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SWE1007 - PROGRAMMING IN JAVA J-COMPONENT

COURSE CODE:SWE1007

SLOT:B2+TB2

FACULTY:JOHN SINGH.K

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1.PROJECT TITLE : UNIVERSITY REGISTRATION SYSTEM

2.ABSTRACT:

University registration system is designed in order to meet the requirements of the students who pass their higher secondary and search the universities for their Post graduate programmes. This project aims to build a system that will enable a user(students) to search the appropriate universities,courses and publications of various universities. This will enable easy finding of the universities amongst the users and select the suitable university as per their interest. In this system the user is welcomed by the welcome page..He/she can sign in to the page and fill the suitable details in all the fields and save the information as a pdf (also other formats) in their PC/laptop.

3.Introduction:

4.MOTIVATION:

The "University Registration system" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing manual system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

AIM OF THE PROPOSED WORK:

The aim is to automate its existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage for good performance and better services for the clients(here students).

5.OBJECTIVE:

The main objective of the Project on University Registration system is to manage the details of the universities,courses offered by them,their fee category etc,. It manages all the information given by the student while searching for a particular university. The purpose of the project is to build an application program to reduce the manual work for managing the Admission departments in all the government universities and some deemed to be universities.

6.PROBLEM STATEMENT:

Most of the time, Students must visit universities or colleges to collect various information like Tuition fees, Term Schedule, etc. during their admission process or as per their daily needs. This process is very tedious and time consuming, also it requires manpower in providing required information to visitors.Hence to

overcome such situations the university registration system application is developed.

7.Existing system:

The existing system is within the confines of the details of the universities and their fee categories. This system maintains the information of the university and the student will have to manually visit the system. The process is time consuming and students often give up easily because of the daunting nature of the task.

8.Proposed Technique:

The design of the university registration system simplifies the maintenance of the information, accessible and efficient. Every data is going to be stored in the database which will be used to get instance details. The administrator maintains the system. Since this system is utilised as a tool to register form anywhere the system is more reliable to use. The records of each work will be secure as to access the information the user must have to provide the ID and password in the system. Printing the fee receipt (Last module) is also included in this project.

Welcome page welcomes the user to the application.

Login page enables the user to login using the mail id and password. If the user is new to the page he/she may register, fill in the appropriate details and login.

The programs next moves to the university page where the user fills in the details such as Name, Fathers name, mail-id, address, state, nationality, Grades secured in 10th, 12th, Course, University, Fee Category. By clicking the generate list the details are retrieved in a textarea and can be saved as a pdf by the option print.

The last page is the fee receipt page where the receipt is printed and saved as a pdf in the system.

Modules:

1.Welcome Page

2.Login

3. SignUp

4.University

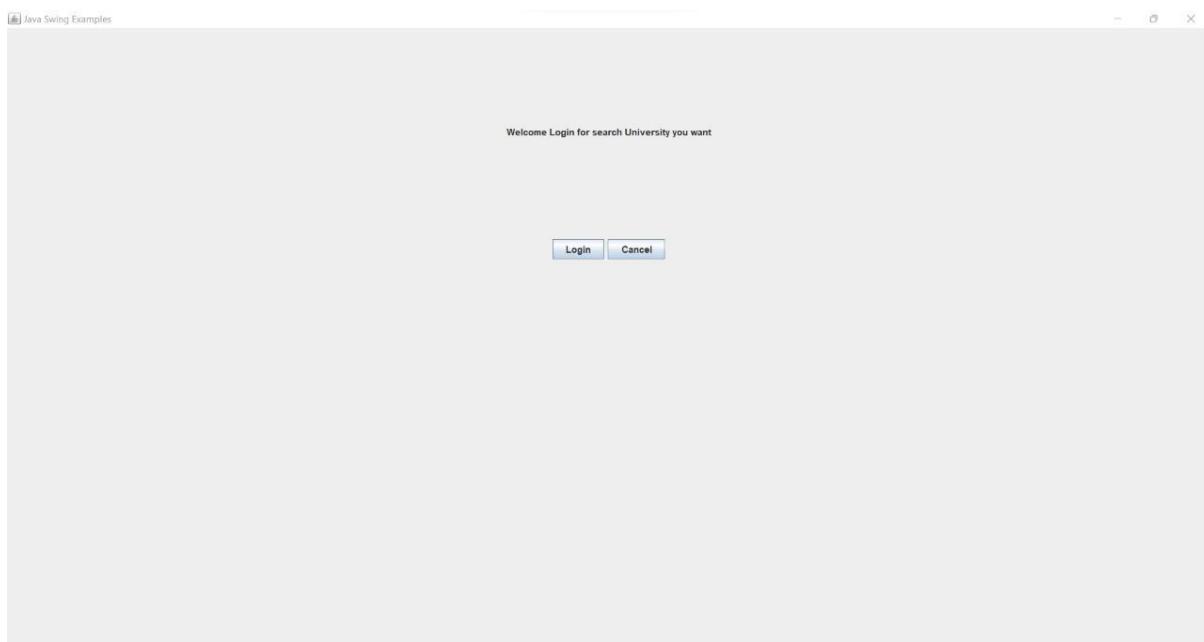
5.Confirmation.java

6. FeeReceipt

9.Results and Discussion:

SCREENSHOTS OF THE SYSTEM:

Welcome page:



Login page:

A screenshot of a Java Swing application window titled "Login Form". The window features a title bar with the text "Login Here". Below the title bar, there are two input fields: one for "Enter Email" and one for "Enter Password", both represented by white rectangles with black outlines. At the bottom of the window are two blue rectangular buttons labeled "Submit" and "New User".

Register if new user,

Registration Form

Register Here

Name:	<input type="text"/>
Email-ID:	<input type="text"/>
Create Password:	<input type="password"/>
Confirm Password:	<input type="password"/>
Country:	<input type="text"/>
State:	<input type="text"/>
Phone No:	<input type="text"/>

Register **Clear**

Registration Form

Register Here

Name:	<input type="text" value="Pradeepa"/>
Email-ID:	<input type="text" value="pradeepa@gmail.com"/>
Create Password:	<input type="password" value="****"/>
Confirm Password:	<input type="password" value="****"/>
Country:	<input type="text" value="INDIA"/>
State:	<input type="text" value="TAMIL NADU"/>
Phone No:	<input type="text" value="9486846598"/>

Register **Clear**

Message ×

i Welcome, Pradeepa Your account is sucessfully created

OK

University Module:

Information saved,

Search for University Details

Name of the Student:	Pradeepa	<input checked="" type="radio"/> Engineering <input type="radio"/> Medical	Groups Offered here are:
Name of the Father:	Anil	<input type="radio"/> Paramedical <input type="radio"/> Arts and Science	CSE
Email ID:	pradeepa@gmail.com	1st category	
Contact Number:	9486846588	2nd category	
Address:	No 11 24th East cross road Saidapet vellore-632008	3rd category	
Gender:	<input type="radio"/> Male <input checked="" type="radio"/> Female	Management	
Nationality:	INDIA	Fetch Data	
Year of passing 10th	2019	Generate List	
Year of passing 12th	2021	Reset	
Percentage in 10th:	95	Print	
Percentage in 12th:	97	RECEIPT	

Student Name: Pradeepa
Father's Name: Anil
Email ID: pradeepa@gmail.com
Contact Number: 9486846588
Wants to Join in Engineering
Wants to take: CSE
Had chosen: VIT
Had chosen: 1st category

Message

DATA SAVED SUCCESSFULLY

OK

Search for University Details

Name of the Student:	Pradeepa	<input checked="" type="radio"/> Engineering <input type="radio"/> Medical	Groups Offered here are:
Name of the Father:	Anil	<input type="radio"/> Paramedical <input type="radio"/> Arts and Science	CSE
Email ID:	pradeepa@gmail.com	1st category	
Contact Number:	9486846588	2nd category	
Address:	No 11 24th East cross road Saidapet vellore-632008	3rd category	
Gender:	<input type="radio"/> Male <input checked="" type="radio"/> Female	Management	
Nationality:	INDIA	Fetch Data	
Year of passing 10th	2019	Generate List	
Year of passing 12th	2021	Reset	
Percentage in 10th:	95	Print	
Percentage in 12th:	97	RECEIPT	

Student Name: Pradeepa
Father's Name: Anil
Email ID: pradeepa@gmail.com
Contact Number: 9486846588
Wants to Join in Engineering
Wants to take: CSE
Had chosen: VIT
Had chosen: 1st category

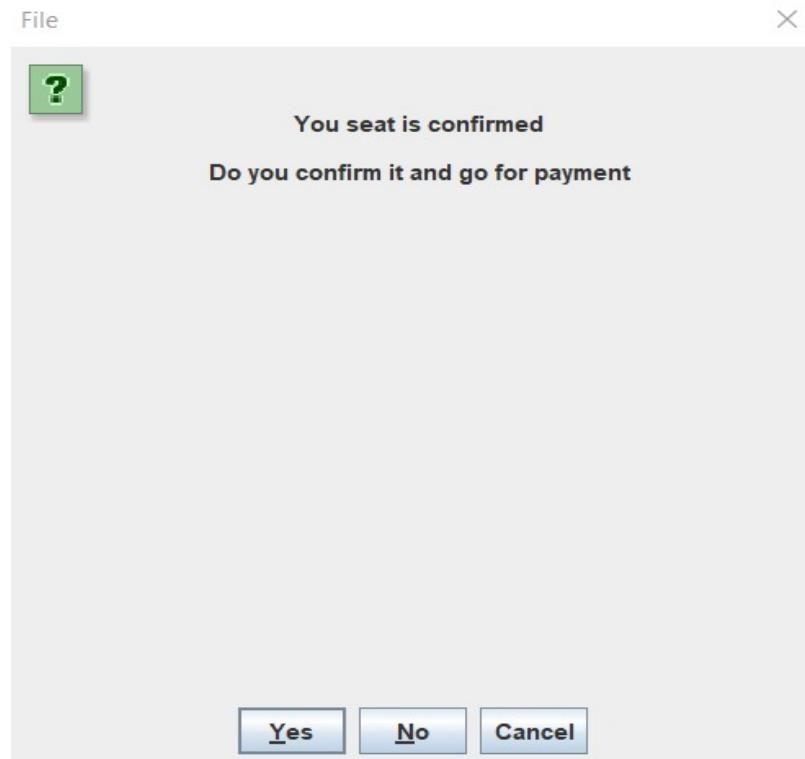
Message

Confirmed detail

OK

Confirmation:

By clicking yes the program moves on to the Receipt creation page.



Fee receipt:



A screenshot of a "FEES RECEIPT" generation form. The form fields include:

Student name :	Pradeepa
Father name :	Arul
Mother name :	Vasanthi
Enter address :	No,11,East road,saidapet,vellore.
Date of joining :	11.08.2022
Enter class :	1
Father's ph:	8968595040
Mother's ph:	9506950490
Student's ph:	8695049400
Fee amount:	1,20,000

The right side of the form shows the receipt details:

FEE RECEIPT

Sat Nov 19 19:07:34 IST 2022 Receipt Number : 2
Student name : Pradeepa
Father name : Arul
Mother name : Vasanthi
Address : No,11,East road,saidapet,vellore.
Date of admission: 11.08.2022
Class : 1
Father's ph : 8968595040
Mother's ph: 9506950490
Student's ph 8695049400
Fee Amount : 1,20,000

SIGNATURE

At the bottom are three buttons: "GENERATE RECEIPT", "RESET", and "PRINT RECEIPT".

The print receipt option saves the info filled as a pdf in the system.

FEE RECEIPT

Sat Nov 19 19:07:34 IST 2022 Receipt Number : 2

Student name : Pradeepa

Father name : Arul

Mother name : Vasanthi

Address : No,11,East road,saidapet,vellore.

Date of admission: 11.08.2022

Class : 1

Father's ph : 8968595040

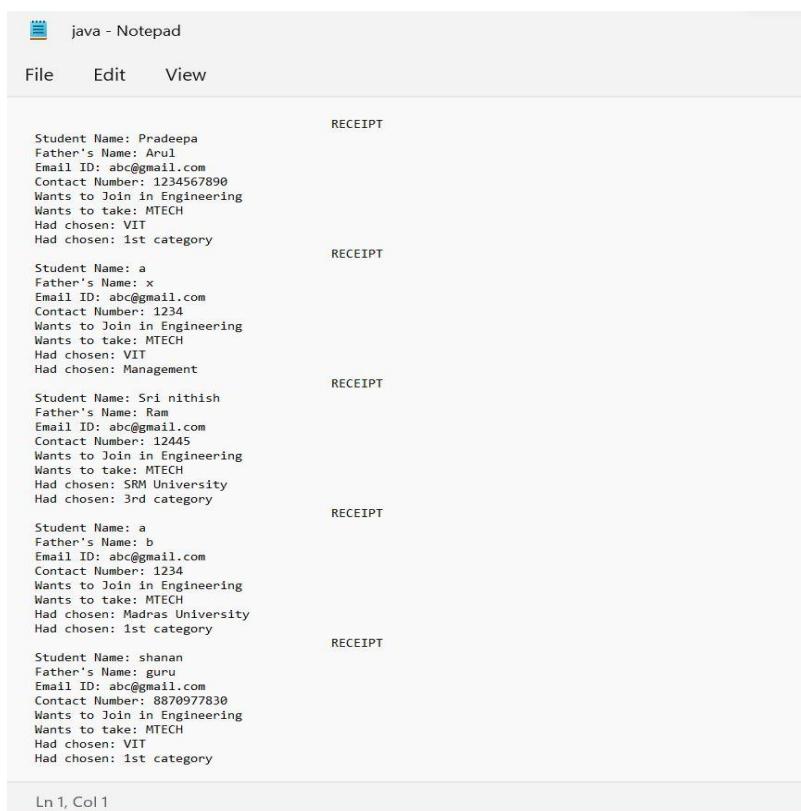
Mother's ph9506950490

Student's ph 8695049400

Fee Amount : 1,20,000

SIGNATURE

By clicking the fetch data option in the university page the informations filled in the university page gets saved in the notepad.



java - Notepad

File Edit View

RECEIPT

Student Name: Pradeepa
Father's Name: Arul
Email ID: abc@gmail.com
Contact Number: 1234567890
Wants to Join in Engineering
Wants to take: MTECH
Had chosen: VIT
Had chosen: 1st category

RECEIPT

Student Name: a
Father's Name: x
Email ID: abc@gmail.com
Contact Number: 1234
Wants to Join in Engineering
Wants to take: MTECH
Had chosen: VIT
Had chosen: Management

RECEIPT

Student Name: Sri nithish
Father's Name: Ram
Email ID: abc@gmail.com
Contact Number: 12445
Wants to Join in Engineering
Wants to take: MTECH
Had chosen: SRM University
Had chosen: 3rd category

RECEIPT

Student Name: a
Father's Name: b
Email ID: abc@gmail.com
Contact Number: 1234
Wants to Join in Engineering
Wants to take: MTECH
Had chosen: Madras University
Had chosen: 1st category

RECEIPT

Student Name: shanan
Father's Name: guru
Email ID: abc@gmail.com
Contact Number: 8870977830
Wants to Join in Engineering
Wants to take: MTECH
Had chosen: VIT
Had chosen: 1st category

Ln 1, Col 1

Database:

```
mysql> desc signup;
```

Field	Type	Null	Key	Default	Extra
name	varchar(30)	YES		NULL	
email	varchar(50)	YES		NULL	
pass	varchar(20)	YES		NULL	
country	varchar(20)	YES		NULL	
state	varchar(20)	YES		NULL	
mobile	int	YES		NULL	

6 rows in set (0.01 sec)

```
mysql> desc login;
```

Field	Type	Null	Key	Default	Extra
email	varchar(50)	YES		NULL	
pass	varchar(20)	YES		NULL	

2 rows in set (0.01 sec)

```
mysql> desc university;
```

Field	Type	Null	Key	Default	Extra
Student_name	varchar(30)	YES		NULL	
Father_name	varchar(30)	YES		NULL	
Email	varchar(50)	YES		NULL	
Contact_No	int	YES		NULL	
Stream	varchar(20)	YES		NULL	
course	varchar(20)	YES		NULL	
Institute	varchar(30)	YES		NULL	
Category	varchar(20)	YES		NULL	

8 rows in set (0.00 sec)

```

mysql> desc Receipt;
+-----+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Student | varchar(30) | YES |   | NULL |   |
| Father | varchar(30) | YES |   | NULL |   |
| Mother | varchar(30) | YES |   | NULL |   |
| Address | varchar(50) | YES |   | NULL |   |
| Date_of_admn | date | YES |   | NULL |   |
| Class | varchar(10) | YES |   | NULL |   |
| F_phone | int | YES |   | NULL |   |
| M_phone | int | YES |   | NULL |   |
| S_phone | int | YES |   | NULL |   |
| Fee_amt | int | YES |   | NULL |   |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

mysql> use engine;
Database changed
mysql> select*from signup;
+-----+-----+-----+-----+-----+-----+
| name | email | pass | country | state | mobile |
+-----+-----+-----+-----+-----+-----+
| abc | abc@gmail.com | 12 | india | tn | 12345 |
| Sri nithish | sri@gmail.com | 123 | india | tamil nadu | 1223589 |
| shan | san@gmail.com | 15 | ind | ind | 948684 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.04 sec)

mysql> select*from login;
+-----+-----+
| email | pass |
+-----+-----+
| abc@gmail.com | 12 |
+-----+-----+
1 row in set (0.01 sec)

```

Sample source code:

Welcome.java:

```

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class Welcome {
    private JFrame mainFrame;
    private JLabel headerLabel;

```

```
private JLabel statusBar;  
private JPanel controlPanel;  
  
public Welcome(){  
    prepareGUI();  
}  
  
public static void main(String[] args){  
    Welcome wel = new Welcome();  
    wel.showButtonDemo();  
}  
  
private void prepareGUI(){  
    mainFrame = new JFrame("Java Swing Examples");  
    mainFrame.setSize(400,300);  
    mainFrame.setLayout(new GridLayout(3, 1));  
  
    mainFrame.addWindowListener(new WindowAdapter() {  
        public void windowClosing(WindowEvent windowEvent){  
            System.exit(0);  
        }  
    });  
  
    headerLabel = new JLabel("", JLabel.CENTER);  
    statusBar = new JLabel("",JLabel.CENTER);  
    statusBar.setSize(350,100);  
  
    controlPanel = new JPanel();  
    controlPanel.setLayout(new FlowLayout());  
  
    mainFrame.add(headerLabel);
```

```
mainFrame.add(controlPanel);

mainFrame.add(statusLabel);

mainFrame.setVisible(true);

}

/*private static ImageIcon createImageIcon(String path, String description) {

java.net.URL imgURL = Welcome.class.getResource(path);

if (imgURL != null) {

return new ImageIcon(imgURL, description);

} else {

System.err.println("Couldn't find file: " + path);

return null;

}

} */

private void showButtonDemo(){

headerLabel.setText("Welcome Login for search University you want");

JButton lButton = new JButton("Login");

JButton cancelButton = new JButton("Cancel");

cancelButton.setHorizontalTextPosition(SwingConstants.LEFT);

lButton.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

new Login1().setVisible(true);

mainFrame.dispose();

}

});

cancelButton.addActionListener(new ActionListener() {
```

```
public void actionPerformed(ActionEvent e) {  
    mainFrame.dispose();  
    //statusLabel.setText("Cancel Button clicked.");  
}  
});  
  
controlPanel.add(lButton);  
controlPanel.add(cancelButton);  
  
mainFrame.setVisible(true);  
}  
}
```

Login1.java:

```
import javax.swing.*;  
import java.awt.*;  
import java.awt.event.*;  
import java.io.File;  
import java.sql.*;  
import java.io.FileNotFoundException;  
import java.io.FileReader;  
import java.io.FileWriter;  
import java.io.IOException;  
import java.io.RandomAccessFile;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.SQLException;  
  
public class Login1 extends JFrame implements ActionListener {
```

```
JLabel l1, l2, l3; //label for email and password
```

```
JTextField tf1; // email field
```

```
JButton btn1,btn2; // login button
```

```
JPasswordField p1; // password field
```

```
File f = new File("C:\\Files"); //file path
```

```
int ln;
```

```
void createFolder() {
```

```
if (!f.exists()) {
```

```
f.mkdirs();
```

```
}
```

```
}
```

```
//check file is exist or not
```

```
void readfile() {
```

```
try {
```

```
FileReader fr = new FileReader(f + "\\logins.txt");
```

```
} catch (FileNotFoundException ex) {
```

```
try {
```

```
FileWriter fw = new FileWriter(f + "\\logins.txt");
```

```
} catch (IOException ex1) {
```

```
}
```

```
}
```

```
}
```

```
// login logic
```

```
void logic(String usr, String pswd) {
```

```
try {
```

```
RandomAccessFile raf = new RandomAccessFile(f + "\\logins.txt", "rw");
for (int i = 0; i < ln; i += 7) {

    String forUser = raf.readLine().substring(6);
    String forPswd = raf.readLine().substring(9);
    if (usr.equals(forUser) & pswd.equals(forPswd)) {
        JOptionPane.showMessageDialog(null, "Login Successfully!!!");
        System.out.println("file exists!");
        university uni=new university();
        uni.setVisible(true);
        break;
    } else {
        JOptionPane.showMessageDialog(null, "Incorrect username/password");
        break;
    }
}

} catch (FileNotFoundException ex) {
} catch (IOException ex) {
}

}

void countLines() {
try {
ln = 0;
RandomAccessFile raf = new RandomAccessFile(f + "\\logins.txt", "rw");
for (int i = 0; raf.readLine() != null; i++) {
ln++;
}
} catch (FileNotFoundException ex) {
} catch (IOException ex) {
```

```
}

}

Login1() {

setTitle("Login Form ");

setVisible(true);

setSize(800, 800);

setLayout(null);

setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

l1 = new JLabel("Login Here");

l1.setForeground(Color.blue);

l1.setFont(new Font("Serif", Font.BOLD, 20));

l2 = new JLabel("Enter Email:");

l3 = new JLabel("Enter Password:");

tf1 = new JTextField();

p1 = new JPasswordField();
```

```
btn1 = new JButton("Submit");
```

```
btn2 = new JButton("New User");
```

```
l1.setBounds(100, 30, 400, 30);
```

```
l2.setBounds(80, 70, 200, 30);
```

```
l3.setBounds(80, 110, 200, 30);
```

```
tf1.setBounds(300, 70, 200, 30);
```

```
p1.setBounds(300, 110, 200, 30);
```

```
btn1.setBounds(150, 160, 100, 30);
```

```
btn2.setBounds(150, 200, 100, 30);
```

```
add(l1);
```

```
add(l2);
```

```
add(tf1);
```

```
add(l3);
```

```
add(p1);
```

```
add(btn1);
```

```
add(btn2);

btn1.addActionListener(this);

btn2.addActionListener(this);

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==btn1)

{

try

{



Class.forName("com.mysql.jdbc.Driver").newInstance();

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/engine?user=root&password=Surya!2004");

Statement st=con.createStatement();

st.executeUpdate("insert into login values(\""+tf1.getText()+"','"+p1.getText()+"")");

JOptionPane.showConfirmDialog(null,"Your Data Has been

Inserted","Result",JOptionPane.DEFAULT_OPTION,JOptionPane.PLAIN_MESSAGE);

st.close();

con.close();

}

catch(Exception e1)

{

System.out.println("Exceptin:"+e1);

}
```

```
new university().setVisible(true);
dispose();}
else if(e.getSource()==btn2)
{ new SignUp().setVisible(true);
dispose();}

}
```

```
public void showData() {
```

```
JFrame f1 = new JFrame();
```

```
JLabel l, l0;
```

```
String str1 = tf1.getText();
```

```
char[] p = p1.getPassword();
```

```
String str2 = new String(p);
```

```
try {
```

```
createFolder();
```

```
//insert();
```

```
readFile();
```

```
countLines();
```

```
logic(str1, str2);
```

```
} catch (Exception ex) {
```

```
System.out.println(ex);

}

}

public static void main(String arr[]) {

String url = "jdbc:mysql://localhost:3306/engine";
String username = "root";
String password="Surya!2004";

try{
    Connection connection= DriverManager.getConnection(url,username,password);

}
catch (SQLException e){
    System.out.println("ERROR");
    e.printStackTrace();
}

new Login1();

}

}
```

SignUp.java:

```
import javax.swing.*;
import java.awt.*;
import java.awt.Image;
import java.awt.event.*;
```

```
import java.awt.print.*;
import java.awt.Color;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.io.RandomAccessFile;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
import java.sql.*;

public class SignUp extends JFrame implements ActionListener {
    JLabel l1, l2, l3, l4, l5, l6, l7, l8; //all labels for textField
    JTextField tf1, tf2, tf5, tf6, tf7; // others fields
    JButton btn1, btn2; //buttons for signup and clear
    JPasswordField p1, p2; // password fields
    File f = new File("C:\\\\Files");
    int ln;

    void createFolder(){
```

```
if(!f.exists()){
    f.mkdirs();
}

}

void readFile(){
try {
    FileReader fr = new FileReader(f+"\\logins.txt");
    //System.out.println("file exists!");
} catch (FileNotFoundException ex) {
    try {
        FileWriter fw = new FileWriter(f+"\\logins.txt");
        //System.out.println("File created");
    } catch (IOException ex1) {
        }
    }
}

/*void insert()
{
try
{
    Class.forName("com.mysql.jdbc.Driver").newInstance();
    Connection con =
    DriverManager.getConnection("jdbc:mysql://localhost:3306/engine?user=root&password=Surya!2004");
    Statement st=con.createStatement();
}
```

```
st.executeUpdate("insert into signup  
values("+tf1.getText()+"','"+tf2.getText()+"','"+p1.getText()+"','"+tf5.getText()+"','"+tf6.get  
Text()+"','"+tf7.getText()+"");  
  
JOptionPane.showConfirmDialog(null,"Your Data Has been  
Inserted","Result",JOptionPane.DEFAULT_OPTION,JOptionPane.PLAIN_MESSAGE);  
  
st.close();  
  
con.close();  
  
}  
  
  
catch(Exception e1)  
{  
  
System.out.println("Exceptin:"+e1);  
  
}  
  
}  
  
*/
```

```
void addData(String usr,String pswd,String mail,String con,String state,String Phn){  
  
try {  
  
RandomAccessFile raf = new RandomAccessFile(f+"\logins.txt", "rw");  
  
for(int i=0;i<ln;i++){  
  
raf.readLine();  
  
}  
  
if(ln>0){  
  
raf.writeBytes("\r\n");  
  
raf.writeBytes("\r\n");  
  
}  
  
raf.writeBytes("Email:"+mail+ "\r\n");  
  
raf.writeBytes("Password:"+pswd+ "\r\n");  
  
raf.writeBytes("Username:"+usr+ "\r\n");
```

```
raf.writeBytes("Country:"+con+ "\r\n");
raf.writeBytes("State:"+state+ "\r\n");
raf.writeBytes("Phone No:"+Phn);
```

```
} catch (FileNotFoundException ex) {
} catch (IOException ex) {
}
}
```

```
SignUp()
{
setBackground(Color.pink);
setVisible(true);
setSize(700, 700);
setLayout(null);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setTitle("Registration Form");
l1 = new JLabel("Register Here");
l1.setForeground(Color.blue);
l1.setFont(new Font("Serif", Font.BOLD, 20));
l2 = new JLabel("Name:");
l3 = new JLabel("Email-ID:");
l4 = new JLabel("Create Passowrd:");
l5 = new JLabel("Confirm Password:");
l6 = new JLabel("Country:");
l7 = new JLabel("State:");
l8 = new JLabel("Phone No:");
```

```
tf1 = new JTextField();
tf2 = new JTextField();
p1 = new JPasswordField();
p2 = new JPasswordField();
tf5 = new JTextField();
tf6 = new JTextField();
tf7 = new JTextField();
btn1 = new JButton("Register");
btn2 = new JButton("Clear");
btn1.addActionListener(this);
btn2.addActionListener(this);
l1.setBounds(100, 30, 400, 30);
l2.setBounds(50, 70, 200, 30);
l3.setBounds(50, 110, 200, 30);
l4.setBounds(50, 150, 200, 30);
l5.setBounds(50, 190, 200, 30);
l6.setBounds(50, 230, 200, 30);
l7.setBounds(50, 270, 200, 30);
l8.setBounds(50, 310, 200, 30);
tf1.setBounds(200, 70, 200, 30);
tf2.setBounds(200, 110, 200, 30);
p1.setBounds(200, 150, 200, 30);
p2.setBounds(200, 190, 200, 30);
tf5.setBounds(200, 230, 200, 30);
tf6.setBounds(200, 270, 200, 30);
tf7.setBounds(200, 310, 200, 30);
btn1.setBounds(30, 350, 100, 30);
btn2.setBounds(150, 350, 100, 30);
```

```
add(l1);
add(l2);
add(tf1);
add(l3);
add(tf2);
add(l4);
add(p1);
add(l5);
add(p2);
add(l6);
add(tf5);
add(l7);
add(tf6);
add(l8);
add(tf7);
add(btn1);
add(btn2);
}
```

```
public void actionPerformed(ActionEvent e)
{
if (e.getSource() == btn1)
{
int x = 0;
String s1 = tf1.getText();
String s2 = tf2.getText();
String s3 = new String(p1.getPassword());
String s4 = new String(p2.getPassword());
```

```
String s8 = new String(s3);

String s9 = new String(s4);

String s5 = tf5.getText();

String s6 = tf6.getText();

String s7 = tf7.getText();

if (s8.equals(s9))

{

try

{



Class.forName("com.mysql.jdbc.Driver").newInstance();

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/engine?user=root&password=Surya!2004");

Statement st=con.createStatement();

st.executeUpdate("insert into signup

values(""+tf1.getText()+"','"+tf2.getText()+"','"+p1.getText()+"','"+tf5.getText()+"','"+tf6.getText()+"','"+tf7.getText()+"')");

JOptionPane.showConfirmDialog(null,"Your Data Has been

Inserted","Result",JOptionPane.DEFAULT_OPTION,JOptionPane.PLAIN_MESSAGE);

st.close();

con.close();

}

catch(Exception e1)

{

System.out.println("Exceptin:"+e1);

}
```

```
JOptionPane.showMessageDialog(btn1, "Welcome, " + s1 + " Your account is sucessfully  
created");  
  
new university().setVisible(true);  
  
dispose();  
  
}  
  
  
else  
{  
  
JOptionPane.showMessageDialog(btn1, "Invalid username/password");  
  
}  
  
}  
  
}  
  
}  
  
public static void main(String args[])  
{  
  
String url = "jdbc:mysql://localhost:3306/engine";  
  
String username = "root";  
  
String password="Surya!2004";  
  
  
try{  
  
Connection connection= DriverManager.getConnection(url,username,password);  
  
}  
  
catch (SQLException e){  
  
System.out.println("ERROR");  
  
e.printStackTrace();  
  
}
```

```
new SignUp();
```

```
}
```

```
}
```

University.java:

```
import javax.swing.*;  
import java.awt.*;  
import javax.imageio.ImageIO;  
import java.awt.Image;  
import java.awt.event.*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
import java.awt.print.*;  
import java.awt.Color;  
import java.awt.Font;  
import javax.swing.JButton;  
import javax.swing.JFrame;  
import javax.swing.JLabel;  
import javax.swing.JOptionPane;  
import javax.swing.JPasswordField;  
import javax.swing.JTextField;  
import java.sql.*;  
//import javafx.print.Printer;  
import java.io.*;  
import java.io.File;  
import java.io.FileNotFoundException;  
import java.io.FileReader;  
import java.io.FileWriter;
```

```
import java.io.RandomAccessFile;  
import java.io.IOException;  
  
// Creating the fee class  
public class university extends Frame {  
  
JLabel l1, l2, l3, l4,l5, l6, l7, l8,l9, l10, l12, l13,l14, l11, l15;  
  
JTextField tf1, tf2, tf3,tf4, tf5, tf6,tf7, tf8, tf9,tf10;  
  
JTextArea area2, area1;  
  
JRadioButton rb1, rb2, rb3,rb4, rb5, rb6,rb7;  
  
JFileChooser f1;  
  
// Default constructor to  
// initialize the parameters  
university()  
{  
  
l1 = new JLabel("Search for University Details");  
l1.setBounds(550, 100, 250, 20);  
  
l2 = new JLabel("Name of the Student:");  
l2.setBounds(50, 150, 250, 20);  
tf1 = new JTextField();  
tf1.setBounds(250, 150, 250, 20);
```

```
l3 = new JLabel("Name of the Father:");
l3.setBounds(50, 200, 250, 20);
tf2 = new JTextField();
tf2.setBounds(250, 200, 250, 20);
l5 = new JLabel("Email ID:");
l5.setBounds(50, 250, 250, 20);
tf4 = new JTextField();
tf4.setBounds(250, 250, 250, 20);
l6 = new JLabel("Contact Number:");
l6.setBounds(50, 300, 250, 20);
tf5 = new JTextField();
tf5.setBounds(250, 300, 250, 20);
l7 = new JLabel("Address:");
l7.setBounds(50, 350, 250, 20);
area1 = new JTextArea();
area1.setBounds(250, 350, 250, 50);
l9 = new JLabel("Gender:");
l9.setBounds(50, 420, 250, 20);
JRadioButton r5= new JRadioButton(" Male");
JRadioButton r6= new JRadioButton(" Female");
r5.setBounds(250, 420, 100, 30);
r6.setBounds(350, 420, 100, 30);

ButtonGroup bg = new ButtonGroup();
bg.add(r5);
bg.add(r6);
l10 = new JLabel("Nationality:");
l10.setBounds(50, 470, 250, 20);
```

```
tf6 = new JTextField();
tf6.setBounds(250, 470, 250, 20);

l11 = new JLabel("Year of passing 10th");
l11.setBounds(50, 520, 250, 20);

String language[] = { "2021", "2020", "2019", "2018", "2017", "2016", "2015", "2014",
"2013", "2012", "2011", "2010", "2009", "2008", "2007" };

final JComboBox cb1 = new JComboBox(language);
cb1.setBounds(250, 520, 90, 20);

l12 = new JLabel("Year of passing 12th");
l12.setBounds(50, 550, 250, 20);

String languagess[] = { "2021", "2020", "2019", "2018", "2017", "2016", "2015", "2014",
"2013", "2012", "2011", "2010", "2009", "2008", "2007" };

final JComboBox cb2 = new JComboBox(languagess);
cb2.setBounds(250, 550, 90, 20);

l13 = new JLabel("Percentage in 10th:");
l13.setBounds(50, 600, 250, 20);

tf7 = new JTextField();
tf7.setBounds(250, 600, 200, 20);

l14 = new JLabel("Percentage in 12th:");
l14.setBounds(50, 640, 250, 20);

tf8 = new JTextField();
tf8.setBounds(250, 640, 200, 20);

ImageIcon i2 = new ImageIcon("2.png");

JLabel l15 = new JLabel("", i2, JLabel.CENTER);
l15.setBounds(900, 50, 600, 200);

l18 = new JLabel("Groups Offered here are:");
l18.setBounds(800, 150, 3050, 20);

rb1 = new JRadioButton("Engineering");
rb1.setBounds(550, 150, 100, 30);
```

```
rb2 = new JRadioButton("Medical");
rb2.setBounds(650, 150, 100, 30);
ButtonGroup bg1 = new ButtonGroup();
bg1.add(rb1);
bg1.add(rb2);

rb3 = new JRadioButton("Paramedical");
rb3.setBounds(550, 200, 100, 30);
rb4 = new JRadioButton("Arts and Science");
rb4.setBounds(650, 200, 145, 30);

ButtonGroup bg2 = new ButtonGroup();
bg2.add(rb3);
bg2.add(rb4);

String languages[] = { "CSE", "EEE", "MTECH", "MBBS", "BDS", "Surgen", "Pharmacy",
"Labtechnician", "Physiotherapist", "BA", "BSC", "B.com", "M.com" };

final JComboBox cb= new JComboBox(languages);
cb.setBounds(800, 200, 150, 20);

final JLabel label= new JLabel();
label.setBounds(600, 430, 500, 30);

JButton b = new JButton("Fetch Data");
b.setBounds(1000, 300, 180, 30);

final DefaultListModel<String> li1= new DefaultListModel<>();

li1.addElement("Anna University");
li1.addElement("Madras University");
li1.addElement("IIT");
li1.addElement("NIT");
li1.addElement("VIT");
li1.addElement("SRM University");
```

```
li1.addElement("Alagappa University");
li1.addElement("Annamalai University");
li1.addElement("Bharathiar University");
final JList<String> list1= new JList<>(li1);
list1.setBounds(600, 250, 150, 175);
DefaultListModel<String> li2= new DefaultListModel<>();
li2.addElement("1st category");
li2.addElement("2nd category");
li2.addElement("3rd category");
li2.addElement("Management");
//li2.addElement("bus(40, 000)");
final JList<String> list2= new JList<>(li2);
list2.setBounds(800, 250, 150, 120);
JButton Receipt= new JButton("Generate List");
Receipt.setBounds(600, 460, 150, 30);
JButton b2 = new JButton("Reset");
b2.setBounds(750, 460, 150, 30);
JButton Print = new JButton("Print");
Print.setBounds(900, 460, 150, 30);
area2 = new JTextArea();
area2.setBounds(600, 500, 400, 170);

/*setLayout(new BorderLayout());
JLabel background=new JLabel(new ImageIcon("C:\\Users\\Pradeepa
A\\Desktop\\javapic.png"));
add(background);
background.setLayout(new FlowLayout());
setSize(2000,2000);
```

```
setLocationRelativeTo(null);

//setDefaultCloseOperation(EXIT_ON_CLOSE);*/



add(l1);
add(l2);
add(l3);
add(l5);
add(l6);
add(l7);
add(l8);
add(l9);
add(l10);
add(l11);
add(l12);
add(l13);
add(l14);
add(tf1);
add(tf2);
add(tf4);
add(tf5);
add(tf6);
add(tf7);
add(tf8);
add(area1);
add(area2);
add(l15);
add(rb1);
add(rb2);
```

```
add(rb3);
add(rb4);
add(r5);
add(r6);
add(cb);
add(cb1);
add(cb2);
add(list1);
add(list2);
add(b);
add(label);
add(Receipt);
add(b2);
add(Print);
```

```
b.addActionListener(new ActionListener() {

    // Method to display the data
    // entered in the text fields

    public void actionPerformed(ActionEvent e){
        if(e.getSource()==b)
        {
            JOptionPane.showMessageDialog(b, "Confirmed detail");
            FetchData stu = new FetchData();
            dispose();
            //stu.setVisible(true);
            //break;
        }
    }
})
```

```
else
{
    JOptionPane.showMessageDialog(b, "Not yet Confirmed");
    //break;
}
}

});

// Reset the text fields

b2.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e)
    {
        area2.setText("");
        area1.setText(" ");
        tf1.setText("");
        tf2.setText("");
        //tf3.setText("");
        tf4.setText("");
        tf5.setText("");
        tf6.setText(" ");
    }
});

// Implementing the Print action

Print.addActionListener(
    new ActionListener() {
        public void actionPerformed(ActionEvent e)
        {

```

```
try {
    area2.print();
}
catch (java.awt.print.PrinterException a) {
    System.err.format("No Printer Found",a.getMessage());
}
}
});

// Generating the receipt
Receipt.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e)
{
    area2.setText("          " + " RECEIPT " +"\\n");
    area2.setText(area2.getText()+ " Student Name: "+ tf1.getText()+"\\n");
    area2.setText(area2.getText()+ " Father's Name: "+ tf2.getText()+"\\n");
    //area2.setText(area2.getText()+ "RollNumber: "+ tf3.getText()+"\\n");
    area2.setText(area2.getText()+ " Email ID: "+ tf4.getText()+"\\n");
    area2.setText(area2.getText()+ " Contact Number: "+ tf5.getText()+"\\n");
    //area2.setText(area2.getText()+ " Address: "area1.getText()+"\\n");

    if (rb1.isSelected()) {
        area2.setText(area2.getText()+ " Wants to Join in "+ "Engineering \\n");
    }
    if (rb2.isSelected()) {
        area2.setText(area2.getText()+ " Wants to Join in "+ "Medical \\n");
    }
}
```

```
}

if (rb3.isSelected()) {
    area2.setText(area2.getText() + " Wants to Join in " + "Paramedical \n");
}

if (rb4.isSelected()) {
    area2.setText(area2.getText() + "Wants to Join in " + "Arts and Science \n");
}

area2.setText(area2.getText() + " Wants to take: " + cb.getSelectedItem().toString() + "\n");
area2.setText(area2.getText() + " Had chosen: " + list1.getSelectedValue().toString() + "\n");
area2.setText(area2.getText() + " Had chosen: " + list2.getSelectedValue().toString() + "\n");

if (e.getSource() == Receipt) {
    try {
        FileWriter fw = new FileWriter("java.txt", true);
        fw.write(area2.getText());
        fw.close();
        //insert();
    }
    catch (Exception ae) {
        System.out.println(ae);
    }
}

JOptionPane.showMessageDialog(area2, "DATA SAVED SUCCESSFULLY");

};

});

addWindowListener(new WindowAdapter() {
```

```
public void windowClosing(WindowEvent we)
{
    System.exit(0);
}

});

setSize(2000, 2000);
setLayout(null);
setVisible(true);
setBackground(Color.pink);

}

public static void main(String[] args)
{
    new university();
}

}
```

Confirmation.java:

```
import java.awt.Dimension;
import javax.swing.ImageIcon;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.SwingConstants;
import javax.swing.UIManager;
public class Confirmation {
    public static void main(String[] args) {
```

```
//ImageIcon icon = new ImageIcon("E -ew.PNG");

JPanel panel = new JPanel();
panel.setSize(new Dimension(400, 100));
panel.setLayout(null);

JLabel label1 = new JLabel("You seat is confirmed");
label1.setVerticalAlignment(SwingConstants.BOTTOM);
label1.setBounds(20, 20, 200, 30);
label1.setHorizontalAlignment(SwingConstants.CENTER);
panel.add(label1);

JLabel label2 = new JLabel("Do you confirm it and go for payment");
label2.setVerticalAlignment(SwingConstants.TOP);
label2.setHorizontalAlignment(SwingConstants.CENTER);
label2.setBounds(20, 80, 300, 20);
panel.add(label2);

UIManager.put("OptionPane.minimumSize", new Dimension(500, 200));

int res = JOptionPane.showConfirmDialog(null, panel, "File",
JOptionPane.YES_NO_CANCEL_OPTION);

// JOptionPane.PLAIN_MESSAGE, icon);

if(res == 0) {
FeeReceipt.main(new String[1]);
} else if (res == 1) {
university uni=new university();
uni.setVisible(true);
} //else {
//panel1.dispose();
//System.out.println("Pressed CANCEL");
//}
}
```

```
}
```

FeeReceipt.java:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
import java.util.*;
import java.io.*;

public class FeeReceipt
{
    public static JFrame addnewframe = new JFrame();
    static JTextField amounttext = new JTextField();
    static JTextField snametext = new JTextField();
    static JTextField sclasstext = new JTextField();
    static JTextField fnametext = new JTextField();
    static JTextField fmobiletext = new JTextField();
    static JTextField mnamatext = new JTextField();
    static JTextField mmobiletext = new JTextField();
    static JTextField saddresstext = new JTextField();
    static JTextField smobiletext = new JTextField();
    static JTextField dojtext = new JTextField();
    static JTextArea receiptarea = new JTextArea();
    static JButton reset = new JButton("RESET");
    static JButton generatereceipt = new JButton("GENERATE RECEIPT");
    static JButton printreceipt = new JButton("PRINT RECEIPT");
    static int num =0;
```

```
public static void main(String[] args)
{
JLabel header = new JLabel();
JLabel headerlabel = new JLabel("FEES RECEIPT ");
JLabel sname = new JLabel();
JLabel snamelabel = new JLabel("Student name : ");
JLabel sclass = new JLabel();
JLabel sclasslabel = new JLabel("Enter class : ");
JLabel fname = new JLabel();
JLabel fnamelabel = new JLabel("Father name : ");
JLabel fmobile = new JLabel();
JLabel fmobilelabel = new JLabel("Father's ph: ");
JLabel mname = new JLabel();
JLabel mnamelabel = new JLabel("Mother name : ");
JLabel mmobile = new JLabel();
JLabel mmobilelabel = new JLabel("Mother's ph : ");
JLabel saddress = new JLabel();
JLabel saddresslabel = new JLabel("Enter address : ");
JLabel smobile = new JLabel();
JLabel smobilelabel = new JLabel("Student's ph : ");
JLabel doj = new JLabel();
JLabel dojlabel = new JLabel("Date of joining : ");
JLabel amount = new JLabel();
JLabel amountlabel = new JLabel("Fee amount : ");
```

```
addnewframe.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
addnewframe.setBounds(0,0,1375,725);
addnewframe.setVisible(true)
Container cntr = addnewframe.getContentPane();
cntr.setLayout(null);
cntr.setBackground(Color.PINK);
cntr.add(header);
header.setLayout(null);
//header.setBorder(BorderFactory.createLineBorder(Color.BLACK));
header.setBounds(300,0,750,100);
header.add(headerlabel);
headerlabel.setBounds(75,0,625,150);
Font f = new Font("Times new roman",Font.BOLD,30);
headerlabel.setFont(f);
Font f2 = new Font("Baskerville Old Face",Font.BOLD,20);
snamelabel.setFont(f2);
sclasslabel.setFont(f2);
fnamelabel.setFont(f2);
fmobilelabel.setFont(f2);
mnamelabel.setFont(f2);
mmobilelabel.setFont(f2);
saddresslabel.setFont(f2);
smobilelabel.setFont(f2);
dojlabel.setFont(f2);
amountlabel.setFont(f2);
generatereceipt.setFont(f2);
reset.setFont(f2);
printreceipt.setFont(f2);
```

```
Font f3 = new Font("Baskerville Old Face",Font.BOLD,15);

snametext.setFont(f3);

sclasstext.setFont(f3);

fnametext.setFont(f3);

fmobiletext.setFont(f3);

mnametext.setFont(f3);

mmobiletext.setFont(f3);

saddressstext.setFont(f3);

smobiletext.setFont(f3);

dojtext.setFont(f3);

amounttext.setFont(f3);

receiptarea.setFont(f3);

cntr.add(sname);

sname.setLayout(null);

// sname.setBorder(BorderFactory.createLineBorder(Color.BLACK));

sname.setBounds(25,200-75,500,50);

sname.add(snamelabel);

snamelabel.setBounds(10,0,200,50);

sname.add(snametext);

snametext.setBounds(215,15,270,20);

cntr.add(sclass);

sclass.setLayout(null);

//sclass.setBorder(BorderFactory.createLineBorder(Color.BLACK));

sclass.setBounds(25,375,485+15,50);

sclass.add(sclasslabel);

sclasslabel.setBounds(10,0,175,50);

sclass.add(sclasstext);

sclasstext.setBounds(185+25,15,270,20);
```

```
cntr.add(fname);

fname.setLayout(null);

//fname.setBorder(BorderFactory.createLineBorder(Color.BLACK));

fname.setBounds(25,250-75,500,50);

fname.add(fnamelabel);

fnamelabel.setBounds(10,0,175,50);

fname.add(fnametext);

fnametext.setBounds(215,15,270,20);

cntr.add(fmobil);

fmobil.setLayout(null);

// fmobil.setBorder(BorderFactory.createLineBorder(Color.BLACK));

fmobil.setBounds(25,425,485+15,50);

fmobil.add(fmobillabel);

fmobillabel.setBounds(10,0,175,50);

fmobil.add(fmobiltext);

fmobiltext.setBounds(185+25,15,270,20);

cntr.add(mname);

mname.setLayout(null);

// mname.setBorder(BorderFactory.createLineBorder(Color.BLACK));

mname.setBounds(25,300-75,500,50);

mname.add(mnamelabel);

mnamelabel.setBounds(10,0,185,50);

mname.add(mnametext);

mnametext.setBounds(215,15,270,20);

cntr.add(mmobile);
```

```
mmobile.setLayout(null);
// mmobile.setBorder(BorderFactory.createLineBorder(Color.BLACK));
mmobile.setBounds(25,475,485+15,50);
mmobile.add(mmobilelabel);
mmobilelabel.setBounds(10,0,175,50);
mmobile.add(mmobiletext);
mmobiletext.setBounds(185+25,15,270,20);

cntr.add(saddress);
saddress.setLayout(null);
//saddress.setBorder(BorderFactory.createLineBorder(Color.BLACK));
saddress.setBounds(25,350-75,500,50);
saddress.add(saddresslabel);
saddresslabel.setBounds(10,0,195,50);
saddress.add(saddresstext);
saddresstext.setBounds(215,15,270,20);

cntr.add(smobile);
smobile.setLayout(null);
//smobile.setBorder(BorderFactory.createLineBorder(Color.BLACK));
smobile.setBounds(25,525,485+15,50);
smobile.add(smobilelabel);
smobilelabel.setBounds(10,0,185,50);
smobile.add(smobiletext);
smobiletext.setBounds(185+25,15,270,20);

cntr.add(doj);
doj.setLayout(null);
```

```
//doj.setBorder(BorderFactory.createLineBorder(Color.BLACK));  
doj.setBounds(25,400-75,500,50);  
doj.add(dojlabel);  
dojlabel.setBounds(10,0,215,50);  
doj.add(dojtext);  
dojtext.setBounds(215,15,270,20);  
  
cntr.add(amount);  
amount.setLayout(null);  
//amount.setBorder(BorderFactory.createLineBorder(Color.BLACK));  
amount.setBounds(25,575,485+15,50);  
amount.add(amountlabel);  
amountlabel.setBounds(10,0,200,50);  
amount.add(amounttext);  
amounttext.setBounds(185+25,15,270,20);  
  
cntr.add(receiptarea);  
//receiptarea.setBorder(BorderFactory.createLineBorder(Color.BLACK));  
receiptarea.setBounds(550,100,720,480);  
  
cntr.add(generatereceipt);  
generatereceipt.setBounds(550,600,250,40);  
  
cntr.add(reset);  
reset.setBounds(830,600,180,40);  
  
cntr.add(printraceipt);  
printraceipt.setBounds(1050,600,200,40);
```

```
receiptarea.setEditable(false);

reset.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent event)
    {
        reset_action(event);
    }
});

generatereceipt.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent event)
    {
        generatereceipt_action(event);
    }
});

printreceipt.addActionListener(new ActionListener()
{
    public void actionPerformed(ActionEvent event)
    {
        printreceipt_action(event);
    }
});
```

```
public static void reset_action(ActionEvent event)
{
    amounttext.setText("");
    snametext.setText("");
    sclasstext.setText("");
    fnametext.setText("");
    fmobiletext.setText("");
    mnamatext.setText("");
    mmobiletext.setText("");
    saddressstext.setText("");
    smobiletext.setText("");
    dojtext.setText("");
    receiptarea.setText("");
}
```

```
public static void generatereceipt_action(ActionEvent event)
{
    try
    {
        FileInputStream fin = new FileInputStream("receipt number.txt");
        int i = 0;
        while((i = fin.read())!= -1)
        {
            num=i;
        }
        fin.close();
    }
    catch(Exception e)
```

```

{
    System.out.println(e);
}

Date obj = new Date();

String date = obj.toString();

receiptarea.setText("\t*****\n");

receiptarea.setText(""+receiptarea.getText()+"\t CONCEPT CLASSES\n");

receiptarea.setText(""+receiptarea.getText()+"\t*****\n\n"+date+" Receipt Number : "+(num+1));

receiptarea.setText(""+receiptarea.getText()+"\n\nStudent name : "+snametext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nFather name : "+fnametext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nMother name : "+mnametext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nAddress : "+saddresstext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nDate of admission: "+dojtext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nClass : "+sclasstext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nFather's ph : "+fmobiletext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nMother's ph "+mmobiletext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nStudent's ph "+smobiletext.getText());

receiptarea.setText(""+receiptarea.getText()+"\n\nFee Amount : "+amounttext.getText()+"\t\tSIGNATURE");

}

public static void printreceipt_action(ActionEvent event)

{

try{

receiptarea.print();

}

catch(Exception e)

{



}

```

```

try
{
    FileOutputStream fout = new FileOutputStream("receipt number.txt",true);
    num++;
    fout.write(num);
    fout.close();
}

catch(Exception e)
{
    System.out.println(e);
}
}
}
}
}

```

10.Conclusion and Future Enhancement:

Most of the time, Students must visit universities or colleges to collect various information like Tuition fees, Term Schedule, etc. during their admission process or as per their daily needs. This process is very tedious and time consuming, also it requires manpower in providing required information to visitors. Hence, to overcome the problems a chatbot can be developed. The project can be made more interactive between users and chatbot which can be accessed from anywhere anytime. The chatbot can be easily attached with any university or college website with few simple language conversions. Chatbot provides various information related to university or college and also students-related information. The chatbot can be used by anyone who can access the university's website. The project will use the concept of Artificial Intelligence and Machine Learning. PHP Language will be utilized for the development of Chatbot. User can ask university-related questions, then the query is applied as an input to algorithm, which processes the message and displays the corresponding response to the user.

11.References:

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