**CLASS MANAGEMENT**

**INTRODUCTION**

The aim of the project is to create an interface for students to access various information regarding their class. For example, information like timetable, course plan of their subjects, exam details, and pending submissions.

**DESCRIPTION**

The project is a java program when executed opens an GUI window where 4 buttons are shown

* Timetable
* Submissions
* Course plan
* Exam

When any of the button is clicked, it directs us to another respective window where the respective details need to be entered to view the particular information.

**SOURCE CODE**

CLASS: MAIN CLASS

package class\_management;

import java.awt.\*;

import java.awt.event.\*;

import javax.swing.\*;

class Class implements ActionListener

{

JFrame calFrame = new JFrame("Calculator");

JLabel num1 = new JLabel("CLASS MANAGEMENT");

JButton tt = new JButton("Time Table");

JButton sub = new JButton("Submissions");

JButton cp = new JButton("Course Plan");

JButton exam = new JButton("Exam");

JPanel panel = new JPanel();

Class ()

{

Font f = new Font("Serif",Font.BOLD,24);

calFrame.setSize(650,550);

calFrame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

calFrame.setVisible(true);

panel.setLayout(null);

num1.setBounds(200,50,500,30);

tt.setBounds(200, 200, 250,30);

sub.setBounds(200, 250, 250,30);

cp.setBounds(200,300,250,30);

exam.setBounds(200,350,250,30);

num1.setFont(f);

tt.setFont(f);

sub.setFont(f);

exam.setFont(f);

cp.setFont(f);

panel.add(num1);

panel.add(tt);

panel.add(sub);

panel.add(exam);

panel.add(cp);

calFrame.add(panel);

tt.addActionListener(this);

sub.addActionListener(this);

exam.addActionListener(this);

cp.addActionListener(this);

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==tt)

{

new timetable();

}

else if(e.getSource()==sub)

{

new submissions();

}

else if(e.getSource()==cp)

{

new courseplan();

}

else if(e.getSource()==exam)

{

new exam();

}

}

public static void main(String[] args) {

new Class();

}

}

**CLASS: TIME TABLE**

package class\_management;

import javax.swing.\*;

import java.awt.event.\*;

import class\_management.Class;

import java.awt.\*;

public class timetable implements ItemListener,ActionListener

{

JFrame q=new JFrame("TimeTable");

JPanel p=new JPanel();

JLabel l=new JLabel(" ");

String time[]={"9AM","10AM","11AM","12PM","1PM","2PM","3PM"};

String monday[]={"pp","cg","ds","ao","break","oslab","oslab"};

String tuesday[]={"pp","cg","ds","ao","break","pplab","pplab"};

String wednesday[]={"pp","cg","ds","ao","break","cglab","cglab"};

String thursday[]={"pp","cg","ds","ao","break","oslab","oslab"};

String friday[]={"pp","cg","ds","ao","break","oslab","oslab"};

String saturday[]={"pp","cg","ds","ao","break","No Class","No Class"};

String a[]=new String[7];

JComboBox<String> t = new JComboBox<String>(time);

String room\_no[]={"205","205","205","205","break","205","205"};

String faculty[]={"jame","jack","frost","break","ten","lucy","kim"};

JButton b = new JButton("BACK");

JButton mon = new JButton("MONDAY");

JButton tue = new JButton("TUESDAY");

JButton wed = new JButton("WEDNESDAY");

JButton thurs = new JButton("THURSDAY");

JButton fri = new JButton("FRIDAY");

JButton sat = new JButton("SATURDAY");

TextArea text=new TextArea("",10,30);

public void set(String x[])

{

for(int i=0;i<x.length;i++)

a[i]=x[i];

}

timetable()

{

q.setSize(550,550);

q.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

q.setVisible(true);

mon.setBackground(Color.pink);

tue.setBackground(Color.gray);

wed.setBackground(Color.blue);

thurs.setBackground(Color.yellow);

fri.setBackground(Color.red);

sat.setBackground(Color.white);

Font f = new Font("",Font.PLAIN,20);

text.setFont(f);

p.add(mon);

p.add(tue);

p.add(wed);

p.add(thurs);

p.add(fri);

p.add(sat);

p.add(l);

p.add(t);

p.add(text);

p.add(b);

q.add(p);

t.addItemListener(this);

b.addActionListener(this);

mon.addActionListener(this);

tue.addActionListener(this);

wed.addActionListener(this);

thurs.addActionListener(this);

fri.addActionListener(this);

sat.addActionListener(this);

}

public void itemStateChanged(ItemEvent e) {

if(e.getSource()==t)

{

if(t.getSelectedItem()=="9AM")

text.setText("Period: \t"+a[0]+"\nRoom No:\t"+room\_no[0]+"\nFaculty: \t"+faculty[0]);

if(t.getSelectedItem()=="10AM")

text.setText("Period: \t"+a[1]+"\nRoom No:\t"+room\_no[1]+"\nFaculty: \t"+faculty[1]);

if(t.getSelectedItem()=="12PM")

text.setText("Period: \t"+a[3]+"\nRoom No:\t"+room\_no[2]+"\nFaculty: \t"+faculty[2]);

if(t.getSelectedItem()=="1PM")

text.setText("Period: \t"+a[4]+"\nRoom No:\t"+room\_no[4]+"\nFaculty: \t"+faculty[4]);

if(t.getSelectedItem()=="2PM")

text.setText("Period: \t"+a[5]+"\nRoom No:\t"+room\_no[5]+"\nFaculty: \t"+faculty[5]);

if(t.getSelectedItem()=="3PM")

text.setText("Period: \t"+a[6]+"\nRoom No:\t"+room\_no[6]+"\nFaculty: \t"+faculty[6]);

if(t.getSelectedItem()=="11AM")

text.setText("Period: \t"+a[2]+"\nRoom No:\t"+room\_no[2]+"\nFaculty: \t"+faculty[2]);

}

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==b)

new Class();

if(e.getSource()==mon)

{

this.set(monday);

p.setBackground(Color.pink);

}

if(e.getSource()==tue)

{

this.set(tuesday);

p.setBackground(Color.gray);

}

if(e.getSource()==wed)

{

this.set(wednesday);

p.setBackground(Color.blue);

}

if(e.getSource()==thurs)

{

this.set(thursday);

p.setBackground(Color.yellow);

}

if(e.getSource()==fri)

{

this.set(friday);

p.setBackground(Color.red);

}

if(e.getSource()==sat)

{

this.set(saturday);

p.setBackground(Color.white);

}

}

}

**CLASS: SUBMISSIONS**

package class\_management;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

public class submissions implements ItemListener,ActionListener

{

JFrame q=new JFrame("Submissions");

JPanel p=new JPanel();

JComboBox<String> jcb = new JComboBox<String>();

JLabel a=new JLabel("");

String maths ="Topic:\t\t Rearsch report paper \nDue Date:\t16.09.2019\nDay:\t\t Monday";

String pp="Topic:\t\t CIA III Component - project\nDue Date:\t13.09.2019\nDay:\t\t Friday";

String cg="Topic:\t\t CIA III Component - project\nDue Date:\t16.09.2019\nDay:\t\t Monday";

String ds="Topic:\t\t CIA III Component - assignment\nDue Date:\t17.09.2019\nDay:\t\t Tuesday";

JButton b = new JButton("BACK");

TextArea text=new TextArea("",10,30);

submissions()

{

q.setSize(550,550);

q.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

q.setVisible(true);

jcb.addItem("SELECT");

jcb.addItem("MATHS");

jcb.addItem("PROGRAMING PARADIGM");

jcb.addItem("COMPUTER GRAPHICS");

jcb.addItem("DIGITAL SYSTEMS");

Font f = new Font("",Font.PLAIN,16);

text.setFont(f);

p.add(jcb);

p.add(a);

p.add(text);

p.add(b);

q.add(p);

jcb.addItemListener(this);

b.addActionListener(this);

}

public void itemStateChanged(ItemEvent e) {

if(e.getSource()==jcb)

{

if(jcb.getSelectedItem()=="MATHS")

text.setText(maths);

if(jcb.getSelectedItem()=="PROGRAMING PARADIGM")

text.setText(pp);

if(jcb.getSelectedItem()=="COMPUTER GRAPHICS")

text.setText(cg);

if(jcb.getSelectedItem()=="DIGITAL SYSTEMS")

text.setText(ds);

}

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==b)

new Class();

}

}

**CLASS: EXAM**

package class\_management;

import javax.swing.\*;

import java.awt.event.\*;

import class\_management.Class;

import java.awt.\*;

public class exam implements ItemListener,ActionListener

{

JFrame q=new JFrame("EXAM");

JPanel p=new JPanel();

JComboBox<String> ex = new JComboBox<String>();

JLabel a=new JLabel("");

JButton b = new JButton("BACK");

TextArea text=new TextArea("",10,30);

exam()

{

q.setSize(550,550);

q.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

q.setVisible(true);

ex.addItem("SELECT");

ex.addItem("MID SEM");

ex.addItem("END SEM");

Font f = new Font("",Font.PLAIN,16);

text.setFont(f);

p.add(ex);

p.add(a);

p.add(text);

p.add(b);

q.add(p);

ex.addItemListener(this);

b.addActionListener(this);

}

public void itemStateChanged(ItemEvent e) {

if(e.getSource()==ex)

{

if(ex.getSelectedItem()=="END SEM")

{

text.setText("SUBJECT \tDATE\t\t\tTIME\nMATHS\t09.10.19\t\t9:30AM\nOS\t\t11.10.19\t\t9:30AM\nPP\t\t14.10.19\t\t9:30AM\nCOA\t\t16.10.19\t\t9:30AM\nGRAPHICS\t18.10.19\t\t9:30AM\nDS\t\t21.10.19\t\t9:30AM\n");

}

else

{

text.setText("EXAM COMPLETED!");

}

}

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==b)

new Class();

}

}

**CLASS: COURSE PLAN**

package class\_management;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

public class courseplan implements ItemListener,ActionListener

{

JFrame q=new JFrame("COURSE PLAN");

JPanel p=new JPanel();

JComboBox<String> jcb = new JComboBox<String>();

JLabel a=new JLabel("");

String maths ="Completed:UNIT 1,UNIT 2,UNIT 3\nCurrent:unit 4\nPending: UNIT 5";

String pp="Completed:UNIT 1,UNIT 2,UNIT 3\nCurrent:unit 4\nPending: UNIT 5";

String cg="Completed:UNIT 1,UNIT 2\nCurrent:UNIT 3\nPending: UNIT 3,UNIT 5";

String ds="Completed:UNIT 1,UNIT 2,UNIT 3\nCurrent:unit 4\nPending: UNIT 5";

JButton b = new JButton("BACK");

TextArea text=new TextArea("",10,30);

courseplan()

{

q.setSize(550,550);

q.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

q.setVisible(true);

jcb.addItem("SELECT");

jcb.addItem("MATHS");

jcb.addItem("PROGRAMING PARADIGM");

jcb.addItem("COMPUTER GRAPHICS");

jcb.addItem("DIGITAL SYSTEMS");

Font f = new Font("",Font.PLAIN,16);

text.setFont(f);

p.add(jcb);

p.add(a);

p.add(text);

p.add(b);

q.add(p);

jcb.addItemListener(this);

b.addActionListener(this);

}

public void itemStateChanged(ItemEvent e) {

if(e.getSource()==jcb)

{

if(jcb.getSelectedItem()=="MATHS")

text.setText(maths);

if(jcb.getSelectedItem()=="PROGRAMING PARADIGM")

text.setText(pp);

if(jcb.getSelectedItem()=="COMPUTER GRAPHICS")

text.setText(cg);

if(jcb.getSelectedItem()=="DIGITAL SYSTEMS")

text.setText(ds);

}

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==b)

new Class();

}

}