public** String getlastname() {

**return** lastname;

}

**public** **void** setlastname(String lastname) {

**this**.lastname = lastname;

}

**public** **int** getAge() {

**return** age;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

}

COM.CONTROLLER

ServletController.java

package com.controller;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.List;

import javax.annotation.Resource;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import javax.sql.DataSource;

import com.models.Student;

import com.models.Class;

import com.models.Teacher;

import com.utils.DB\_Querys;

import com.models.Subject;

/\*\*

\* Servlet implementation class ServletController

\*/

@WebServlet("/")

public class ServletController extends HttpServlet {

private static final long serialVersionUID = 1L;

Connection con;

Statement stmt;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public ServletController() {

super();

// TODO Auto-generated constructor stub

}

@Resource(name="jdbc/Learners\_Academy")

DataSource datasource;

/\*\*

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

\*/

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

// TODO Auto-generated method stub

String action=request.getServletPath();

// PrintWriter out=response.getWriter();

// out.println(action);

System.out.println(action);

switch(action) {

case "/LoginServlet":

login(request,response);

break;

case "/LogoutServlet":

logout(request,response);

break;

case "/Subjects":

Subjects(request,response);

break;

case "/Teachers":

Teachers(request,response);

break;

case "/Classes":

Classes(request, response);

break;

case "/Classes-subjects":

Assign\_Classes\_and\_subjects(request,response);

break;

case "/Teachers-subject":

Assign\_Classes\_and\_Teacher\_for\_subject(request,response);

break;

case "/Students":

Studnets(request,response);;

break;

case "/Assign\_classSubTeacher":

Assign\_classSubTeacher(request,response);

break;

case "/Assign\_classSub":

Assign\_classSub(request,response);

break;

case "/":

System.out.println("a");

classStudentsList(request, response);

break;

default:

break;

}

}

private void login(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

String uname=request.getParameter("username");

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

if(uname.equals("admin") && pass.equals("admin")) {

HttpSession session=request.getSession();

session.setAttribute("username", uname);

session.setAttribute("password", pass);

RequestDispatcher dispatcher = request.getRequestDispatcher("/Students");

dispatcher.forward(request, response);

}

else {

System.out.println("<h1>Invalid Login</h1>");

}

//

}

private void logout(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

request.getSession().invalidate();

RequestDispatcher dispatcher = request.getRequestDispatcher("/Login.jsp");

dispatcher.forward(request, response);

}

private void Subjects(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

try {

DB\_Querys Utils=new DB\_Querys(datasource);

request.setAttribute("list", Utils.Subjects());

request.setAttribute("Name", "Subjects");

RequestDispatcher dispatcher = request.getRequestDispatcher("Subjects-List.jsp");

dispatcher.forward(request, response);

}

catch(NumberFormatException ignored) {

}

}

private void Teachers(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

try {

DB\_Querys Utils=new DB\_Querys(datasource);

request.setAttribute("list", Utils.Teachers());

request.setAttribute("Name", "Teachers");

RequestDispatcher dispatcher = request.getRequestDispatcher("Teachers-List.jsp");

dispatcher.forward(request, response);

//

}catch(NumberFormatException ignored) {

}

}

private void Studnets(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

try {

DB\_Querys Utils=new DB\_Querys(datasource);

request.setAttribute("list", Utils.Students());

request.setAttribute("Name", "Students");

RequestDispatcher dispatcher = request.getRequestDispatcher("Students-List.jsp");

dispatcher.forward(request, response);

//

}catch(NumberFormatException ignored) {

}

}

private void Classes(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

try {

DB\_Querys Utils=new DB\_Querys(datasource);

request.setAttribute("CLASSES\_LIST", Utils.Classes());

request.setAttribute("Name", "Classes");

RequestDispatcher dispatcher = request.getRequestDispatcher("Classes-List.jsp");

dispatcher.forward(request, response);

//

}

catch(NumberFormatException ignored) {

}

}

private void Assign\_classSub(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

int classId = Integer.parseInt(request.getParameter("class"));

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

// get subjects from db util

// System.out.println(classsubject);

DB\_Querys Utils=new DB\_Querys(datasource);

int result=Utils.UpdateClassTable(classId, subject);

if(result==1) {

request.setAttribute("msg", "Assigned Succesfully");

RequestDispatcher dispatcher = request.getRequestDispatcher("/Assign\_Classes-Subjects.jsp");

dispatcher.forward(request, response);

}

}

private void Assign\_classSubTeacher(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

int classId = Integer.parseInt(request.getParameter("class"));

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

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

// get subjects from db util

System.out.println(classId+teacher+subject);

DB\_Querys Utils=new DB\_Querys(datasource);

int result=Utils.UpdateClassTable(classId, teacher, subject);

if(result==1) {

request.setAttribute("msg", "Assigned Succesfully");

RequestDispatcher dispatcher = request.getRequestDispatcher("/Assign\_Teacher\_Class\_For\_Subjects.jsp");

dispatcher.forward(request, response);

}

}

private void classStudentsList(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

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

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

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

// get subjects from db util

System.out.println("A");

DB\_Querys Utils=new DB\_Querys(datasource);

// add subjects to the request

List<Student> stu=new ArrayList<>();

stu=Utils.loadClassStudents(classId);

System.out.println(stu.size());

request.setAttribute("STUDENTS\_LIST",stu );

request.setAttribute("Name", "Students of "+ subject+" class of "+classId+" section of "+section);

// send it to the jSP view page

RequestDispatcher dispatcher = request.getRequestDispatcher("/class-students.jsp");

dispatcher.forward(request, response);

}

private void Assign\_Classes\_and\_subjects(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

try {

DB\_Querys Utils=new DB\_Querys(datasource);

request.setAttribute("Subjects", Utils.Subjects());

request.setAttribute("Classes", Utils.Classes());

RequestDispatcher dispatcher = request.getRequestDispatcher("/Assign\_Classes-Subjects.jsp");

dispatcher.forward(request, response);

//

}catch(NumberFormatException ignored) {

}

}

private void Assign\_Classes\_and\_Teacher\_for\_subject(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

try {

DB\_Querys Utils=new DB\_Querys(datasource);

request.setAttribute("Subjects", Utils.Subjects());

request.setAttribute("Classes", Utils.Classes());

request.setAttribute("Teachers", Utils.Teachers());

RequestDispatcher dispatcher = request.getRequestDispatcher("/Assign\_Teacher\_Class\_For\_Subjects.jsp");

dispatcher.forward(request, response);

//

}catch(NumberFormatException ignored) {

}

}

/\*\*

\* @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);

}

}

DB\_QUERY.java

package com.utils;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.List;

import javax.sql.DataSource;

import com.models.Student;

import com.models.Subject;

import com.models.Teacher;

import com.models.Class;

public class DB\_Querys {

private DataSource datasource;

Connection con = null;

Statement stmt = null;

public DB\_Querys(DataSource datasource) {

this.datasource = datasource;

}

public List<Subject> Subjects() {

List<Subject> temp\_list = new ArrayList<>();

try {

// get connection from connection pool

con = this.datasource.getConnection();

stmt = con.createStatement();

ResultSet resultSet = stmt.executeQuery("select \* from subjects");

while (resultSet.next()) {

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

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

Subject Subjects= new Subject(id, name);

temp\_list.add(Subjects);

System.out.println(id);

}

} catch (SQLException e) {

e.printStackTrace();

}finally {

close(con,stmt);

}

return temp\_list;

}

public List<Teacher> Teachers() {

List<Teacher> temp\_list = new ArrayList<>();

try {

// get connection from connection pool

con = this.datasource.getConnection();

stmt = con.createStatement();

ResultSet resultSet = stmt.executeQuery("select \* from teachers");

while (resultSet.next()) {

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

String fname = resultSet.getString("firstname");

String lname = resultSet.getString("lastname");

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

Teacher teah = new Teacher(id, fname, lname,age);

temp\_list.add(teah);

System.out.println(id);

}

} catch (SQLException e) {

e.printStackTrace();

}finally {

close(con,stmt);

}

return temp\_list;

}

public List<Class> Classes() {

List<Class> classes = new ArrayList<>();

try {

// get connection from connection pool

con = this.datasource.getConnection();

stmt = con.createStatement();

ResultSet myRs = stmt.executeQuery("select \* from classes");

while (myRs.next()) {

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

int section = myRs.getInt("section");

int subject = myRs.getInt("subject");

int teacher = myRs.getInt("teacher");

String time = myRs.getString("time");

Teacher tempTeacher = loadTeacher(teacher);

Subject tempSubject = loadSubject(subject);

String teacher\_name = tempTeacher.getfirstname() + " " + tempTeacher.getlastname();

// create new student object

Class temp = new Class(id, section, teacher\_name, tempSubject.getName(), time);

// add it to the list of students

classes.add(temp);

}

} catch (SQLException e) {

e.printStackTrace();

}finally {

close(con,stmt);

}

return classes;

}

public List<Student> Students() {

List<Student> temp\_list = new ArrayList<>();

try {

// get connection from connection pool

con = this.datasource.getConnection();

stmt = con.createStatement();

ResultSet resultSet = stmt.executeQuery("select \* from students");

while (resultSet.next()) {

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

String fname = resultSet.getString("firstname");

String lname = resultSet.getString("lastname");

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

int aclass= resultSet.getInt("class");

System.out.println(id);

Student stu= new Student(id, fname, lname, age,aclass);

temp\_list.add(stu);

}

} catch (SQLException e) {

e.printStackTrace();

}finally {

close(con,stmt);

}

return temp\_list;

}

private void close(Connection con, Statement stmt) {

try {

if (stmt != null)

stmt.close();

if (con != null)

con.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

public List<Student> loadClassStudents(int classId) {

List<Student> students = new ArrayList<>();

Connection myConn = null;

Statement myStmt = null;

System.out.println("IN");

try {

// get a connection

myConn = datasource.getConnection();

// create sql stmt

String sql = "select \* from students WHERE class =" + classId;

myStmt = myConn.createStatement();

// execute query

ResultSet res = myStmt.executeQuery(sql);

// process result

int size=0;

while (res.next()) {

size++;

System.out.println(size);

// if (res.next()) {

// retrieve data from result set row

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

String firstName = res.getString("firstname");

String lastName = res.getString("lastname");

int age = res.getInt("age");

int aclass = res.getInt("class");

// create new student object

Student tempStudent = new Student(id, firstName, lastName, age, aclass);

students.add(tempStudent);

System.out.println("B "+tempStudent.getfirstname());

//

// }else {

// size=1000;

// System.out.println("ASAS"+size);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt);

}

System.out.println(students.size());

return students;

}

public Teacher loadTeacher(int teacherId) {

Teacher theTeacher = null;

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = datasource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM teachers WHERE id = " + teacherId;

myStmt = myConn.createStatement();

// execute query

myRs = myStmt.executeQuery(sql);

// process result

while (myRs.next()) {

// retrieve data from result set row

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

String fname = myRs.getString("firstname");

String lname = myRs.getString("lastname");

int age = myRs.getInt("age");

theTeacher = new Teacher(id, fname, lname, age);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt);

}

return theTeacher;

}

public Subject loadSubject(int subjectId) {

Subject theSubject = null;

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = datasource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM subjects WHERE id = " + subjectId;

myStmt = myConn.createStatement();

// execute query

myRs = myStmt.executeQuery(sql);

// process result

while (myRs.next()) {

// retrieve data from result set row

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

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

theSubject = new Subject(id, name);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt);

}

return theSubject;

}

public Class loadClass(int classId) {

Class theClass = null;

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = datasource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM clasess WHERE id = " + classId;

myStmt = myConn.createStatement();

// execute query

myRs = myStmt.executeQuery(sql);

// process result

while (myRs.next()) {

// retrieve data from result set row

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

int section = myRs.getInt("section");

int subject = myRs.getInt("subject");

int teacher = myRs.getInt("teacher");

String time = myRs.getString("time");

Teacher tempTeacher = loadTeacher(teacher);

Subject tempSubject = loadSubject(subject);

String teacher\_name = tempTeacher.getfirstname() + " " + tempTeacher.getlastname();

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt);

}

return theClass;

}

public int UpdateClassTable(int classId,int teach,int sub ) {

List<Teacher> temp\_list = new ArrayList<>();

try {

// get connection from connection pool

con = this.datasource.getConnection();

stmt = con.createStatement();

int result = stmt.executeUpdate("update classes set teacher="+teach+", subject="+sub+" where id="+classId );

if (result==1) {

return 1;

}

else {

return 0;

}

} catch (SQLException e) {

e.printStackTrace();

}finally {

close(con,stmt);

}

return 0;

}

public int UpdateClassTable(int classId,int sub ) {

try {

// get connection from connection pool

con = this.datasource.getConnection();

stmt = con.createStatement();

int result = stmt.executeUpdate("update classes set subject="+sub+" where id="+classId );

if (result==1) {

return 1;

}

else {

return 0;

}

} catch (SQLException e) {

e.printStackTrace();

}finally {

close(con,stmt);

}

return 0;

}

}

Context.xml

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<Context>

<Resource name=*"jdbc/Learners\_Academy"*

auth =*"Container"*

type=*"javax.sql.DataSource"*

maxActive=*"20"* maxIdle=*"5"* maxWait=*"10000"*

username=*"root"* password=*"root"*

driverClassName=*"com.mysql.cj.jdbc.Driver"*

url=*"jdbc:mysql://localhost:3306/Learners\_Academy"*/>

</Context>