**WEB PAGES( HTML FILES)**

**1.Enrollstudent.html**

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<h1> STUDENT ENROLLMENT </h1>

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

<pre>

<input type ="text" name="uname" placeholder="Student ID"/>

<input type ="text" name="pass" placeholder="Course ID"/>

<input type ="submit" value="Enrollment student"/>

</pre>

</form>

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

<button type="button" onclick="window.location.href='index.html'">Back</button>

</form>

</body>

</html>

**2.Index.html**

<html>

<head>

<title>Your name here</title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

</head>

<body>

<h1>hello welcome to the Lambton College enrollment system</h1>

<!--<form action ="DemoServlet">

<p> Name: <input type ="text" name ="userName"></p>

<p><input type ="submit" value="hola"></p>

<p>input type ="text" value="hola"></p>

</form>-->

<button type="button" onclick="window.location.href='insertpage.html'">Create new student</button>

<button type="button" onclick="window.location.href='searchstudent.html'">Search Student Records</button>

<button type="button" onclick="window.location.href='enrollstudent.html'">Enroll student</button>

<button type="button" onclick="window.location.href='viewcourses.html'">View Courses</button>

</body>

</html>

**3.Insertpage.html**

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<h1> Create a new student </h1>

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

<pre>

<input type ="text" name="uname" placeholder="name"/>

<input type ="text" name="pass" placeholder="Program Code"/>

<input type ="submit" value="Insert"/>

</pre>

</form>

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

<button type="button" onclick="window.location.href='index.html'">Back</button>

</form>

</body>

</html>

**4.Searchstudent.html**

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<h1> Please enter the student ID </h1>

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

<pre>

<input type ="text" name="studentid" placeholder="student id "/>

<input type ="submit" value="Search"/>

</pre>

</form>

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

<button type="button" onclick="window.location.href='index.html'">Back</button>

</form>

</body>

</html>

**5.Viewcourses.html**

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<h1> Press the button to view courses available </h1>

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

<pre>

<input type ="submit" value="View"/>

</pre>

</form>

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

<button type="button" onclick="window.location.href='index.html'">Back</button>

</form>

</body>

</html>

**JAVA CLASS.**

**1.Courses.java**

package com.mycompany.WebApplication1;

import com.mycompany.WebApplication1.Dbconnection;

import com.mycompany.WebApplication1.login;

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.logging.Level;

import java.util.logging.Logger;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class Courses extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

out.println("<html><body>");

Dbconnection db = new Dbconnection();

Connection con=db.getCon();

Statement stmt1=con.createStatement();

ResultSet rs = stmt1.executeQuery("select \* from classes;");

out.println("<table border=1 width=50% height=50%>");

out.println("<tr><th>CLASS ID</th><th>COURSE NAME</th><th>CLASS DATE TIME</th><th>INSTRUCTOR</th><th>ROOM</th>");

out.println("</form>");

out.println("<form action=\"select\" method=\"post\" >");

out.println("<button type=\"button\" onclick=\"window.location.href='index.html'\">Back</button>");

out.println("</form>");

while (rs.next())

{

int n = rs.getInt("classid");

String nm = rs.getString("coursename");

String s = rs.getString("classdatetime");

String x = rs.getString("instructorid");

String l = rs.getString("roomid");

out.println("<tr><td>" + n + "</td><td>" + nm + "</td><td>"+s+"</td><td>"+ x + "</td><td>"+ l + "</td><td>");

}

out.println("</table>");

out.println("</html></body>");

con.close();

} catch (SQLException ex) {

Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

**2.Dbconnection.java**

package com.mycompany.WebApplication1;

import java.sql.Connection;

import java.sql.DriverManager;

public class Dbconnection {

public static Connection getCon(){

Connection con=null;

try{

Class.forName("org.sqlite.JDBC");

con =DriverManager.getConnection("jdbc:sqlite:C:\\Users\\sebas\\Documents\\NetBeansProjects\\WebApplication1\\CES.db");

System.out.println("Connection Succeded");

return con;

}

catch(Exception e){

System.out.println("Connection Failed"+ e);

return null;

}

}

}

**3.enrollment.java**

package com.mycompany.WebApplication1;

import java.util.\*;

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.logging.Level;

import java.util.logging.Logger;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class enrollment extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

out.println("<html><body>");

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

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

int a=Integer.parseInt(uname);

int b=Integer.parseInt(pass);

Dbconnection db = new Dbconnection();

Connection con=db.getCon();

Statement stmt=con.createStatement();

stmt.executeUpdate("insert into enrollments (studentid,classid) values('"+a+"','"+b+"')");

out.println("Enrollment Sucessfull ");

Statement stmt1=con.createStatement();

ResultSet rs = stmt1.executeQuery("select \* from enrollments where studentid='"+a+"';");

out.println("<table border=1 width=50% height=50%>");

out.println("<tr><th>ENROLLMENT ID</th><th>STUDENT ID</th><th>CLASS ID</th>");

out.println("</form>");

out.println("<form action=\"select\" method=\"post\" >");

out.println("<button type=\"button\" onclick=\"window.location.href='index.html'\">Back</button>");

out.println("</form>");

while (rs.next())

{

int s = rs.getInt("enrollmentid");

int n = rs.getInt("studentid");

int nm = rs.getInt("classid");

out.println("<tr><td>" + s + "</td><td>" + n + "</td><td>"+nm+"</td><td>");

}

out.println("</table>");

out.println("</html></body>");

con.close();

} catch (SQLException ex) {

Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

**4.login.java**

package com.mycompany.WebApplication1;

import java.util.\*;

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.logging.Level;

import java.util.logging.Logger;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class login extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

out.println("<html><body>");

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

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

Dbconnection db = new Dbconnection();

Connection con=db.getCon();

Statement stmt=con.createStatement();

stmt.executeUpdate("insert into students(studentname,programid) values('"+uname+"','"+pass+"')");

out.println("Student created, your information is the following ");

Statement stmt1=con.createStatement();

ResultSet rs = stmt1.executeQuery("select \* from students where studentname='"+uname+"';");

out.println("<table border=1 width=50% height=50%>");

out.println("<tr><th>ID</th><th>NAME</th><th>PROGRAM</th>");

out.println("</form>");

out.println("<form action=\"select\" method=\"post\" >");

out.println("<button type=\"button\" onclick=\"window.location.href='index.html'\">Back</button>");

out.println("</form>");

while (rs.next())

{

int n = rs.getInt("studentid");

String nm = rs.getString("studentname");

String s = rs.getString("programid");

out.println("<tr><td>" + n + "</td><td>" + nm + "</td><td>"+s+"</td><td>");

}

out.println("</table>");

out.println("</html></body>");

con.close();

} catch (SQLException ex) {

Logger.getLogger(login.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

**5.select.java**

package com.mycompany.WebApplication1;

import java.util.\*;

import java.io.IOException;

import java.io.PrintWriter;

import static java.lang.System.out;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class select extends HttpServlet {

/\*\*

\* Processes requests for both HTTP <code>GET</code> and <code>POST</code>

\* methods.

\*

\* @param request servlet request

\* @param response servlet response

\* @throws ServletException if a servlet-specific error occurs

\* @throws IOException if an I/O error occurs

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

out.println("<html><body>");

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

int id=Integer.parseInt(studentid);

Dbconnection db = new Dbconnection();

Connection con=db.getCon();

Statement stmt=con.createStatement();

ResultSet rs = stmt.executeQuery("select \* from students where studentid='"+id+"';");

if(rs.next()== false ){

out.println("ERROR, The student id doesnt exist");

out.println("</form>");

out.println("<form action=\"select\" method=\"post\" >");

out.println("<button type=\"button\" onclick=\"window.location.href='index.html'\">Back</button>");

out.println("</form>");

}

else

{

out.println("<table border=1 width=50% height=50%>");

out.println("<tr><th>ID</th><th>NAME</th><th>PROGRAM</th>");

ResultSet rs1 = stmt.executeQuery("select \* from students where studentid='"+id+"';");

out.println("</form>");

out.println("<form action=\"select\" method=\"post\" >");

out.println("<button type=\"button\" onclick=\"window.location.href='index.html'\">Back</button>");

out.println("</form>");

while (rs1.next())

{

int n = rs1.getInt("studentid");

String nm = rs1.getString("studentname");

String s = rs1.getString("programid");

out.println("<tr><td>" + n + "</td><td>" + nm + "</td><td>"+s+"</td><td>");

}

out.println("</table>");

out.println("</html></body>");

con.close();

}

}

catch (Exception e)

{

out.println("<html><body>");

out.println("error");

out.println("</html></body>");

}

}

}

**CONFIGURATION FILES**

**1.web.xml**

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

<web-app version="3.0" xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd">

<servlet>

<servlet-name>login</servlet-name>

<servlet-class>com.mycompany.WebApplication1.login</servlet-class>

</servlet>

<servlet>

<servlet-name>select</servlet-name>

<servlet-class>com.mycompany.WebApplication1.select</servlet-class>

</servlet>

<servlet>

<servlet-name>enrollment</servlet-name>

<servlet-class>com.mycompany.WebApplication1.enrollment</servlet-class>

</servlet>

<servlet>

<servlet-name>Courses</servlet-name>

<servlet-class>com.mycompany.WebApplication1.Courses</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>login</servlet-name>

<url-pattern>/login</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>select</servlet-name>

<url-pattern>/select</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>enrollment</servlet-name>

<url-pattern>/enrollment</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>Courses</servlet-name>

<url-pattern>/Courses</url-pattern>

</servlet-mapping>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

</welcome-file-list>

</web-app>