# JAVA AWT PROJECT

# DEVELOPING A GUI BASED APPLICATION USING AWT CLASSES


Topic : CAREER INFORMATION MANAGEMENT SYSTEM

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Branch : B.TECH

Course : Information Technology

Section : A

Subject : Object Oriented Programming

CourseCode : 22ITC22

## Aim:

## To Develop a GUI based Career Information Management System

## Coding:

```
import java.awt.*;
import java.awt.event.*;
import java.util.Random;

public class career extends Frame {
    private Panel p1, p2, p3, p4,p5,p6,p7,p8,p9,p10,p11,p12 ;
    private Button b1, b2,
b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16,b17,b18,b19,b20,b21,b22,b23,b
24,b25;
    private Label l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11;
    private Choice choice1,choice2;
    private TextField tf1,tf2,tf3,tf4,tf5,tf6;
    private ImagePanel i1,i2,i3,i4,i5,i6,i7,i8,i9;
    private CheckboxGroup obj1,obj2,obj3,obj4,obj5;
    private Checkbox cb1,cb2,cb3,cb4,cb5,cb6,cb7,cb8,cb9,cb10,cb11;

    public career() {
        setSize(1500, 800);
        setLayout(null);


        // panel 1
        p1 = new Panel();
        p1.setLayout(null);
        p1.setBounds(0, 0, 1500, 800);

        i1 = new ImagePanel("image1.jpg");
        i1.setBounds(100, 50, 1250, 600);
        p1.add(i1);

        b1 = new Button("CONTINUE");
        b1.setBounds(700, 700, 100, 30);
        b1.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e){
                    remove(p1);
                    add(p2);
                    repaint();
                }
```

```
        });
        p1.add(b1);


        // panel 2
        p2=new Panel();
        p2.setLayout(null);
        p2.setBounds(0, 0, 1500, 800);

        i2 = new ImagePanel("image2.jpg");
        i2.setBounds(100, 50, 700, 600);
        p2.add(i2);

        b2 = new Button("DEVELOPER");
        b2.setBounds(1000, 200, 100, 300);
        b2.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e){
                    remove(p2);
                    add(p3);
                    repaint();
                }
            });
        p2.add(b2);

        b3 = new Button("OTHERS");
        b3.setBounds(1150, 200, 100, 300);
        b3.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e)
                {
                    remove(p2);
                    add(p4);
                    repaint();
                }
            });
        p2.add(b3);


        // panel 3 ( developer )
        p3 = new Panel();
        p3.setLayout(null);
        p3.setBounds(0, 0, 1500, 800);

        b4 = new Button("FRONT END DEVELOPER");
        b4.setBounds(350, 60, 300, 300);
        b4.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e){
                    remove(p3);
                    add(p5);
                    repaint();
```

```
            }
        });
    p3.add(b4);

    b5 = new Button("BACK END DEVELOPER");
    b5.setBounds(850, 60, 300, 300);
    b5.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e){
                remove(p3);
                add(p6);
                repaint();
            }
        });
    p3.add(b5);

    b7 = new Button("FULL STACK DEVELOPER");
    b7.setBounds(600, 380, 300, 300);
    b7.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e){
                remove(p3);
                add(p7);
                repaint();
            }
        });
    p3.add(b7);

    b24 = new Button("BACK");
    b24.setBounds(700, 725, 100, 30);
    b24.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e){
                remove(p3);
                add(p2);
                repaint();
            }
        });
    p3.add(b24);


    // panel 4 ( OTHERS )
    p4 = new Panel();
    p4.setLayout(null);
    p4.setBounds(0, 0, 1500, 800);

    b8 = new Button("CLOUD ENGINEERING");
    b8.setBounds(300, 150, 400, 400);
    b8.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e){
                remove(p4);
                add(p8);
```

```
                repaint();
            }
        });
    p4.add(b8);

    b9 = new Button("DATA ANALYST");
    b9.setBounds(900, 150, 400, 400);
    b9.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e){
                remove(p4);
                add(p9);
                repaint();
            }
        });
    p4.add(b9);

    b25 = new Button("BACK");
    b25.setBounds(750, 650, 100, 30);
    b25.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e){
                remove(p4);
                add(p2);
                repaint();
            }
        });
    p4.add(b25);


    // panel 5  FRONT
    p5 = new Panel();
    p5.setLayout(null);
    p5.setBounds(0, 0, 1500, 800);

    i4 = new ImagePanel("fe.jpg");
    i4.setBounds(250, 50, 1000, 600);
    p5.add(i4);

    b12 = new Button("APPLY");
    b12.setBounds(850, 700, 100, 30);
    b12.addActionListener(new ActionListener(){
            public void actionPerformed(ActionEvent e){
                remove(p5);
                add(p10);
                repaint();
            }
        });
    p5.add(b12);
```

```
        b13 = new Button("BACK");
        b13.setBounds(550, 700, 100, 30);
        b13.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p5);
                    add(p3);
                    repaint();
                }
            });
        p5.add(b13);


        // panel 6  BACK
        p6 = new Panel();
        p6.setLayout(null);
        p6.setBounds(0, 0, 1500, 800);

        i5 = new ImagePanel("be.jpg");
        i5.setBounds(250, 50, 1000, 600);
        p6.add(i5);

        b14 = new Button("APPLY");
        b14.setBounds(850, 700, 100, 30);
        b14.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p6);
                    add(p10);
                    repaint();
                }
            });
        p6.add(b14);

        b15 = new Button("BACK");
        b15.setBounds(550, 700, 100, 30);
        b15.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p6);
                    add(p3);
                    repaint();
                }
            });
        p6.add(b15);


        // panel 7 FULL STACK
        p7 = new Panel();
        p7.setLayout(null);
        p7.setBounds(0, 0, 1500, 800);
```

```
        i6 = new ImagePanel("fs.jpg");
        i6.setBounds(250, 50, 1000, 600);
        p7.add(i6);

        b16 = new Button("APPLY");
        b16.setBounds(850, 700, 100, 30);
        b16.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p7);
                    add(p10);
                    repaint();
                }
            });
        p7.add(b16);

        b17 = new Button("BACK");
        b17.setBounds(550, 700, 100, 30);
        b17.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p7);
                    add(p3);
                    repaint();
                }
            });
        p7.add(b17);


        // panel 8  CLOUD
        p8 = new Panel();
        p8.setLayout(null);
        p8.setBounds(0, 0, 1500, 800);

        i7 = new ImagePanel("cloud.jpg");
        i7.setBounds(250, 50, 1000, 600);
        p8.add(i7);

        b18 = new Button("APPLY");
        b18.setBounds(850, 700, 100, 30);
        b18.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p8);
                    add(p10);
                    repaint();
                }
            });
        p8.add(b18);

        b19 = new Button("BACK");
        b19.setBounds(550, 700, 100, 30);
```

```
        b19.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p8);
                    add(p4);
                    repaint();
                }
            });
        p8.add(b19);


        // panel 9   DATA
        p9 = new Panel();
        p9.setLayout(null);
        p9.setBounds(0, 0, 1500, 800);

        i8 = new ImagePanel("data.jpg");
        i8.setBounds(250, 50, 1000, 600);
        p9.add(i8);

        b20 = new Button("APPLY");
        b20.setBounds(850, 700, 100, 30);
        b20.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p9);
                    add(p10);
                    repaint();
                }
            });
        p9.add(b20);

        b21 = new Button("BACK");
        b21.setBounds(550, 700, 100, 30);
        b21.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p9);
                    add(p4);
                    repaint();
                }
            });
        p9.add(b21);


        // panel 10 ( applying )
        p10 = new Panel();
        p10.setLayout(null);
        p10.setBounds(0, 0, 1500, 800);

        b22 = new Button("CANCEL");
        b22.setBounds(500, 700, 100, 30);
```

```
        b22.addActionListener(new ActionListener(){
                public void actionPerformed(ActionEvent e){
                    remove(p10);
                    add(p2);
                    repaint();
                }
            });
        p10.add(b22);

        b23 = new Button(" APPLY ");
        b23.setBounds(800, 700, 100, 30);
        b23.addActionListener(new ActionListener() {
                public void actionPerformed(ActionEvent e){
                    remove(p10);
                    add(p11);
                    repaint();
                }
            });
        p10.add(b23);

        l1=new Label("Firstname");
        l1.setBounds(600,100,120,20);
        p10.add(l1);

        tf1=new TextField();
        tf1.setBounds(750,100,200,20);
        p10.add(tf1);

        l2=new Label("Lastname");
        l2.setBounds(600,140,120,20);
        p10.add(l2);

        tf2=new TextField();
        tf2.setBounds(750,140,200,20);
        p10.add(tf2);

        l3=new Label("Email-id");
        l3.setBounds(600,180,120,20);
        p10.add(l3);

        tf3=new TextField();
        tf3.setBounds(750,180,200,20);
        p10.add(tf3);

        l4=new Label("Gender");
        l4.setBounds(600,220,120,20);
        p10.add(l4);
```

```
        obj1=new CheckboxGroup();
        cb1=new Checkbox("Male",obj1,false);
        cb2=new Checkbox("Female",obj1,false);
        cb1.setBounds(750,220,100,20);
        cb2.setBounds(850,220,100,20);
        p10.add(cb1);
        p10.add(cb2);

        l5=new Label("Phone");
        l5.setBounds(600,260,120,20);
        p10.add(l5);

        tf4=new TextField();
        tf4.setBounds(750,260,200,20);
        p10.add(tf4);

        l6=new Label("Graduation");
        l6.setBounds(600,300,120,20);
        p10.add(l6);

        tf5=new TextField();
        tf5.setBounds(750,300,200,20);
        p10.add(tf5);

        l7=new Label("Pick the course");
        l7.setBounds(600,340,120,20);
        p10.add(l7);

        obj2=new CheckboxGroup();
        cb3=new Checkbox("Developer",obj2,false);
        cb4=new Checkbox("Other",obj2,false);
        cb3.setBounds(750, 340, 100, 20);
        cb4.setBounds(850, 340, 100, 20);

        p10.add(cb3);
        p10.add(cb4);

        obj3=new CheckboxGroup();
        cb5=new Checkbox("Back end",obj3,false);
        cb6=new Checkbox("Front end",obj3,false);
        cb7=new Checkbox("Full stack",obj3,false);
        cb5.setBounds(750, 380, 100, 20);
        cb6.setBounds(750, 420, 100, 20);
        cb7.setBounds(750, 460, 100, 20);

        obj4=new CheckboxGroup();
        cb8=new Checkbox("Cloud engineer",obj4,false);
        cb9=new Checkbox("Data analyst",obj4,false);
```

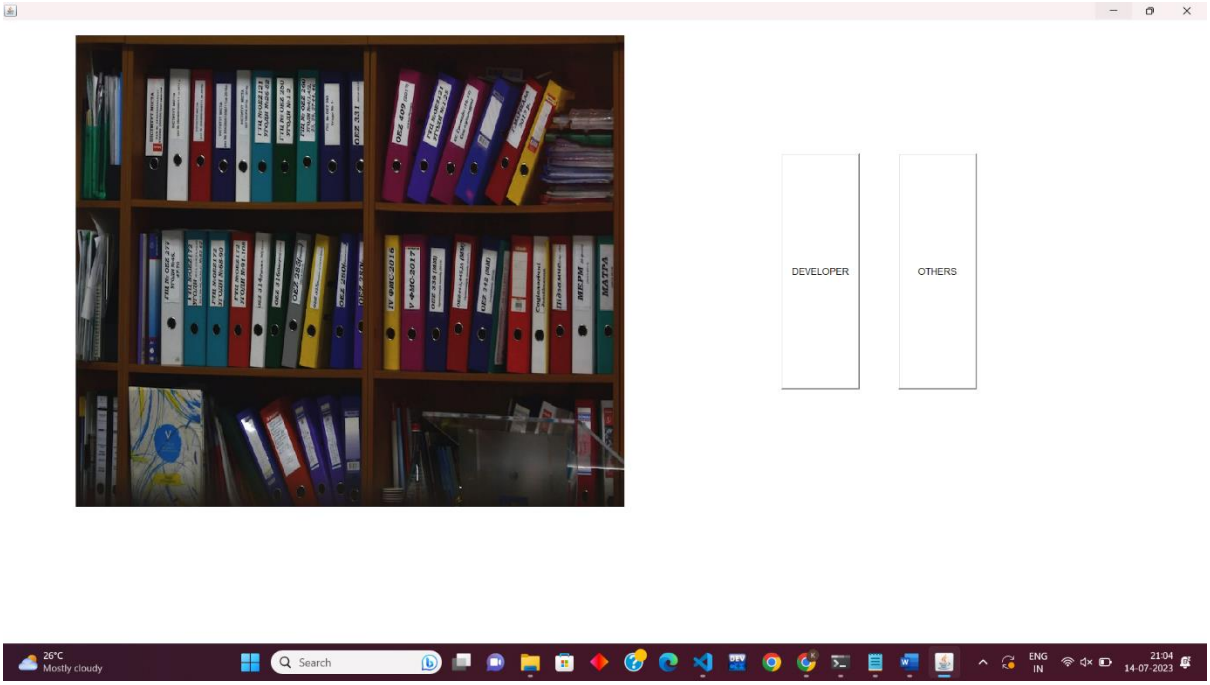
```
        cb8.setBounds(750, 380, 120, 20);
        cb9.setBounds(750, 420, 120, 20);

        cb3.addItemListener(new ItemListener(){
                public void itemStateChanged(ItemEvent ie){
                    Checkbox ch =(Checkbox)ie.getItemSelectable();
                    if(ch.getState()==true)
                    {
                        p10.remove(cb8);
                        p10.remove(cb9);
                        p10.add(cb5);
                        p10.add(cb6);
                        p10.add(cb7);
                    }
                }
            });

        cb4.addItemListener(new ItemListener(){
                public void itemStateChanged(ItemEvent ie){
                    Checkbox ch =(Checkbox)ie.getItemSelectable();
                    if(ch.getState()==true)
                    {
                        p10.remove(cb5);
                        p10.remove(cb6);
                        p10.remove(cb7);
                        p10.add(cb8);
                        p10.add(cb9);
                    }
                }
            });

        l8=new Label("Experience");
        l8.setBounds(600,500,120,20);
        p10.add(l8);

        obj5=new CheckboxGroup();
        cb10=new Checkbox("YES",obj5,false);
        cb11=new Checkbox("NO",obj5,false);
        cb10.setBounds(750, 500, 100, 20);
        cb11.setBounds(850, 500, 100, 20);

        p10.add(cb10);
        p10.add(cb11);

        l9=new Label("Number of years");
        l9.setBounds(750,540,120,20);

        tf6=new TextField();
```

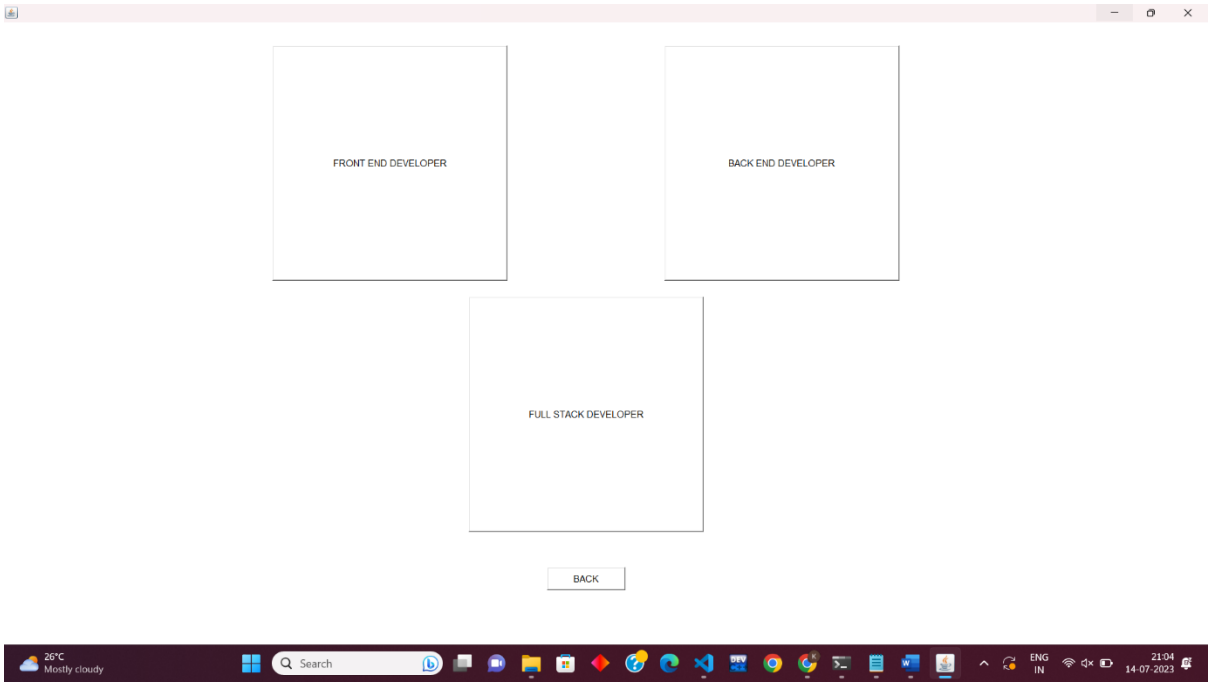
```
        tf6.setBounds(900,540,200,20);

        l10=new Label("CGPA");
        l10.setBounds(600,580,120,20);
        p10.add(l10);

        Choice choice1=new Choice();
        choice1.setBounds(780,580,200,20);
        choice1.add("Select");
        choice1.add("9 above");
        choice1.add("8 above");
        choice1.add("7 above");
        choice1.add("6 above");
        choice1.add("below 5");
        p10.add(choice1);

        l11=new Label("Specialized certificates in");
        l11.setBounds(600,620,160,20);
        p10.add(l11);

        Choice choice2=new Choice();
        choice2.setBounds(780,620,200,20);
        choice2.add("Select");
        choice2.add("Web Development");
        choice2.add("Artificial Intelligence");
        choice2.add("Cloud Computing");
        choice2.add("Machine Learning");
        choice2.add("UI/UX Designing");
        p10.add(choice2);


        cb10.addItemListener(new ItemListener(){
                public void itemStateChanged(ItemEvent ie){
                    Checkbox ch =(Checkbox)ie.getItemSelectable();
                    if(ch.getState()==true)
                    {
                        p10.add(l9);
                        p10.add(tf6);
                    }
                }
            });

        cb11.addItemListener(new ItemListener(){
                public void itemStateChanged(ItemEvent ie){
                    Checkbox ch =(Checkbox)ie.getItemSelectable();
                    if(ch.getState()==true)
                    {
                        p10.remove(l9);
                        p10.remove(tf6);
```

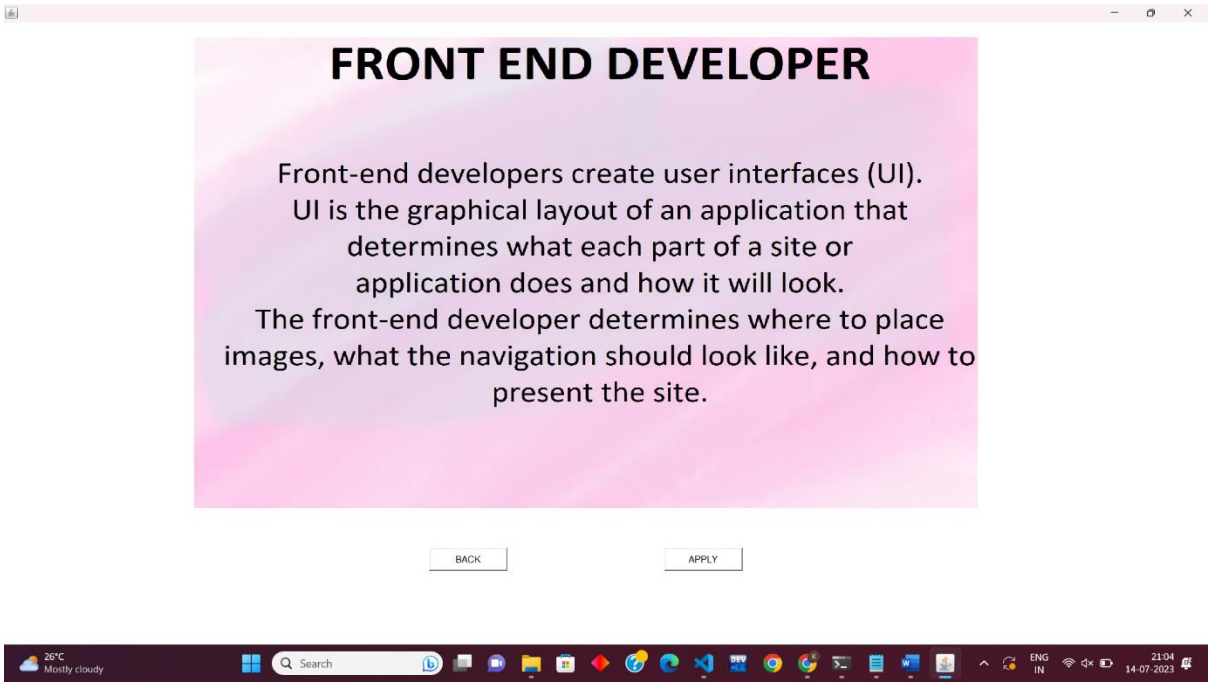
```
                    }
                }
            });


        // panel 11 ( thankyou )
        p11 = new Panel();
        p11.setLayout(null);
        p11.setBounds(0, 0, 1500, 800);

        i9 = new ImagePanel("tq.jpg");
        i9.setBounds(100, 50, 1000, 600);
        p11.add(i9);


        add(p1);
        setVisible(true);

        addWindowListener(new WindowAdapter() {
            public void windowClosing(WindowEvent e) {
                System.exit(0);
            }
        });
    }

    public static void main(String[] args) {
        career p= new career();
    }
}


class ImagePanel extends Panel {
    private Image image;

    public ImagePanel(String imagePath) {
        image = Toolkit.getDefaultToolkit().getImage(imagePath);
    }

    public void paint(Graphics g) {
        super.paint(g);

        g.drawImage(image, 0, 0, getWidth(), getHeight(), this);
    }
}
```

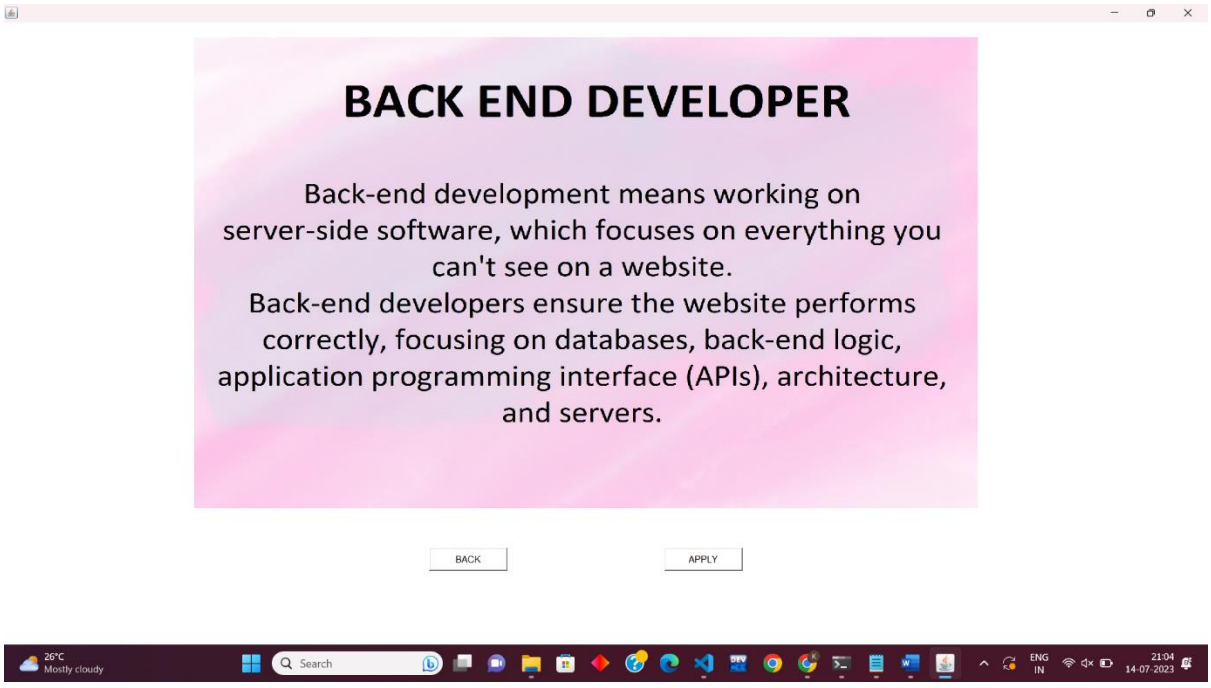
# Output:

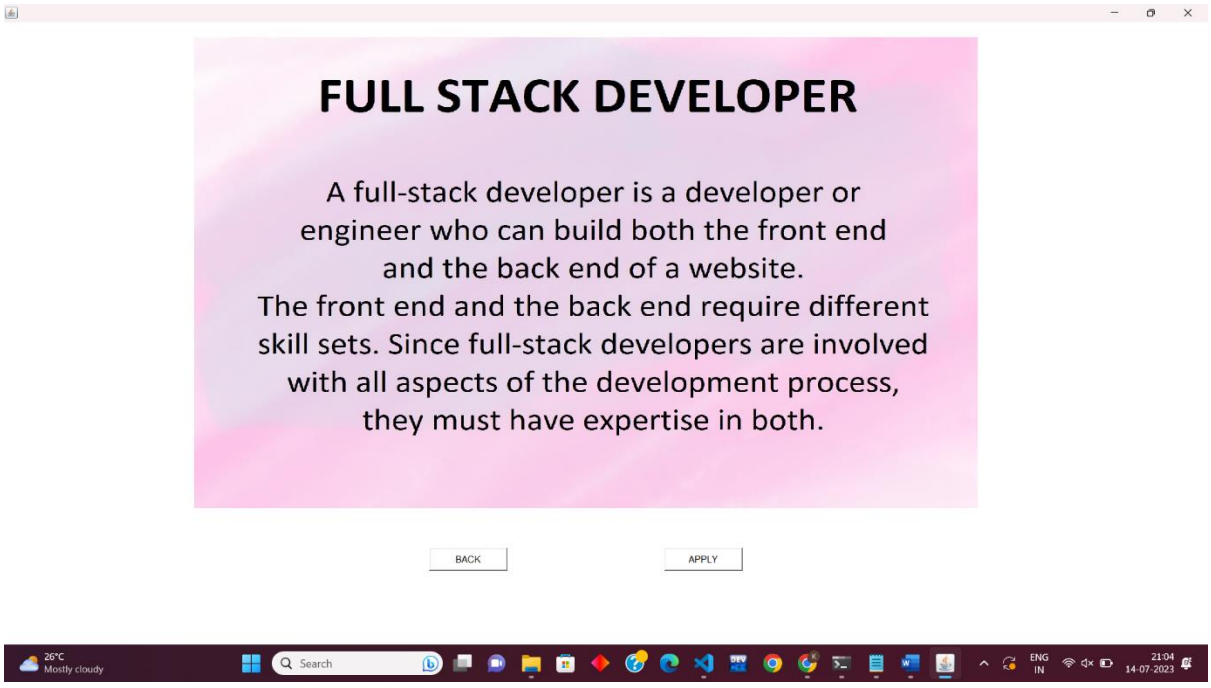

CAREER INFORMATION
MANAGEMENT SYSTEM
CONTINUE
26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023

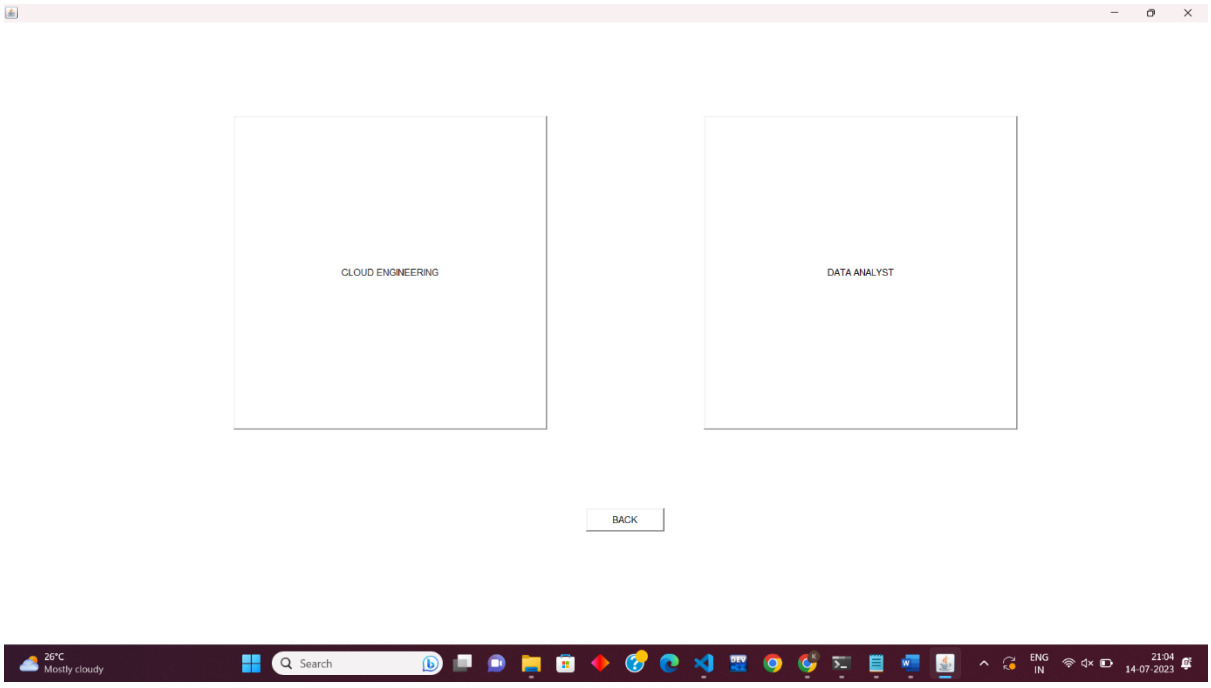

DEVELOPER
OTHERS
26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023

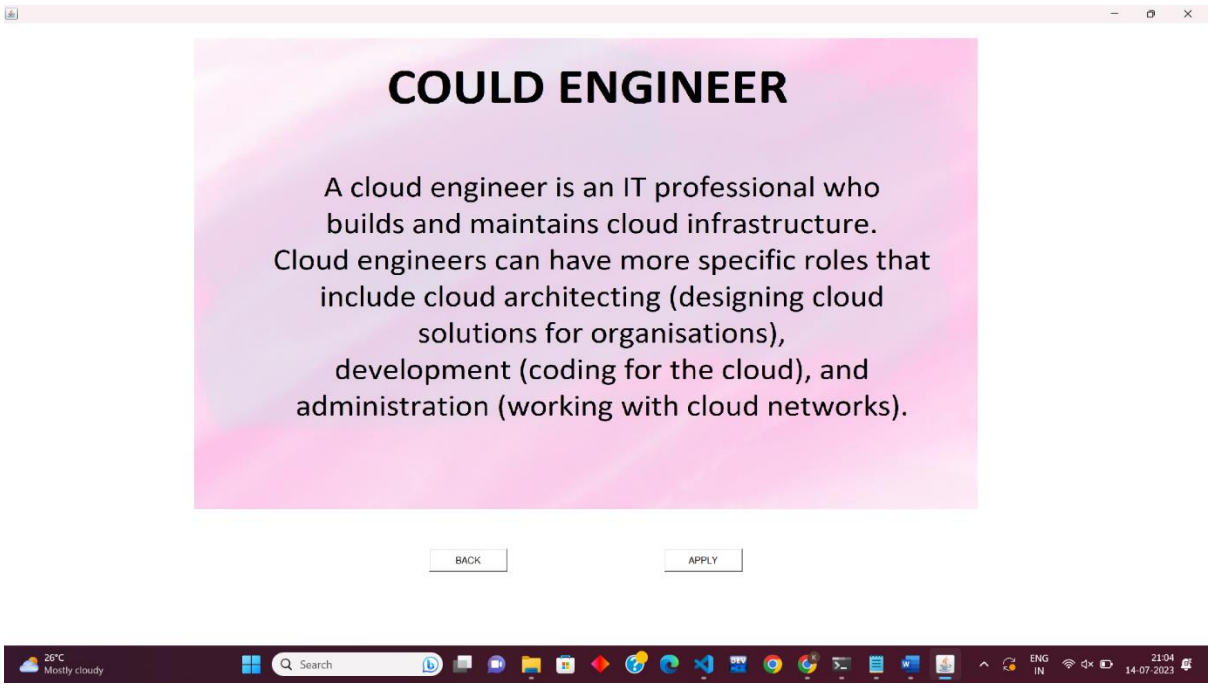

FRONT END DEVELOPER
BACK END DEVELOPER
FULL STACK DEVELOPER
BACK
26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023

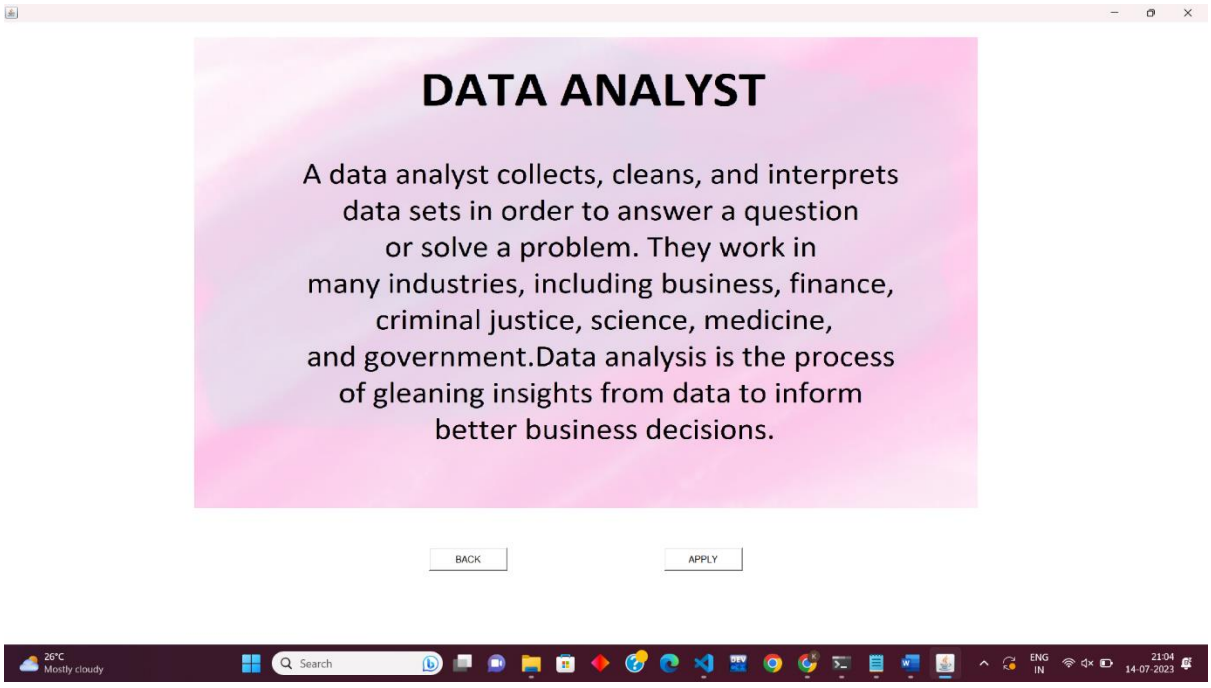

FRONT END DEVELOPER
Front-end developers create user interfaces (UI).
UI is the graphical layout of an application that
determines what each part of a site or
application does and how it will look.
The front-end developer determines where to place
images, what the navigation should look like, and how to
present the site.
BACK
APPLY
26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023


BACK END DEVELOPER
Back-end development means working on server-side software, which focuses on everything you can't see on a website.
Back-end developers ensure the website performs correctly, focusing on databases, back-end logic, application programming interface (APIs), architecture, and servers.
BACK
APPLY
26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023

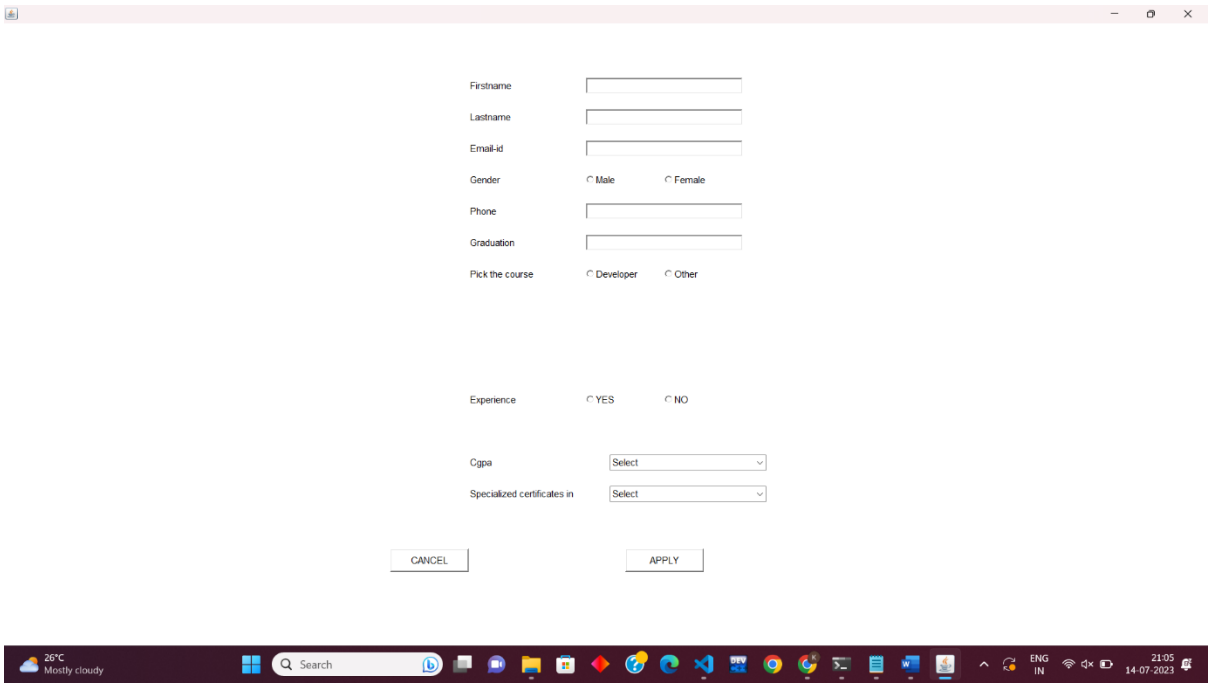

FULL STACK DEVELOPER
A full-stack developer is a developer or engineer who can build both the front end and the back end of a website.
The front end and the back end require different skill sets. Since full-stack developers are involved with all aspects of the development process, they must have expertise in both.
BACK
APPLY
26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023


CLOUD ENGINEERING
DATA ANALYST
BACK

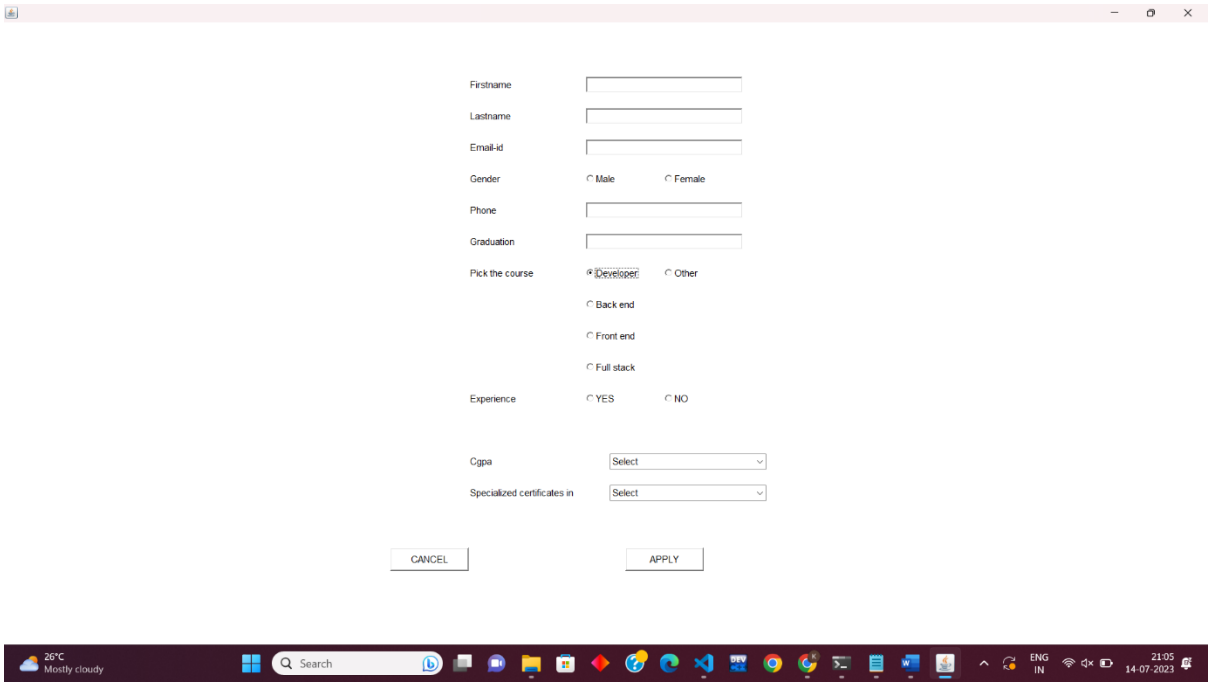

COULD ENGINEER
A cloud engineer is an IT professional who builds and maintains cloud infrastructure. Cloud engineers can have more specific roles that include cloud architecting (designing cloud solutions for organisations), development (coding for the cloud), and administration (working with cloud networks).
BACK
APPLY

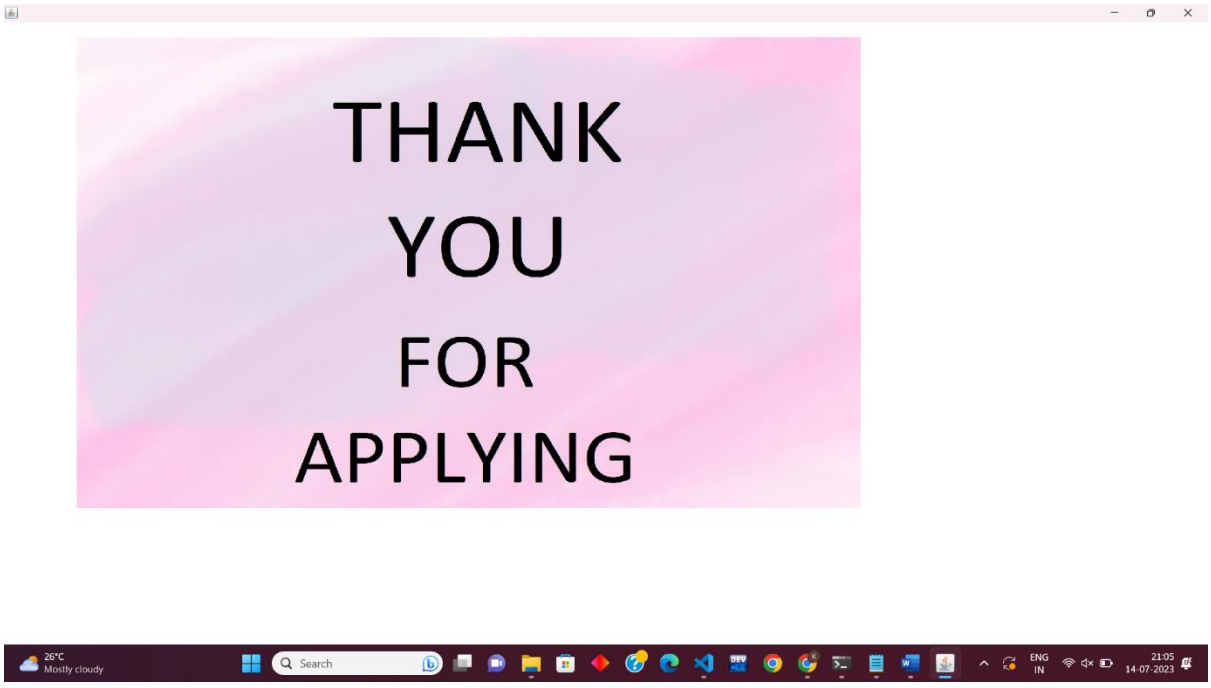

DATA ANALYST
A data analyst collects, cleans, and interprets data sets in order to answer a question or solve a problem. They work in many industries, including business, finance, criminal justice, science, medicine, and government.Data analysis is the process of gleaning insights from data to inform better business decisions.
BACK
APPLY


26°C
Mostly cloudy
Search
ENG
IN
21:04
14-07-2023


Firstname
Lastname
Email-id
Gender
Male
Female
Phone
Graduation
Pick the course
Developer
Other
Experience
YES
NO
Cgpa
Select
Specialized certificates in
Select
CANCEL
APPLY


26°C
Mostly cloudy
Search
ENG
IN
21:05
14-07-2023


Firstname
Lastname
Email-id
Gender
Male
Female
Phone
Graduation
Pick the course
Developer
Other
Back end
Front end
Full stack
Experience
YES
NO
Cgpa
Select
Specialized certificates in
Select
CANCEL
APPLY
26°C
Mostly cloudy
Search
ENG
IN
21:05
14-07-2023


THANK
YOU
FOR
APPLYING
26°C
Mostly cloudy
Search
ENG
IN
21:05
14-07-2023