import java.awt.Color;

import java.awt.Font;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import javax.swing.ImageIcon;

import javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JPanel;

import javax.swing.JTextArea;

import javax.swing.JTextField;

import JAVA\_CHROME\_DRIVER.\*;

import java.util.ArrayList;

class GUI\_TrainSchedule implements ActionListener

{

JFrame jf;

JLabel jl1,jl2,jl3;

JTextArea jtfb;

JTextField jtf;

JButton b1,b2;

String trainnum;

GUI\_TrainSchedule()

{

JButton jb1 = new JButton();

jb1.setBounds(18,8,380,120);

jb1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\trainschedule.gif"));

JPanel jp1 = new JPanel();

jp1.setBackground(Color.LIGHT\_GRAY);

jp1.setBounds(0,0,440,580);

jf = new JFrame();

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

jf.setSize(440,580);

jf.setLayout(null);

jf.setVisible(true);

jl1= new JLabel("WELCOME TO ");

jl1.setBounds(11,0,280,40);

jl1.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2 = new JLabel("SCHEDULE PORTAL");

jl2.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2.setBounds(21,28,380,80);

b1=new JButton();

b1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\chat1.gif"));

b1.setBorderPainted(false); //to set whether the border of component to be displayed or not

b1.setBounds(11,144,78,72);

b1.addActionListener(this);

jtfb = new JTextArea();

jtfb.setBackground(Color.WHITE);

jtfb.setBounds(100,144,280,78);

jtfb.setFont(new Font("Calibri",Font.ITALIC,18));

jtfb.setEditable(false);

jtfb.setText("Enter Train Number ");

jl3= new JLabel("SEND");

jl3.setFont(new Font("Calibri",Font.BOLD,21));

b2 =new JButton();

b2.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\Submit\_button.png"));

b2.addActionListener(this);

jl3.setBounds(11,480,80,40);

jtf=new JTextField();

jtf.setBounds(72,480,294,40);

jtf.setBackground(Color.WHITE);

b2.setBounds(374,480,40,40);

// b2.setBorderPainted(false);

jf.getContentPane().add(jtfb);

jf.getContentPane().add(jtf);

jf.getContentPane().add(jl1);

jf.getContentPane().add(jl2);

jf.getContentPane().add(jl3);

jf.getContentPane().add(b1);

jf.getContentPane().add(b2);

jf.getContentPane().add(jp1);

jf.getContentPane().add(jb1);

jf.setVisible(true);

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==b2)

{

trainnum=jtf.getText();

if(trainnum.length()<4)

{

JOptionPane.showMessageDialog(jf,"Enter Valid Train Number");

}

else

{

try

{

Open\_Chrome.trainSchedule(trainnum);

jf.dispose();

new GUI\_MAIN();

}

catch(Exception e12)

{

jtf.setText("Please check Internet Connectivity");

};

}

}

}

}

class GUI\_PNR implements ActionListener

{

JFrame jf;

JLabel jl1,jl2,jl3;

JTextArea jtfb;

JTextField jtf;

JButton b1,b2;

String pnr;

GUI\_PNR()

{

JButton jb1 =new JButton();

jb1.setBounds(18,8,380,120);

jb1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\pnre.gif"));

JPanel jp1 =new JPanel();

jp1.setBackground(Color.LIGHT\_GRAY);

jp1.setBounds(0,0,440,580);

jf = new JFrame();

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

jf.setSize(440,580);

jf.setLayout(null);

jf.setVisible(true);

jl1= new JLabel("WELCOME TO ");

jl1.setBounds(11,0,280,40);

jl1.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2 = new JLabel("PNR PORTAL");

jl2.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2.setBounds(98,28,280,80);

b1=new JButton();

b1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\chat1.gif"));

b1.setBorderPainted(false); //to set whether the border of component to be displayed or not

b1.setBounds(11,144,78,72);

b1.addActionListener(this);

jtfb = new JTextArea();

jtfb.setBackground(Color.WHITE);

jtfb.setBounds(100,144,280,78);

jtfb.setFont(new Font("Calibri",Font.ITALIC,18));

jtfb.setEditable(false);

jtfb.setText("Enter PNR Number ");

jl3= new JLabel("SEND");

jl3.setFont(new Font("Calibri",Font.BOLD,21));

b2 =new JButton();

b2.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\Submit\_button.png"));

b2.addActionListener(this);

jl3.setBounds(11,480,80,40);

jtf=new JTextField();

jtf.setBounds(72,480,294,40);

jtf.setBackground(Color.WHITE);

b2.setBounds(374,480,40,40);

// b2.setBorderPainted(false);

jf.getContentPane().add(jtfb);

jf.getContentPane().add(jtf);

jf.getContentPane().add(jl1);

jf.getContentPane().add(jl2);

jf.getContentPane().add(jl3);

jf.getContentPane().add(b1);

jf.getContentPane().add(b2);

jf.getContentPane().add(jp1);

jf.getContentPane().add(jb1);

jf.setVisible(true);

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==b2)

{

pnr = jtf.getText();

if(pnr.length()!=10)

{

JOptionPane.showMessageDialog(jf,"Enter Valid 10 Digit PNR");

}

else

{

try

{

Open\_Chrome.pnrEnquiry(pnr);

jf.dispose();

new GUI\_MAIN();

}

catch(Exception e11)

{

jtfb.setText("Please Check Internet Connectivity !");

};

}

}

}

}

class GUI\_STATUS implements ActionListener

{

JFrame jf;

JLabel jl1,jl2,jl3;

JTextArea jtfb;

JTextField jtf;

JButton b1,b2;

String inf[]=new String[3];

static int i = 0;

GUI\_STATUS()

{

JButton jb1 =new JButton();

jb1.setBounds(18,8,380,120);

jb1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\trainrun.gif"));

JPanel jp1 =new JPanel();

jp1.setBackground(Color.LIGHT\_GRAY);

jp1.setBounds(0,0,440,580);

jf=new JFrame("TRAIN\_STATUS\_PORTAL");

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

jf.setSize(440,580);

jf.setVisible(true);

jf.setLayout(null);

jl1= new JLabel("WELCOME TO ");

jl1.setBounds(11,0,280,40);

jl1.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2 = new JLabel("TICKET PORTAL");

jl2.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2.setBounds(98,28,280,80);

b1=new JButton();

b1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\chat1.gif"));

b1.setBorderPainted(false); //to set whether the border of component to be displayed or not

b1.setBounds(11,144,78,72);

b1.addActionListener(this);

jtfb = new JTextArea();

jtfb.setBackground(Color.WHITE);

jtfb.setBounds(100,144,280,78);

jtfb.setFont(new Font("Calibri",Font.ITALIC,18));

jtfb.setEditable(false);

jtfb.setText("Enter Train Number ");

jl3= new JLabel("SEND");

jl3.setFont(new Font("Calibri",Font.BOLD,21));

b2 =new JButton();

b2.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\Submit\_button.png"));

b2.addActionListener(this);

jl3.setBounds(11,480,80,40);

jtf=new JTextField();

jtf.setBounds(72,480,294,40);

jtf.setBackground(Color.WHITE);

b2.setBounds(374,480,40,40);

// b2.setBorderPainted(false);

jf.getContentPane().add(jtfb);

jf.getContentPane().add(jtf);

jf.getContentPane().add(jl1);

jf.getContentPane().add(jl2);

jf.getContentPane().add(jl3);

jf.getContentPane().add(b1);

jf.getContentPane().add(b2);

jf.getContentPane().add(jp1);

jf.getContentPane().add(jb1);

jf.setVisible(true);

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==b2)

{

if(i==0)

{

inf[i++]=jtf.getText().trim();

if(inf[0].equals(""))

{

i=0;

JOptionPane.showMessageDialog(jf,"Enter Valid Train Number");

}

else

jtfb.setText("Enter Station Code ");

jtf.setText("");

}

else if(i==1)

{

jtfb.setText("Enter Station Code ");

inf[i++]=jtf.getText().trim().toUpperCase();

if(inf[1].equals(""))

{

i=1;

JOptionPane.showMessageDialog(jf,"Enter Valid Station Code");

}

else

jtfb.setText("Enter day: Y- Yesterday ; P-Today\nT- Tomorrow");

jtf.setText("");

}

else

{

jtfb.setText("Enter day: Y- Yesterday ; P - Today\nT - Tommorow");

inf[2]=jtf.getText().trim().toUpperCase();

if(inf[2].equals(""))

{

i=2;

JOptionPane.showMessageDialog(jf,"Enter Valid Day");

}

else

{

Open\_Chrome.runningStat(inf[0],inf[1],inf[2].charAt(0));

jf.dispose(); //it will destroy jframe from operating system

new GUI\_MAIN();

}

}

}

}

}

class GUI\_TICKET implements ActionListener

{

JFrame jf;

JLabel jl1,jl2,jl3;

JTextArea jtfb;

JTextField jtf;

JButton b1,b2;

static String inf[]= {"","",""};

static int i = 0;

GUI\_TICKET()

{

JButton jb1 =new JButton();

jb1.setBounds(18,8,380,120);

jb1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\ticketp.gif"));

JPanel jp1 =new JPanel();

jp1.setBackground(Color.LIGHT\_GRAY);

jp1.setBounds(0,0,440,580);

jf=new JFrame("Ticket\_PORTAL");

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

jf.setSize(440,580);

jf.setVisible(true);

jf.setLayout(null);

jl1= new JLabel("WELCOME TO ");

jl1.setBounds(11,0,280,40);

jl1.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2 = new JLabel("TICKET PORTAL");

jl2.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2.setBounds(98,28,280,80);

b1=new JButton();

b1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\chat1.gif"));

b1.setBorderPainted(false); //to set whether the border of component to be displayed or not

b1.setBounds(11,144,78,72);

b1.addActionListener(this);

jtfb = new JTextArea();

jtfb.setBackground(Color.WHITE);

jtfb.setBounds(100,144,280,78);

jtfb.setFont(new Font("Calibri",Font.ITALIC,18));

jtfb.setEditable(false);

jtfb.setText("Enter Boarding Station code ");

jl3= new JLabel("SEND");

jl3.setFont(new Font("Calibri",Font.BOLD,21));

b2 =new JButton();

b2.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\Submit\_button.png"));

b2.addActionListener(this);

jl3.setBounds(11,480,80,40);

jtf=new JTextField();

jtf.setBounds(72,480,294,40);

jtf.setBackground(Color.WHITE);

b2.setBounds(374,480,40,40);

// b2.setBorderPainted(false);

jf.getContentPane().add(jtfb);

jf.getContentPane().add(jtf);

jf.getContentPane().add(jl1);

jf.getContentPane().add(jl2);

jf.getContentPane().add(jl3);

jf.getContentPane().add(b1);

jf.getContentPane().add(b2);

jf.getContentPane().add(jp1);

jf.getContentPane().add(jb1);

jf.setVisible(true);

if(!inf[0].equals(""))

{

jtfb.setText("Enter Date of Journey \ndd/mm/yr");

}

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==b1)

{

jtfb.setText("Hey ! Don't Touch me");

}

else if(e.getSource()==b2 && inf[1].equals(""))

{

if(i==0)

{

inf[i++]=jtf.getText().trim().toUpperCase();

if(inf[0].equals("") || inf[0].length()==1)

{

i=0;

JOptionPane.showMessageDialog(jf,"Enter Valid Station");

}

else

{

jtfb.setText("Enter Destination Station code : ");

}

jtf.setText("");

}

else if(i==1)

{

inf[i++]=jtf.getText().trim().toUpperCase();

if(inf[1].equals("") || inf[0].equals(inf[1]))

{

JOptionPane.showMessageDialog(jf,"Enter Valid Station");

i=1;

}

else

{

jtfb.setText("Enter date in format: dd/mm/y ");

}

jtf.setText("");

}

}

else if(e.getSource()==b2)

{

// jtfb.setText("Enter Date in dd/mm/yr");

inf[2]=jtf.getText();

if(!inf[2].equals("") && inf[2].length()==10)

{

try

{

new Open\_Chrome().ticket(inf[0],inf[1],inf[2]);

}

catch(Exception ee) {};

jf.dispose();

new GUI\_MAIN();

}

else

{

JOptionPane.showMessageDialog(jf,"ENTER IN FORMAT dd/mm/yr");

}

}

}

}

class GUI\_MAIN implements ActionListener

{

JFrame jf1;

JButton b1,b2,b3,b4,b5,b6;

JLabel jl1,jl2,jl3;

JTextField jtf,jtfb;

String query;

ArrayList<String> tokens = new ArrayList<String>();

int len;

public GUI\_MAIN()

{

jf1= new JFrame("E- Railway");

jf1.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

jf1.setLayout(null);

jf1.setSize(440,580);

JPanel jp1 =new JPanel();

JButton jb1=new JButton();

jp1.setBounds(0,0,440,580);

jp1.setBackground(Color.LIGHT\_GRAY);

jb1.setBounds(18,8,380,120);

jb1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\mainscreen.gif"));

jl1= new JLabel("WELCOME TO ");

jl1.setBounds(11,0,280,40);

jl1.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2 = new JLabel("E - RAILWAY");

jl2.setFont(new Font("Lucida Calligraphy",Font.BOLD,28));

jl2.setBounds(98,28,280,80);

jtf = new JTextField();

jl3= new JLabel("SEND");

jl3.setFont(new Font("Calibri",Font.BOLD,21));

b5 =new JButton();

b5.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\Submit\_button.png"));

b5.setBorderPainted(false);

b5.addActionListener(this);

jl3.setBounds(11,480,80,40);

jtf.setBounds(72,480,294,40);

jtf.setBackground(Color.WHITE);

b5.setBounds(374,480,40,40);

b1= new JButton(); //BookTicket

b1.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\BookTicket\_button.png"));

b1.addActionListener(this);

b2 =new JButton(); //TRS

b2.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\trs.png"));

b2.addActionListener(this);

b3=new JButton(); //PNR

b3.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\pnr.png"));

b3.addActionListener(this);

b4= new JButton(); //TSCH

b4.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\tsch.png"));

b4.addActionListener(this);

b6= new JButton(); //BOT

b6.setBounds(11,144,78,72);

b6.addActionListener(this);

b6.setIcon(new ImageIcon("C:\\Users\\Dell\\OneDrive\\Documents\\Project\\chat1.gif"));

b6.setBorderPainted(false);

jtfb = new JTextField();

jtfb.setBackground(Color.WHITE);

jtfb.setBounds(100,144,280,78);

jtfb.setFont(new Font("Calibri",Font.ITALIC,20));

jtfb.setEditable(false);

jtfb.setForeground(Color.BLUE);

jtfb.setText("Please Select Option From Below");

int byaxis=240;

b1.setBounds(8,byaxis,410,40);

b2.setBounds(8,byaxis+50,410,40);

b3.setBounds(8,byaxis+100,410,40);

b4.setBounds(8,byaxis+150,410,40);

jf1.getContentPane().add(jl1);

jf1.getContentPane().add(jl2);

jf1.getContentPane().add(b1);

jf1.getContentPane().add(b2);

jf1.getContentPane().add(b3);

jf1.getContentPane().add(b4);

jf1.getContentPane().add(b5);

jf1.getContentPane().add(jtf);

jf1.getContentPane().add(jl3);

jf1.getContentPane().add(b6);

jf1.getContentPane().add(jtfb);

jf1.getContentPane().add(jp1);

jf1.getContentPane().add(jb1);

jf1.setVisible(true);

}

public void actionPerformed(ActionEvent e)

{

if(e.getSource()==b6)

jtfb.setText("Dont' Touch Me !");

else if(e.getSource()==b1)

{

jf1.dispose();

new GUI\_TICKET();

}

else if(e.getSource()==b2)

{

jf1.dispose();

new GUI\_STATUS();

}

else if(e.getSource()==b3)

{

jf1.dispose();

new GUI\_PNR();

}

else if(e.getSource()==b4)

{

jf1.dispose();

new GUI\_TrainSchedule();

}

else if(e.getSource()==b5)

{

query=jtf.getText().trim().toUpperCase();

len=query.length();

String strarr[] = query.split("\\s+"); // \\s or \\s+ is regular expression to find sequence of character 'Space'

try

{

for(int i=0;i<len;i++)

{

tokens.add(strarr[i]);

}

}

catch(Exception ee) {};

if(tokens.indexOf("BOOK")!=-1)

{

if(tokens.indexOf("FROM")!=-1 && tokens.indexOf("TO")!=-1)

{

String fromstn;

String tostn;

try

{

fromstn=tokens.get(tokens.indexOf("FROM")+1);

tostn=tokens.get(tokens.indexOf("TO")+1);

GUI\_TICKET.inf[0]=fromstn;

GUI\_TICKET.inf[1]=tostn;

jf1.dispose();

new GUI\_TICKET();

}

catch(Exception ee)

{

JOptionPane.showMessageDialog(jf1,"INVALID ENTRY");

};

jf1.dispose();

new GUI\_TICKET();

}

else

{

jf1.dispose();

new GUI\_TICKET();

}

}

else if(tokens.indexOf("RUNNING")!=-1 || tokens.indexOf("RUN")!=-1)

{

jf1.dispose();

new GUI\_STATUS();

}

else if(tokens.indexOf("PNR")!=-1)

{

jf1.dispose();

new GUI\_PNR();

}

else if(tokens.indexOf("SCHEDULE")!=-1 || tokens.indexOf("TIMETABLE")!=-1 || tokens.indexOf("ROUTINE")!=-1)

{

jf1.dispose();

new GUI\_TrainSchedule();

}

}

}

}

public class ChatBotGUI

{

public static void main(String[] args)

{

System.setProperty("webdriver.chrome.driver","D:\\chromedriver.exe");

new GUI\_MAIN();

}

}