# **JSP FILES**

# **Classes-list.jsp**

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

<!DOCTYPE html>

<html>

<head>

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

<title>List of Classes</title>

<link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>

</head>

<body style="background-image: *url('css/background.jpg')*;">

<div id=*"page"*>

<jsp:include page=*"left-list.jsp"* />

<div id=*"wrapper"*>

<div id=*"header"*>

<h3>Classes</h3>

</div>

</div>

<div id=*"container"*>

<div id=*"content"*>

<table>

<tr>

<th>Section</th>

<th>Subject</th>

<th>Teacher</th>

<th>Time</th>

<th>List of Students</th>

</tr>

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

<tr>

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

<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.section}</td>

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

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

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

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

</tr>

</c:forEach>

</table>

</div>

</div>

</div>

</body>

</html>

# **class-students.jsp**

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

<!DOCTYPE html>

<html>

<head>

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

<title>Students of a Class</title>

<link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>

</head>

<body style="background-image: *url('css/background.jpg')*;">

<div id=*"page"* >

<jsp:include page=*"left-list.jsp"* />

<div id=*"wrapper"*>

<div id=*"header"*>

<h3>Students of ${SUBJECT} class section ${SECTION} </h3>

</div>

</div>

<div id=*"container"*>

<div id=*"content"*>

<table>

<tr>

<th>First Name</th>

<th>Last Name</th>

<th>age</th>

</tr>

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

<tr>

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

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

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

</tr>

</c:forEach>

</table>

</div>

</div>

</div>

</body>

# </html>

# 

# **left-list.jsp**

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

<div class=*"sidenav"*>

<h3 id=*"logo"*>

Administrative <br /> Academy Portal

</h3>

<c:url var=*"classesLink"* value=*"AdminControllerServlet"*>

<c:param name=*"command"* value=*"CLASSES"* />

</c:url>

<c:url var=*"subjectsLink"* value=*"AdminControllerServlet"*>

<c:param name=*"command"* value=*"SUBJECTS"* />

</c:url>

<c:url var=*"teachersLink"* value=*"AdminControllerServlet"*>

<c:param name=*"command"* value=*"TEACHERS"* />

</c:url>

<c:url var=*"studentsLink"* value=*"AdminControllerServlet"*>

<c:param name=*"command"* value=*"STUDENTS"* />

</c:url>

<a class=*"bar-item"* href=*"*${classesLink}*"*>Classes</a>

<a class=*"bar-item"* href=*"*${subjectsLink}*"*>Subjects</a>

<a class=*"bar-item"* href=*"*${teachersLink}*"*>Teachers</a>

<a class=*"bar-item"* href=*"*${studentsLink}*"*>Students</a>

<a class=*"bar-item"* href=*"login.jsp"*>Log out</a>

</div>

# **list-students.jsp**

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

<!DOCTYPE html>

<html>

<head>

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

<title>List of Students</title>

<link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>

</head>

<body style="background-image: *url('css/background.jpg')*;">

<div id=*"page"* >

<jsp:include page=*"left-list.jsp"* />

<div id=*"wrapper"*>

<div id=*"header"*>

<h3>Students</h3>

</div>

</div>

<div id=*"container"*>

<div id=*"content"*>

<table>

<tr>

<th>First Name</th>

<th>Last Name</th>

<th>age</th>

</tr>

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

<tr>

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

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

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

</tr>

</c:forEach>

</table>

</div>

</div>

</div>

</body>

</html>

# **login.jsp**

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

<!DOCTYPE html>

<html>

<head>

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

<title>Login</title>

<link type=*"text/css"* rel=*"stylesheet"* href=*"css/login.css"*>

</head>

<body style="background-image: *url('css/background.jpg')*;">

<center> <h1> Admin Login </h1> </center>

<form action=*"AdminControllerServlet"* method=*"POST"*>

<div class=*"container"*>

<input type=*"hidden"* name=*"command"* value=*"LOGIN"* />

<label>Username : </label>

<br/>

<input type=*"text"* placeholder=*"Enter Username"* name=*"username"* required>

<br/>

<label>Password : </label>

<br/>

<input type=*"password"* placeholder=*"Enter Password"* name=*"password"* required>

<br/>

<button type=*"submit"*>Login</button>

<br/>

<input type=*"checkbox"* checked=*"checked"*> Remember me

</div>

</form>

</body>

</html>

# **subjects-list.jsp**

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

<!DOCTYPE html>

<html>

<head>

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

<title>List of Teachers</title>

<link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>

</head>

<body style="background-image: *url('css/background.jpg')*;">

<div id=*"page"*>

<jsp:include page=*"left-list.jsp"* />

<div id=*"wrapper"*>

<div id=*"header"*>

<h3>Subjects</h3>

</div>

</div>

<div id=*"container"*>

<div id=*"content"*>

<table>

<tr>

<th>Name</th>

<th>Shortcut</th>

</tr>

<c:forEach var=*"tempSubject"* items=*"*${SUBJECTS\_LIST }*"*>

<tr>

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

<td>${tempSubject.shortcut}</td>

</tr>

</c:forEach>

</table>

</div>

</div>

</div>

</body>

</html>

# **teachers-list.jsp**

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

<!DOCTYPE html>

<html>

<head>

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

<title>List of Teachers</title>

<link type=*"text/css"* rel=*"stylesheet"* href=*"css/style.css"*>

</head>

<body style="background-image: *url('css/background.jpg')*;">

<div id=*"page"*>

<jsp:include page=*"left-list.jsp"* />

<div id=*"wrapper"*>

<div id=*"header"*>

<h3>Teachers</h3>

</div>

</div>

<div id=*"container"*>

<div id=*"content"*>

<table>

<tr>

<th>First Name</th>

<th>Last Name</th>

<th>age</th>

</tr>

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

<tr>

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

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

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

</tr>

</c:forEach>

</table>

</div>

</div>

</div>

</body>

</html>

# **JAVA MODEL CLASSES**

# **Class.java**

**package** com.simplilearn.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.simplilearn.models;

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

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

**private** String fname;

**private** String lname;

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

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

**public** Student(**int** id, String fname, String lname, **int** age, **int** aclass) {

**super**();

**this**.id = id;

**this**.fname = fname;

**this**.lname = lname;

**this**.age = age;

**this**.aclass = aclass;

}

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

**return** id;

}

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

**this**.id = id;

}

**public** String getFname() {

**return** fname;

}

**public** **void** setFname(String fname) {

**this**.fname = fname;

}

**public** String getLname() {

**return** lname;

}

**public** **void** setLname(String lname) {

**this**.lname = lname;

}

**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 + ", fname=" + fname + ", lname=" + lname + ", age=" + age + ", aclass=" + aclass

+ "]";

}

}

# **Subject.java**

**package** com.simplilearn.models;

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

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

**private** String name;

**private** String shortcut;

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

**super**();

**this**.id = id;

**this**.name = name;

**this**.shortcut = shortcut;

}

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

**return** id;

}

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

**this**.id = id;

}

**public** String getShortcut() {

**return** shortcut;

}

**public** **void** setShortcut(String shortcut) {

**this**.shortcut = shortcut;

}

**public** String getName() {

**return** name;

}

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

**this**.name = name;

}

}

# **Teacher.java**

**package** com.simplilearn.models;

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

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

**private** String fname;

**private** String lname;

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

**public** Teacher(**int** id, String fname, String lname, **int** age) {

**super**();

**this**.id = id;

**this**.fname = fname;

**this**.lname = lname;

**this**.age = age;

}

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

**return** id;

}

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

**this**.id = id;

}

**public** String getFname() {

**return** fname;

}

**public** **void** setFname(String fname) {

**this**.fname = fname;

}

**public** String getLname() {

**return** lname;

}

**public** **void** setLname(String lname) {

**this**.lname = lname;

}

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

**return** age;

}

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

**this**.age = age;

}

}

# **JAVA ADMIN CLASSES**

# **AdminControllerServlet.java**

package com.simplilearn.admin;

import java.io.IOException;

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.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.sql.DataSource;

import com.simplilearn.models.Student;

import com.simplilearn.models.Subject;

import com.simplilearn.models.Teacher;

import com.simplilearn.models.Class;

/\*\*

\* Servlet implementation class AdminControllerServlet

\*/

@WebServlet("/AdminControllerServlet")

public class AdminControllerServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

private DbRetrieve dbRetrieve;

@Resource(name = "jdbc\_database")

private DataSource datasource;

@Override

public void init() throws ServletException {

super.init();

// create instance of db util, to pass in conn pool object

try {

dbRetrieve = new DbRetrieve(datasource);

} catch (Exception e) {

throw new ServletException(e);

}

}

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public AdminControllerServlet() {

super();

// TODO Auto-generated constructor stub

}

@Override

protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {

doGet(req, resp);

}

/\*\*

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

\* response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

// TODO Auto-generated method stub

try {

// read the "command" parameter

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

if (command == null) {

command = "CLASSES";

}

// if no cookeies

if (!getCookies(request, response) && (!command.equals("LOGIN"))) {

response.sendRedirect("/Administrative-Portal/login.jsp");

}

else {

// if there is no command, how to handle

// route the data to the appropriate method

switch (command) {

case "STUDENTS":

studentsList(request, response);

break;

case "TEACHERS":

teachersList(request, response);

break;

case "SUBJECTS":

subjectList(request, response);

break;

case "CLASSES":

classestList(request, response);

break;

case "ST\_LIST":

classStudentsList(request, response);

break;

case "LOGIN":

login(request, response);

break;

default:

classestList(request, response);

}

}

} catch (Exception e) {

throw new ServletException(e);

}

// response.getWriter().append("Served at: ").append(request.getContextPath());

}

private void studentsList(HttpServletRequest request, HttpServletResponse response) throws Exception {

// get students from db util

List<Student> students = dbRetrieve.getStudents();

// add students to the request

request.setAttribute("STUDENT\_LIST", students);

// send it to the jsp view page

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

dispatcher.forward(request, response);

}

private void teachersList(HttpServletRequest request, HttpServletResponse response) throws Exception {

// get students from db util

List<Teacher> teachers = dbRetrieve.getTeachers();

// add students to the request

request.setAttribute("TEACHERS\_LIST", teachers);

// send it to the jSP view page

RequestDispatcher dispatcher = request.getRequestDispatcher("/teachers-list.jsp");

dispatcher.forward(request, response);

}

private void subjectList(HttpServletRequest request, HttpServletResponse response) throws Exception {

// get subjects from db util

List<Subject> subjects = dbRetrieve.getSubjects();

// add subjects to the request

request.setAttribute("SUBJECTS\_LIST", subjects);

// send it to the jSP view page

RequestDispatcher dispatcher = request.getRequestDispatcher("/subjects-list.jsp");

dispatcher.forward(request, response);

}

private void classestList(HttpServletRequest request, HttpServletResponse response) throws Exception {

// get subjects from db util

List<Class> classes = dbRetrieve.getClasses();

// add subjects to the request

request.setAttribute("CLASSES\_LIST", classes);

// send it to the jSP view page

RequestDispatcher dispatcher = request.getRequestDispatcher("/classes-list.jsp");

dispatcher.forward(request, response);

}

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

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

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

if (username.toLowerCase().equals("admin") && password.toLowerCase().equals("admin")) {

Cookie cookie = new Cookie(username, password);

// Setting the maximum age to 1 day

cookie.setMaxAge(86400); // 86400 seconds in a day

// Send the cookie to the client

response.addCookie(cookie);

classestList(request, response);

} else {

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

dispatcher.forward(request, response);

}

}

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

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

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

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

// get subjects from db util

List<Student> students = dbRetrieve.loadClassStudents(classId);

// add subjects to the request

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

request.setAttribute("SECTION", section);

request.setAttribute("SUBJECT", subject);

// send it to the jSP view page

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

dispatcher.forward(request, response);

}

private boolean getCookies(HttpServletRequest request, HttpServletResponse response) throws Exception {

boolean check = false;

Cookie[] cookies = request.getCookies();

// Find the cookie of interest in arrays of cookies

for (Cookie cookie : cookies) {

if (cookie.getName().equals("admin") && cookie.getValue().equals("admin")) {

check = true;

break;

}

}

return check;

}

}

# **DbRetrieve.java**

package com.simplilearn.admin;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.List;

import javax.sql.DataSource;

import com.simplilearn.models.Student;

import com.simplilearn.models.Subject;

import com.simplilearn.models.Teacher;

import com.simplilearn.models.Class;

public class DbRetrieve {

private DataSource dataSource;

public DbRetrieve(DataSource dataSource) {

this.dataSource = dataSource;

}

public List<Student> getStudents() {

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

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = dataSource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM students";

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 firstName = myRs.getString("fname");

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

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

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

// create new student object

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

// add it to the list of students

students.add(tempStudent);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

return students;

}

public List<Teacher> getTeachers() {

List<Teacher> teachers = new ArrayList<>();

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = dataSource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM teachers";

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 firstName = myRs.getString("fname");

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

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

// create new student object

Teacher temp = new Teacher(id, firstName, lastName, age);

// add it to the list of students

teachers.add(temp);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

return teachers;

}

public List<Subject> getSubjects() {

List<Subject> subjects = new ArrayList<>();

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = dataSource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM subjects";

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");

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

// create new student object

Subject temp = new Subject(id, name,shortcut);

// add it to the list of students

subjects.add(temp);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

return subjects;

}

public List<Class> getClasses() {

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

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = dataSource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM classes";

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.getFname() + " " + tempTeacher.getLname();

// 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 (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

return classes;

}

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("fname");

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

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, myRs);

}

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");

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

theSubject = new Subject(id, name,shortcut);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

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.getFname() + " " + tempTeacher.getLname();

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

return theClass;

}

public List<Student> loadClassStudents(int classId) {

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

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

// get a connection

myConn = dataSource.getConnection();

// create sql stmt

String sql = "SELECT \* FROM students WHERE class = " + 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");

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

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

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

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

// create new student object

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

students.add(tempStudent);

}

} catch (Exception e) {

// TODO: handle exception

} finally {

// close JDBC objects

close(myConn, myStmt, myRs);

}

return students;

}

private void close(Connection myConn, Statement myStmt, ResultSet myRs) {

try {

if (myRs != null) {

myRs.close();

}

if (myStmt != null) {

myStmt.close();

}

if (myConn != null) {

myConn.close();

}

} catch (Exception e) {

e.printStackTrace();

}

}

}

# **TestServlet.java**

package com.simplilearn.admin;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.annotation.Resource;

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.sql.DataSource;

/\*\*

\* Servlet implementation class TestServlet

\*/

@WebServlet("/TestServlet")

public class TestServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

//Define datasource/connection pool for reference

@Resource(name="jdbc\_database")

private DataSource dataSource;

/\*\*

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

\*/

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

// Set the printwriter

PrintWriter out = response.getWriter();

response.setContentType("text/plain");

// establish connection to the DB

Connection myConn = null;

Statement myStmt = null;

ResultSet myRs = null;

try {

myConn = dataSource.getConnection();

//create a sql statement

String sql = "select \* from students";

myStmt = myConn.createStatement();

//execute the sql statement

myRs = myStmt.executeQuery(sql);

//process the resultset

while(myRs.next()) {

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

out.println(fname);

}

}

catch(Exception e) {

e.printStackTrace();

}

}

}

# **CSS FILES**

# **add-student-style.css**

**form** {

margin-top: *10px*;

}

**label** {

font-size: *16px*;

width: *100px*;

display: *block*;

text-align: *right*;

margin-right: *10px*;

margin-top: *8px*;

margin-bottom: *8px*;

}

**input** {

width: *250px*;

border: *1px* *solid* *#666*;

border-radius: *5px*;

padding: *4px*;

font-size: *16px*;

}

*.save* {

font-weight: *bold*;

width: *130px*;

padding: *5px* *10px*;

margin-top: *30px*;

background: *#cccccc*;

}

**table** {

border-style:*none*;

width:*50%*;

}

**tr***:nth-child*(*even*) {background: *#FFFFFF*}

**tr***:nth-child*(*odd*) {background: *#FFFFFF*}

**tr** {

border-style:*none*;

text-align:*left*;

}

# **login.css**

**Body** {

font-family: *Calibri,* *Helvetica,* *sans-serif*;

background-color: *pink*;

}

**button** {

justify-content: *center*;

background-color: *#4CAF50*;

width: *100%*;

color: *white*;

padding: *15px*;

margin: *10px* *0px*;

border: *none*;

cursor: *pointer*;

}

**form** {

border: *1.4px* *solid* *black*;

width: *45%*;

margin: *0* *auto*;

}

**input**[type=text]**,** **input**[type=password] {

justify-content: *center*;

width: *100%*;

margin: *8px* *0*;

padding: *12px* *20px*;

display: *inline-block*;

border: *2px* *solid* *green*;

box-sizing: *border-box*;

}

**button***:hover* {

opacity: *0.7*;

}

*.container* {

justify-content: *center*;

padding: *15px*;

background-color: *#FFF8DC*;

}

# **style.css**

**html,** **body**{

padding:*0px*;

font-family:*Verdana,* *Arial,* *Helvetica,* *sans-serif*;

margin-left: *103px*; /\* Same as the width of the sidenav \*/

}

**table** {

border-collapse:*collapse*;

border:*1px* *solid* *gray*;

font-family: *Tahoma,Verdana,Segoe,sans-serif*;

width:*72%*;

}

**th** {

border-bottom:*1px* *solid* *gray*;

background:*none* *repeat* *scroll* *0* *0* *#0775d3*;

padding:*10px*;

color: *#FFFFFF*;

}

**tr** {

border-top:*1px* *solid* *gray*;

text-align:*center*;

}

**tr***:nth-child*(*even*) {background: *#FFFFFF*}

**tr***:nth-child*(*odd*) {background: *#BBBBBB*}

*#wrapper* {width: *100%*; text-align: *center*; }

*#header* {width: *72%*; background: *#0775d3*; margin-top: *0px*; padding:*5px* *0px* *15px* *0px*;}

*#header* **h3** {width: *100%*; margin:*auto*; color: *#FFFFFF*;}

*#container* {width: *100%*; margin:*auto*}

*#container* **h3** {color: *#000*;}

*#container* *#content* {margin-top: *20px*;}

*.add-student-button* {

border: *1px* *solid* *#666*;

border-radius: *5px*;

padding: *4px*;

font-size: *12px*;

font-weight: *bold*;

width: *120px*;

padding: *5px* *10px*;

margin-bottom: *15px*;

background: *#cccccc*;

}

*.sidenav* {

height: *100%*;

width: *200px*;

border-color: *#FFFFFF*;

position: *fixed*;

z-index: *1*;

top: *0*;

left: *0*;

background-color: *#000080*;

overflow-x: *hidden*;

padding-top: *20px*;

}

*.sidenav* **a** {

padding: *6px* *6px* *6px* *32px*;

text-decoration: *none*;

font-size: *25px*;

color: *white*;

display: *block*;

}

*.sidenav* **a***:hover* {

color: *blue*;

}

@media screen and (max-height: 450px) {

*.sidenav* {padding-top: *15px*;}

*.sidenav* **a** {font-size: *18px*;}

}

*#page*{

height: *100%*;

}

*#logo*{

font-family: *'Trebuchet MS',* *sans-serif*;

text-align: *center*;

color: *white*;

}

*.bar-item*{

border-color: *#FFFFFF*;

border-width: *3px*;

border-bottom: *.5px* *solid* *rgba(255,* *255,* *255,* *0.247)*;

}