package com.bean;

import java.util.List;

import javax.persistence.CascadeType;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.OneToMany;

@Entity

public class Class {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private int classId;

private String name;

private int hours;

private int s\_id;

@OneToMany(mappedBy = "c\_id", cascade = CascadeType.ALL)

private List<Student> listOfStudent;

public int getS\_id() {

return s\_id;

}

public void setS\_id(int s\_id) {

this.s\_id = s\_id;

}

public int getClassId() {

return classId;

}

public void setClassId(int classId) {

this.classId = classId;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getHours() {

return hours;

}

public void setHours(int hours) {

this.hours = hours;

}

public List<Student> getListOfStudent() {

return listOfStudent;

}

public void setListOfStudent(List<Student> listOfStudent) {

this.listOfStudent = listOfStudent;

}

}

package com.controller;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

import java.util.regex.Matcher;

import java.util.regex.Pattern;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

import com.bean.Subject;

import com.service.SubjectService;

/\*\*

\* Servlet implementation class AddSubjectController

\*/

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 {

// TODO Auto-generated method stub

HttpSession hs = request.getSession();

SubjectService ss = new SubjectService();

List<Subject> listOfSubjects = ss.getAllSubjects();

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

hs.setAttribute("subList", listOfSubjects);

rd.forward(request, response);

}

/\*\*

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

\* response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

String name = request.getParameter("subName");

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

HttpSession hs = request.getSession();

RequestDispatcher rd2 = request.getRequestDispatcher("AddSubject.jsp");

Pattern p = Pattern.compile("[a-zA-Z\\s']+");

Matcher m1 = p.matcher(name);

if (name.equals("") || credit == 0 || name.length()< 2 || !m1.matches()) {

String ver ="Please enter the correct details";

hs.setAttribute("result", ver);

rd2.include(request, response);

} else {

Subject sub = new Subject();

sub.setName(name);

sub.setCredit(credit);

SubjectService ss = new SubjectService();

String result = ss.saveSubject(sub);

hs.setAttribute("result", result);

rd2.include(request, response);

}

hs.invalidate();

}

}

package com.dao;

import java.util.List;

import org.hibernate.Query;

import org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.bean.Class;

import com.bean.Teacher;

import com.resource.SessionBuilderResource;

public class ClassDao {

public int saveClass(Class c) {

try {

SessionFactory sf = SessionBuilderResource.getSessionFactoryReference();

Session session = sf .openSession();

Transaction trs = session.getTransaction();

trs.begin();

session.save(c);

trs.commit();

session.close();

return 1;

} catch (Exception e) {

System.out.println(e);

return 0;

}

}

public List<Class> getAllClasses(){

try {

SessionFactory sf = SessionBuilderResource.getSessionFactoryReference();

Session session = sf.openSession();

Query<Class> qry = session.createQuery("select c from Class c");

List<Class> listOfClasses = qry.list();

return listOfClasses;

} catch (Exception e) {

System.out.println(e);

return null;

}

}

public Class getClassById(int id) {

try {

SessionFactory sf = SessionBuilderResource.getSessionFactoryReference();

Session session = sf.openSession();

Class c = session.get(Class.class, id);

return c;

} catch (Exception e) {

System.out.println(e);

return null;

}

}

}

package com.service;

import java.util.List;

import com.bean.Class;

import com.dao.ClassDao;

public class ClassService {

ClassDao cd = new ClassDao();

public String saveClass(Class c) {

if (cd.saveClass(c) > 0) {

return "Class Saved";

} else {

return "Class Not Saved";

}

}

public List<Class>getAllClasses(){

return cd.getAllClasses();

}

public Class getClassById(int id) {

return cd.getClassById(id);

}

}

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

pageEncoding="UTF-8"%>

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

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Add new Class

</title>

</head>

<body>

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

<%

Object result = session.getAttribute("result");

%>

<div class="container text-center">

<h3>Add New Class</h3>

<form action="ClassServlet" method="post">

<div class="mb-3">

<label>Class Name</label>

<input type="text" name="cname">

</div>

<div class="mb-3">

<label>Hours</label>

<input type="number" name="hours">

</div>

<div class="mb-3">

<label>Subject ID</label>

<input type="number" name="s\_id">

</div>

<input type="submit" value="Add Subject" class="btn btn-primary" id="btnAddSubject">

</form>

</div>

<br>

<p class="text-center"><**core:out** value="${result }"></**core:out**></p>

</body>

</html>

<%@**page** import="com.bean.Class"%>

<%@**page** import="java.util.List"%>

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

pageEncoding="UTF-8"%>

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

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Class List</title>

<link rel="stylesheet" href="./css/Style.css">

</head>

<body>

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

<div class="container text-center">

<h2>List Of Classes</h2>

<table class="table table-striped table-dark">

<tr>

<th>Class ID</th>

<th>Class Name</th>

<th>Class Duration</th>

<th>Subject ID</th>

</tr>

<**core:forEach** items="${sessionScope.list}" var="l">

<tr>

<td><**core:out** value="${l.classId }"></**core:out**></td>

<td><**core:out** value="${l.name }"></**core:out**></td>

<td><**core:out** value="${l.hours }"></**core:out**></td>

<td><**core:out** value="${l.s\_id }"></**core:out**></td>

</tr>

</**core:forEach**>

</table>

<form action="ClassReportController">

<input class="btn btn-primary" type="submit" value="View Class Report">

<br>

<br>

<input type="number" name="c\_id">

</form>

<**core:out** value="${result }"></**core:out**>

</div>

</body>

</html>