**SOURCE CODE FOR PHASE2 PROJECT**

**add-classes.html**

<html>

<head>

<title>Add Classes to portal</title>

</head>

<body>

<h1>Add Classes to portal</h1>

<form action="add-classes" method="post">

Add Class Name:<input name="classname" id="classname" type="text"><br>

Add Class Section:<input name="section" id="section" type="text"><br>

<input type="submit" value="AddClass"> <input type="submit"

formaction="list-classes" value="ListClass">

</form>

<h3>

<a href="admin.jsp">Back </a>

</h3>

<h3 style="text-align: right">

<a href="logout.jsp ">Logout </a>

</h3>

</body>

<html>

**add-student.html**

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Add Student Form</title>

<title>Student management System</title>

</head>

<body>

<h1 style="align: text-center">Add Student</h1>

<form action="add-student" method="post">

<fieldset>

Student Name : <input name="name" id="name" type="text"> <br>

Student Roll : <input name="rollno" id="rollno" type="text">

<br> Student gender :<input name="gender" id="gender"

type="text"><br> Student Class :<input name="cl"

id="cl" type="text"> <br> <input type="submit"

value="AddStudent"> <input type="submit"

formaction="list-students" value="List Students"> <br>

<br>

</fieldset>

</form>

<h3>

<a href="admin.jsp">Back </a>

</h3>

<h3 style="text-align: right">

<a href="logout.jsp ">Logout </a>

</h3>

</body>

</html>

**add-subject.html**

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Add Student Form</title>

<title>Student management System</title>

</head>

<body>

<h1 style="align: text-center">Add Student</h1>

<form action="add-student" method="post">

<fieldset>

Student Name : <input name="name" id="name" type="text"> <br>

Student Roll : <input name="rollno" id="rollno" type="text">

<br> Student gender :<input name="gender" id="gender"

type="text"><br> Student Class :<input name="cl"

id="cl" type="text"> <br> <input type="submit"

value="AddStudent"> <input type="submit"

formaction="list-students" value="List Students"> <br>

<br>

</fieldset>

</form>

<h3>

<a href="admin.jsp">Back </a>

</h3>

<h3 style="text-align: right">

<a href="logout.jsp ">Logout </a>

</h3>

</body>

</html>

**add-teacher.html**

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Add Teacher Form</title>

</head>

<body>

<h1>Add Teacher</h1>

<br>

<br>

<form action="add-teacher" method="post">

<fieldset>

Teacher Name :<input name="name" id="name" type="text"> <br>

Teacher Email :<input name="email" id="email" type="text"> <br>

Teacher Subject <input name="subject" id="subject" type="text"><br>

<input type="submit" value="Add Teacher"> <input

type="submit" formaction="list-teacher" value="ListTeacher"><br>

<br>

</fieldset>

</form>

<h3>

<a href="admin.jsp">Back </a>

</h3>

<h3 style="text-align: right">

<a href="logout.jsp ">Logout </a>

</h3>

</body>

</html>

**admin.jsp**

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

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Online management System</title>

<meta charset="utf-8">

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

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">

<script

src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<h1 class="text-center">Online management System</h1>

<h3 class="text-center">Admin Access only</h3>

<nav>

<br> <br> <br> <br> &nbsp;&nbsp; <a

href="add-student "><button>Add Student</button></a>|| <a

href="add-teacher "><button>Add Teacher</button> </a>|| <a

href="add-classes "><button>Add Classes</button> </a>|| <a

href="add-subject "><button>Add Subjects</button> </a>|| <a

href="report.jsp"><button>Report Card</button></a>

<h3 style="text-align: right">

<a href="logout.jsp "><button>Logout</button>&nbsp;&nbsp; </a>

</h3>

<br>

<br>

</nav>

<br>

<br>

</body>

</html>

**login.html**

<html>

<head>

<title>The Login Application</title>

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

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">

<script

src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<br>

<h1 class="text-center">

<span>Admin Login-Form</span>

</h1>

<div class="row justify-content-center align-items-center"

style="height: 100vh">

<div class="col-4">

<div class="card">

<div class="card-body">

<form action="login" method="post" class="text-center">

<fieldset>

AdminName: <input type="text" name="UserName" id="UserName">

<br>

<br> AdminPasssword:<input type="password"

name="UserPassword" id="UserPassword"><br>

<br>

<button type="submit" class="btn btn-primary" value=AdminLogin>Login</button>

</fieldset>

</form>

||<a href="logout.jsp ">Logout </a>||

</div>

</div>

</div>

</div>

</body>

</html>

**report.html**

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

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Complete report</title>

<meta charset="utf-8">

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

<link rel="stylesheet"

href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">

<script

src="https://cdn.jsdelivr.net/npm/jquery@3.6.0/dist/jquery.slim.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<br>

<br>

<br>

<br>

<h1 class="text-center">

<button>Complete report</button>

</h1>

<nav>

<br> <br> <br> <br> <a href="list-students"><button>List

Students</button> </a>|| <a href="list-teacher "><button>List

Teachers</button> </a>|| <a href="list-classes "><button>List

Classes</button> </a>|| <a href="list-subjects "><button>List

Subjects</button> </a>

<h3 style="text-align: right">

<a href="logout.jsp "><button>Logout</button> &nbsp;&nbsp; </a>

</h3>

<br>

<br>

</nav>

<br>

<br>

</body>

</html>

**AddClass.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.model.Classes;

import com.util.HibernateSessionUtil;

@WebServlet("/add-classes")

public class AddClass extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

//request.getRequestDispatcher("index.jsp").include(request, response);

request.getRequestDispatcher("add-classes.html").include(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// fetch data from form

String ClassName = request.getParameter("classname");

String ClassRoom = request.getParameter("roomno");

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

;

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. create a product object

Classes cl = new Classes(ClassName,ClassSection);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(cl);

// 6. commit transaction

tx.commit();

if(session != null ) {

out.print("<h3 style='color:green'> Class is Added sucessfully ! </h3>");

}

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

}

**AddStudent.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.model.Student;

import com.util.HibernateSessionUtil;

@WebServlet("/add-student")

public class AddStudent extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("add-student.html").include(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// fetch data from form

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

String Rollno = request.getParameter("rollno");

String Cl=request.getParameter("cl");

String Gender=request.getParameter("gender");

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. create a product object

Student product = new Student(Name, Rollno,Cl,Gender);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(product);

// 6. commit transaction

tx.commit();

if(session != null ) {

out.print("<h3 style='color:green'> Student is Added sucessfully ! </h3>");

}

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

}

**AddSubjects.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.model.Subjects;

import com.util.HibernateSessionUtil;

@WebServlet("/add-subject")

public class AddSubjects extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

//request.getRequestDispatcher("index.jsp").include(request, response);

request.getRequestDispatcher("add-subject.html").include(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// fetch data from form

String SubjectName = request.getParameter("subname");

String SubjectCode = request.getParameter("subcode");

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. create a product object

Subjects subj = new Subjects(SubjectName,SubjectCode);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(subj);

// 6. commit transaction

tx.commit();

if(session != null ) {

out.print("<h3 style='color:green'> Subject is Added sucessfully ! </h3>");

}

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

}

**AddTeacher.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import com.model.Teacher;

import com.util.HibernateSessionUtil;

@WebServlet("/add-teacher")

public class AddTeacher extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

//request.getRequestDispatcher("index.jsp").include(request, response);

request.getRequestDispatcher("add-teacher.html").include(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

// fetch data from form

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

String techerEmail=request.getParameter("email");

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

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. create a product object

Teacher product = new Teacher(TeacherName, techerEmail,teachersubject);

// 4. begin transaction

Transaction tx = session.beginTransaction();

// 5. save product

session.save(product);

// 6. commit transaction

tx.commit();

if(session != null ) {

out.print("<h3 style='color:green'> Teacher is created sucessfully ! </h3>");

}

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

}

**InitializeSession.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.util.HibernateSessionUtil;

@WebServlet("/init-session")

public class InitializeSession extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getRequestDispatcher("index.jsp").include(request, response);

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

if(session != null ) {

System.out.println();

System.out.println();

out.print("<h3 style='color:green'> <center>Conncetion created sucessfully ! </center></h3>");

}

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Conncetion is failed ! </h3>");

}

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

}

**ListClasses.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.model.Classes;

import com.util.HibernateSessionUtil;

@WebServlet("/list-classes")

public class ListClasses extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

//request.getRequestDispatcher("index.jsp").include(request, response);

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read Customers

List<Classes> cls = session.createQuery("from Classes").list();

//show data as table.

out.print("<h1 style='align-center'> Classess List :- </h1>");

out.print("<table >");

out.print("<tr>");

out.print("<th> Class Id</th>");

out.print("<th> ClassName</th>");

out.print("<th> ClassSection</th>");

out.print("</tr>");

for(Classes p : cls) {

out.print("<tr>");

out.print("<td>"+p.getId()+"</td>");

out.print("<td>"+p.getClassname()+"</td>");

out.print("<td>"+p.getSection()+"</td>");

out.print("</tr>");

}

out.print("</table><br><br>");

out.print("<h3><a href='add-classes'>Back </a></h3>");

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

}

**ListStudents.java**

package com.web;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.List;

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import com.model.Student;

import com.util.HibernateSessionUtil;

@WebServlet("/list-students")

public class ListStudents extends HttpServlet{

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out = response.getWriter();

//request.getRequestDispatcher("index.jsp").include(request, response);

try {

// 1. build hibernate session factory

SessionFactory factory = HibernateSessionUtil.buildSessionFactory();

// 2. create session object

Session session = factory.openSession();

// 3. read Customers

List<Student> students = session.createQuery("from Student").list();

//show data as table.

out.print("<h1 style='align-center' color='green'> Students List :- </h1>");

out.print("<table >");

out.print("<tr>");

out.print("<th> Student Id</th>");

out.print("<th> Student Name</th>");

out.print("<th> Student Rollno</th>");

out.print("<th> Student Class </th>");

out.print("<th> Student Gender </th>");

out.print("</tr>");

for(Student p : students) {

out.print("<tr>");

out.print("<td>"+p.getId()+"</td>");

out.print("<td>"+p.getName()+"</td>");

out.print("<td>"+p.getRollno()+"</td>");

out.print("<td>"+p.getCl()+"</td>");

out.print("<td>"+p.getGender()+"</td>");

out.print("</tr>");

}

out.print("</table><br><br>");

out.print("<h3><a href='add-student'>Back </a></h3>");

// 3. close session

session.close();

} catch (Exception e) {

out.print("<h3 style='color:red'> Hibernate session is failed ! </h3>");

}

}

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

}

**Classes.java**

package com.model;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="classes\_data")

public class Classes {

// properties

@Id

@GeneratedValue(strategy=GenerationType.AUTO)

@Column(name="id")

private int id;

@Column(name="classname")

private String classname;

@Column(name="section")

private String section;

public Classes(int id) {

super();

this.id = id;

}

public Classes() {

super();

}

public Classes(String classname, String section) {

super();

this.classname = classname;

this.section = section;

}

public Classes(int id, String classname, String section) {

super();

this.id = id;

this.classname = classname;

this.section = section;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getClassname() {

return classname;

}

public void setClassname(String classname) {

this.classname = classname;

}

public String getSection() {

return section;

}

public void setSection(String section) {

this.section = section;

}

@Override

public String toString() {

return "Classes [id=" + id + ", classname=" + classname + ", section=" + section + "]";

}

}

**Student.java**

package com.model;

import java.util.Date;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="student\_data")

public class Student {

// properties

@Id

@GeneratedValue(strategy=GenerationType.AUTO)

@Column(name="id")

private int id;

@Column(name="name")

private String name;

@Column(name="rollno")

private String rollno;

@Column(name="cl")

private String cl;

@Column(name="gender")

private String gender;

// constructor

public Student() {}

public Student(int id) {

this.id = id;

}

public Student(String name, String rollno,String cl,String gender) {

super();

this.name = name;

this.rollno = rollno;

this.cl=cl;

this.gender=gender;

}

public Student(int id, String name, String rollno, String ad,String cl) {

super();

this.id = id;

this.name = name;

this.rollno = rollno;

this.cl=cl;

this.gender=gender;

}

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;

}

public String getRollno() {

return rollno;

}

public void setRollno(String rollno) {

this.rollno = rollno;

}

public String getCl() {

return cl;

}

public void setCl(String cl) {

this.cl =cl;

}

public String getGender() {

return gender;

}

public void setCreatedAt(String gender) {

this.gender=gender;

}

@Override

public String toString() {

return "Product [id=" + id + ", name=" + name + ", rollno=" + rollno+ ",class="+ cl + ", Gender="

+ gender+ "]";

}

}

**Subjects.java**

package com.model;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.persistence.Table;

@Entity

@Table(name="subjects\_data")

public class Subjects {

@Id

@GeneratedValue(strategy=GenerationType.AUTO)

@Column(name="id")

private int id;

@Column(name="subname")

private String subname;

@Column(name="subcode")

private String subcode;

public Subjects() {

super();

}

public Subjects(int id) {

super();

this.id = id;

}

public Subjects(String subname, String subcode) {

super();

this.subname = subname;

this.subcode = subcode;

}

public Subjects(int id, String subname, String subcode) {

super();

this.id = id;

this.subname = subname;

this.subcode = subcode;

}

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getSubname() {

return subname;

}

public void setSubname(String subname) {

this.subname = subname;

}

public String getSubcode() {

return subcode;

}

public void setSubcode(String subcode) {

this.subcode = subcode;

}

@Override

public String toString() {

return "Subjects [id=" + id + ", subname=" + subname + ", subcode=" + subcode + "]";

}

}