A MicroProject report on

“Designing job application form using swing/applet”

Submitted to the CMR Institute of Technology in partial fulfillment of the requirement for the award of the Laboratory of

Oops through java of

II-B.Tech. II-Semester

in

Computer Science and Engineering Department

Submitted by

A. Anil	20R01A05J3
B. Shradha	20R01A05J8
G. Malavika	20R01A05L2
K. Sai Raj Nikhil	20R01A05L3
K. Sreeja	20R01A05M0
K. Abhisaik Reddy	20R01A05M1
S. Akshitha	20R01A05P0
V. Abhiram Reddy	20R01A05P8

Under the Guidance Of

Mr.Ravi Mogili

Assistant Professor CSE Dept

CMR INSTITUTE OF TECHNOLOGY

(UGC AUTONOMOUS)(Approved by AICTE,Affiliated to JNTU,Kukatpally,Hyderabad)

Kandlakoya,Medchal Road,Hyderabad

2021-2022

CMR INSTITUTE OF TECHNOLOGY

(UGC AUTONOMUS)

(Approved by AICTE, Affiliated to JNTU, Kukatpally, Hyderabad)

Kandlakoya, Medchal Road, Hyderabad.

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that a Micro Project entitled with: "**Designing job application form using swing/applet** " is being

Submitted By

A. Anil	20R01A05J3
B. Shradha	20R01A05J8
G. Malavika	20R01A05L2
K. Sai Raj Nikhil	20R01A05L3
K. Sreeja	20R01A05M0
K. Abhisaik Reddy	20R01A05M1
S. Akshitha	20R01A05P0
V. Abhiram Reddy	20R01A05P8

In partial fulfillment of the requirement for award of the **Oops through java** of II-B.tech II-Semester in CSE towards a record of a bonafide work carried out under our guidance and supervision

Signature of Faculty **Signature of HOD**

ACKNOWLEDGEMENT

We are extremely grateful to **Dr. M. Janga Reddy**, **Director**, **Dr. B. Satyanarayana**, **Principal** and **Mr.A.Prakash,Head of Department**, Dept of Computer Science and Engineering, CMR Institute of Technology for their inspiration and valuable guidance during entire duration.

We are extremely thankful to our **Oops through java** Lab faculty in-charge Ravi Mogili sir**,** Computer Science and Engineering department, CMR Institute of Technology for her constant guidance, encouragement and moral support throughout the project.

We express our thanks to all staff members and friends for all the help and coordination extended in bringing out this Project successfully in time.

Finally, we are very much thankful to our parents and relatives who guided directly or indirectly for successful completion of the project**.**

A. Anil	20R01A05J3
B. Shradha	20R01A05J8
G. Malavika	20R01A05L2
K. Sai Raj Nikhil	20R01A05L3
K. Sreeja	20R01A05M0
K. Abhisaik Reddy	20R01A05M1
S. Akshitha	20R01A05P0
V. Abhiram Reddy	20R01A05P8

CONTENTS

1.INTRODUCTION:

Java applets were small applications written in the Java programming language, or another programming language that compiles to Java bytecode, and delivered to users in the form of Java bytecode. The user launched the Java applet from a web page, and the applet was then executed within a Java virtual machine (JVM) in a process separate from the web browser itself. A Java applet could appear in a frame of the web page, a new application window, Sun's AppletViewer, or a stand-alone tool for testing applets.

Java applets were introduced in the first version of the Java language, which was released in 1995. Beginning in 2013, major web browsers began to phase out support for the underlying technology applets used to run, with applets becoming completely unable to be run by 2015–2017. Java applets were deprecated by Java 9 in 2017.

Java applets were usually written in Java, but other languages such as Jython, JRuby, Pascal,[11] Scala, NetRexx, or Eiffel (via SmartEiffel) could be used as well.

Java applets run at very fast speeds and until 2011, they were many times faster than JavaScript. Unlike JavaScript, Java applets had access to 3D hardware acceleration, making them well-suited for non-trivial, computation-intensive visualizations. As browsers have gained support for hardware-accelerated graphics thanks to the canvas technology (or specifically WebGL in the case of 3D graphics), as well as just-in-time compiled JavaScript,the speed difference has become less noticeable.

Since Java bytecode is cross-platform (or platform independent), Java applets could be executed by clients for many platforms, including Microsoft Windows, FreeBSD, Unix, macOS and Linux. They could not be run on mobile devices, which do not support running standard Oracle JVM bytecode. Android devices can run code written in Java compiled for the Android Runtime.

Swing is a part of the **JFC (Java Foundation Classes)**. Building Graphical User Interface in Java requires the use of Swings. **Swing Framework** contains a large set of components which allow a high level of customization and provide rich functionalities, and is used to create window-based applications. Java swing components are lightweight, platform-independent**,** provide powerful components like tables, scroll panels, buttons, list, color chooser, etc.

2.ALGORITHM/FLOWCHART/PROCEDURE:

1. Create a Java file that contains the main class – Registration. This class will only contain the main method to invoke the required methods.

2. Create another class MyFrame, which will contain the form.

3. In this MyFrame Class, the methods to be made are:

Components like JLabel, JTextField, JRadioButton, ButtonGroup, JComboBox, and JTextArea. These components will collectively form the Registration form.

- A constructor, to initialize the components with default values.
- A method **actionPerformed()** to get the action performed by the user and act accordingly.

4. Copy the code of MyFrame class from below.

5. Save the file as Registration.java

6. Compile the file by using javac command: javac Registration.java

7. Run the program by calling the main class: java Registration

3.REQUIREMENTS(HARDWARE AND SOFTWARE):

The required software are like **Net Beans 12.5**, we must and should have windows Os greater than or equal to 7 and we can't run this in 32 bit operating system we must contain Os of 64 bit these are requirements of the system to execute this program**.**

4.IMPLEMENTATION(CODE):

```
// Java program to implement

// a Simple Registration Form

// using Java Swing


import javax.swing.*;

import java.awt.*;

import java.awt.event.*;


class MyFrame

        extends JFrame

        implements ActionListener {
```

```
// Components of the Form
private Container c;
private JLabel title;
private JLabel name;
private JTextField tname;
private JLabel  mno;
private JTextField tmno;
private JLabel gender;
private JRadioButton male;
private JRadioButton female;
private ButtonGroup gengp;
private JLabel dob;
private JComboBox date;
private JComboBox month;
private JComboBox year;
private JLabel add;
private JTextArea tadd;
private JCheckBox term;
private JButton sub;
private JButton reset;
private JTextArea tout;
private JLabel  res;
private JTextArea resadd;
```

```
private String dates[]
        = { "1", "2", "3", "4", "5",
                "6", "7", "8", "9", "10",
                "11", "12", "13", "14", "15",
                "16", "17", "18", "19", "20",
                "21", "22", "23", "24", "25",
                "26", "27", "28", "29", "30",
                "31" };
private String months[]
        = { "Jan", "feb", "Mar", "Apr",
                "May", "Jun", "July", "Aug",
                "Sup", "Oct", "Nov", "Dec" };
private String years[]
        = { "1995", "1996", "1997", "1998",
                "1999", "2000", "2001", "2002",
                "2003", "2004", "2005", "2006",
                "2007", "2008", "2009", "2010",
                "2011", "2012", "2013", "2014",
                "2015", "2016", "2017", "2018",
                "2019" };


// constructor, to initialize the components
// with default values.
public MyFrame()
{
```

```
setTitle("Registration Form");
setBounds(300, 90, 900, 600);
setDefaultCloseOperation(EXIT_ON_CLOSE);
setResizable(false);

c = getContentPane();
c.setLayout(null);

title = new JLabel("Registration Form");
title.setFont(new Font("Arial", Font.PLAIN, 30));
title.setSize(300, 30);
title.setLocation(300, 30);
c.add(title);

name = new JLabel("Name");
name.setFont(new Font("Arial", Font.PLAIN, 20));
name.setSize(100, 20);
name.setLocation(100, 100);
c.add(name);

tname = new JTextField();
tname.setFont(new Font("Arial", Font.PLAIN, 15));
tname.setSize(190, 20);
tname.setLocation(200, 100);
c.add(tname);
```

```
mno = new JLabel("Mobile");
mno.setFont(new Font("Arial", Font.PLAIN, 20));
mno.setSize(100, 20);
mno.setLocation(100, 150);
c.add(mno);

tmno = new JTextField();
tmno.setFont(new Font("Arial", Font.PLAIN, 15));
tmno.setSize(150, 20);
tmno.setLocation(200, 150);
c.add(tmno);

gender = new JLabel("Gender");
gender.setFont(new Font("Arial", Font.PLAIN, 20));
gender.setSize(100, 20);
gender.setLocation(100, 200);
c.add(gender);

male = new JRadioButton("Male");
male.setFont(new Font("Arial", Font.PLAIN, 15));
male.setSelected(true);
male.setSize(75, 20);
male.setLocation(200, 200);
c.add(male);
```

```
female = new JRadioButton("Female");
female.setFont(new Font("Arial", Font.PLAIN, 15));
female.setSelected(false);
female.setSize(80, 20);
female.setLocation(275, 200);
c.add(female);

gengp = new ButtonGroup();
gengp.add(male);
gengp.add(female);

dob = new JLabel("DOB");
dob.setFont(new Font("Arial", Font.PLAIN, 20));
dob.setSize(100, 20);
dob.setLocation(100, 250);
c.add(dob);

date = new JComboBox(dates);
date.setFont(new Font("Arial", Font.PLAIN, 15));
date.setSize(50, 20);
date.setLocation(200, 250);
c.add(date);

month = new JComboBox(months);
```

```
month.setFont(new Font("Arial", Font.PLAIN, 15));
month.setSize(60, 20);
month.setLocation(250, 250);
c.add(month);

year = new JComboBox(years);
year.setFont(new Font("Arial", Font.PLAIN, 15));
year.setSize(60, 20);
year.setLocation(320, 250);
c.add(year);

add = new JLabel("Address");
add.setFont(new Font("Arial", Font.PLAIN, 20));
add.setSize(100, 20);
add.setLocation(100, 300);
c.add(add);

tadd = new JTextArea();
tadd.setFont(new Font("Arial", Font.PLAIN, 15));
tadd.setSize(200, 75);
tadd.setLocation(200, 300);
tadd.setLineWrap(true);
c.add(tadd);

term = new JCheckBox("Accept Terms And Conditions.");
```

```
term.setFont(new Font("Arial", Font.PLAIN, 15));
term.setSize(250, 20);
term.setLocation(150, 400);
c.add(term);

sub = new JButton("Submit");
sub.setFont(new Font("Arial", Font.PLAIN, 15));
sub.setSize(100, 20);
sub.setLocation(150, 450);
sub.addActionListener(this);
c.add(sub);

reset = new JButton("Reset");
reset.setFont(new Font("Arial", Font.PLAIN, 15));
reset.setSize(100, 20);
reset.setLocation(270, 450);
reset.addActionListener(this);
c.add(reset);

tout = new JTextArea();
tout.setFont(new Font("Arial", Font.PLAIN, 15));
tout.setSize(300, 400);
tout.setLocation(500, 100);
tout.setLineWrap(true);
tout.setEditable(false);
```

```
        c.add(tout);

        res = new JLabel("");
        res.setFont(new Font("Arial", Font.PLAIN, 20));
        res.setSize(500, 25);
        res.setLocation(100, 500);
        c.add(res);

        resadd = new JTextArea();
        resadd.setFont(new Font("Arial", Font.PLAIN, 15));
        resadd.setSize(200, 75);
        resadd.setLocation(580, 175);
        resadd.setLineWrap(true);
        c.add(resadd);

        setVisible(true);
}

// method actionPerformed()
// to get the action performed
// by the user and act accordingly
public void actionPerformed(ActionEvent e)
{
        if (e.getSource() == sub) {
                if (term.isSelected()) {
```

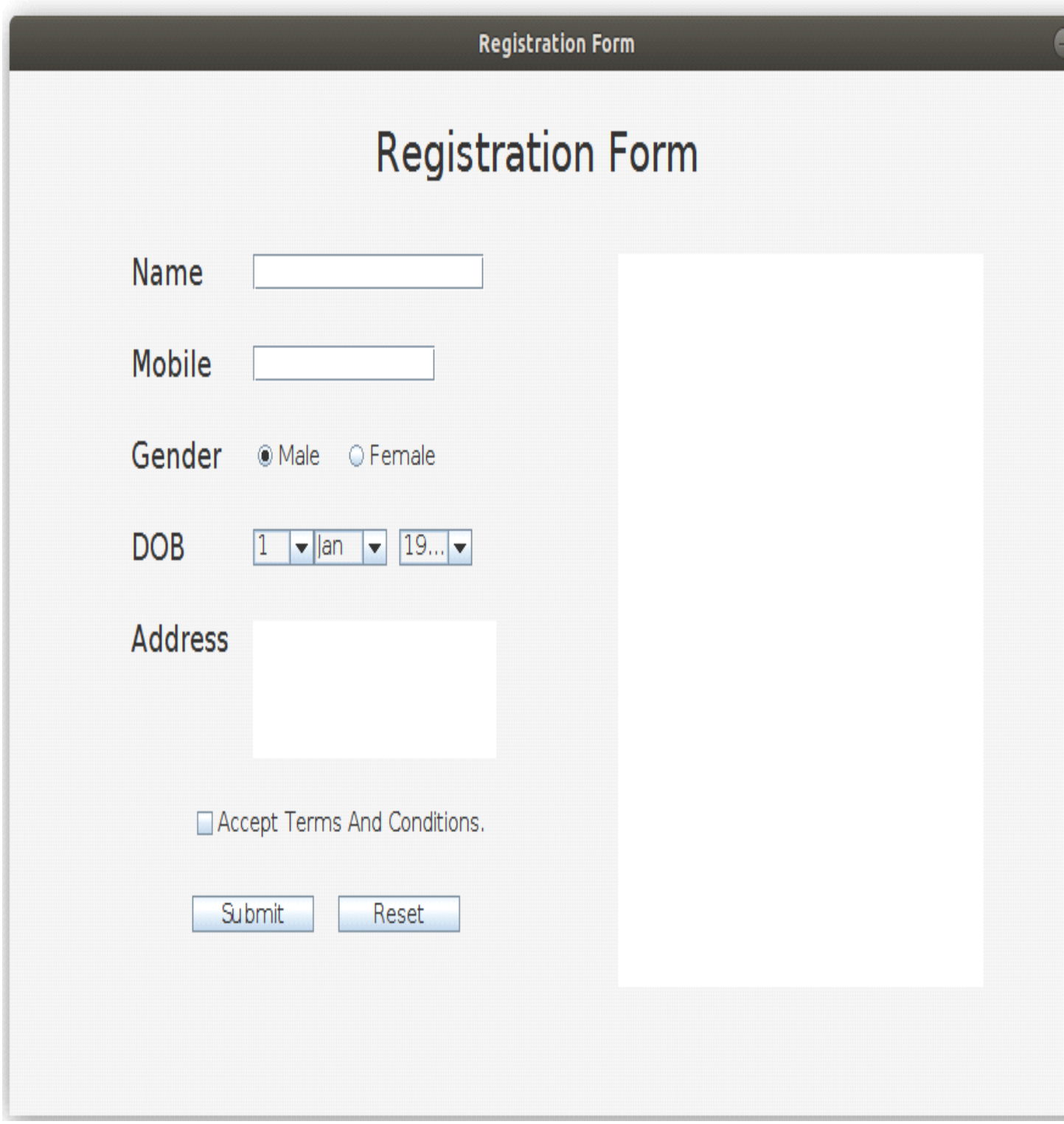
```
            String data1;
            String data
                    = "Name : "
                    + tname.getText() + "\n"
                    + "Mobile : "
                    + tmno.getText() + "\n";
            if (male.isSelected())
                    data1 = "Gender : Male"
                                    + "\n";
            else
                    data1 = "Gender : Female"
                                    + "\n";
            String data2
                    = "DOB : "
                    + (String)date.getSelectedItem()
                    + "/" + (String)month.getSelectedItem()
                    + "/" + (String)year.getSelectedItem()
                    + "\n";

            String data3 = "Address : " + tadd.getText();
            tout.setText(data + data1 + data2 + data3);
            tout.setEditable(false);
            res.setText("Registration Successfully..");
    }
    else {
```

```
                    tout.setText("");
                    resadd.setText("");
                    res.setText("Please accept the"
                                        + " terms & conditions..");
                }
            }

            else if (e.getSource() == reset) {
                String def = "";
                tname.setText(def);
                tadd.setText(def);
                tmno.setText(def);
                res.setText(def);
                tout.setText(def);
                term.setSelected(false);
                date.setSelectedIndex(0);
                month.setSelectedIndex(0);
                year.setSelectedIndex(0);
                resadd.setText(def);
            }
        }
}

// Driver Code
class Registration {
```

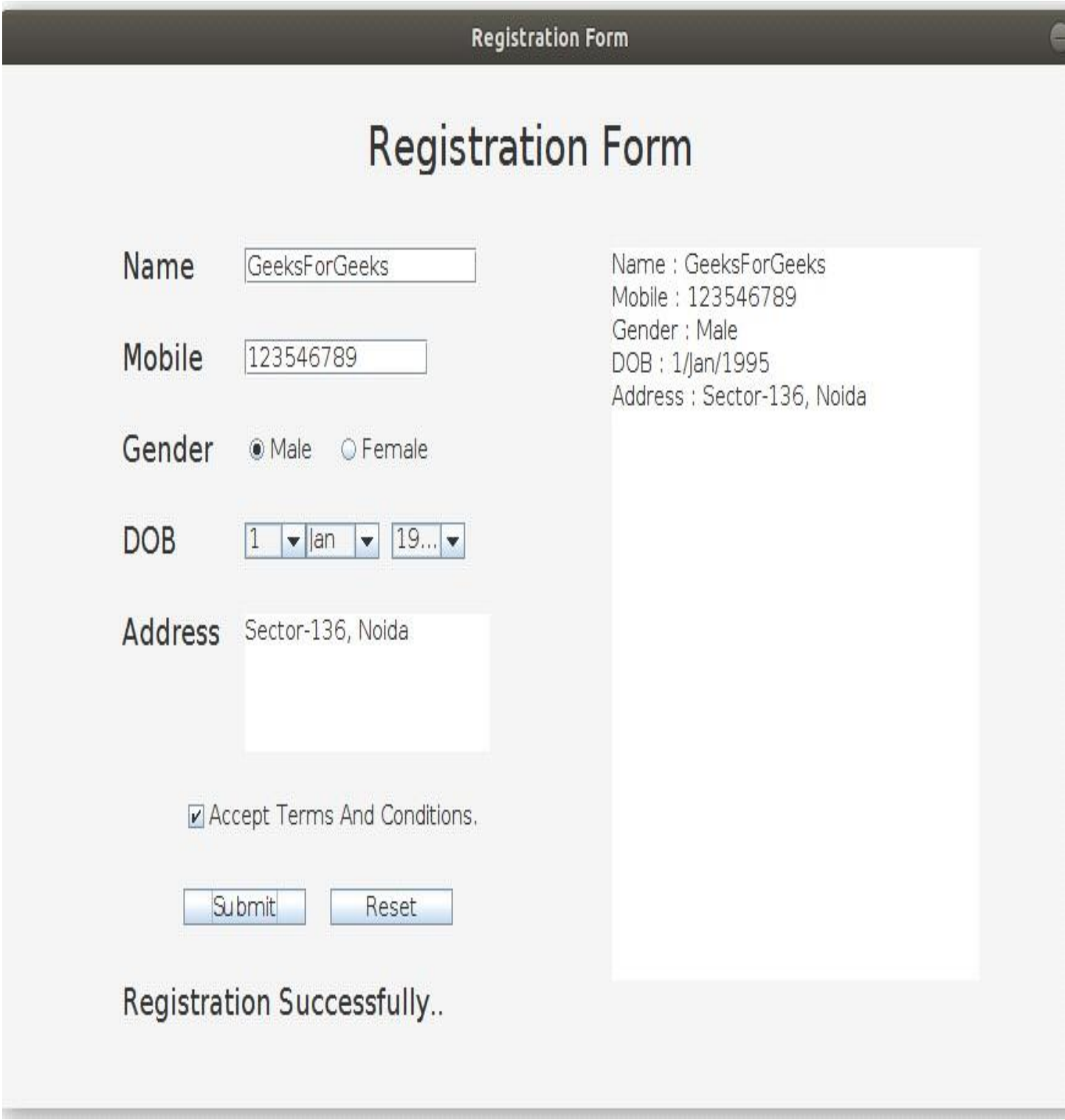
```
    public static void main(String[] args) throws Exception
    {
        MyFrame f = new MyFrame();
    }
}
```

5.RESULTS(OUTPUT):

BEFORE FILLING:



AFTER FILLING:



6.CONCLUSION:

At last we have got the output of this program using **NetBeans 12.5.**

7.REFERENCES:

- https://www.geeksforgeeks.org/java-swing-simple-user-registration-form/
- https://en.wikipedia.org/wiki/Java_applet
- https://connect2compute.wordpress.com/write-a-java-program-to-design-a-job-application-student-admission-form-and-store-the-values-in-a-file/

These are few websites we have refereed to complete this project.