

**JAVA SWING BASED –IT returns processing
database**

SQL CONNECTIVITY USING JDBC

A

Report

*Submitted in partial fulfillment of the
Requirements for the award of the Degree of*

**BACHELOR OF ENGINEERING
IN
INFORMATION TECHNOLOGY**

By

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2020-2021

BONAFIDE CERTIFICATE

This is to certify that this project report titled
‘IT Returns Processing Database’
is a project work of **Talveda Shreya** bearing
roll no. 1602-20-737-041 who carried out this
project under my supervision in the IV semester
for the academic year 2021- 2022

Signature

External Examiner

Signature

Internal Examiner

AIM AND PRIORITY OF THE PROJECT

To create a **Java GUI-based** desktop application that connects students looking for internships with project managers looking for interns. It takes values like account number, name, contact details which are then updated in the database using JDBC connectivity.

ARCHITECTURE AND TECHNOLOGY

Software used:

Java Eclipse, Oracle 11g Database, Java SE version 13, SQL*Plus.

Java SWING:

Java SWING is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) - an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier AWT. Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

SQL:

Structure Query Language(SQL) is a database query language used for storing and managing data in **Relational** DBMS. SQL was the first commercial language introduced for E.F Codd's Relational model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

ABSTRACT

IT returns processing database is used to represent the system of income tax payment. The database processes when the details are to be updated and how they are to be filed. This system has accountant details and the bank details of the accountants which include annual income based on which tax is calculated. This tax is validated to payment. Taxpayers should file their IT returns by the due date to avoid fine.

Requirement analysis:

List of tables:

- Account_holder
- Bank_details
- Payment
- Issues
- Contains

List of Attributes with their Domain Types:

Accountholder:

- | | |
|--------------------|--------------|
| ➤ accountnumber | Number(20) |
| ➤ name | varchar2(20) |
| ➤ contact__details | varchar2(40) |
| ➤ profession | varchar2(20) |
| ➤ Aid | Number |

Bankdetails:

- | | |
|------------------|--------------|
| ➤ Account_number | Number(20) |
| ➤ Annual_income | Number |
| ➤ Address | varchar2(40) |
| ➤ Tax | Number |
| ➤ utr | Number |

Payment:

- | | |
|--------------|--------|
| ➤ Payment_id | Number |
| ➤ Tax | Number |

- Due_date varchar2(10)
- Fine Number

Contain:

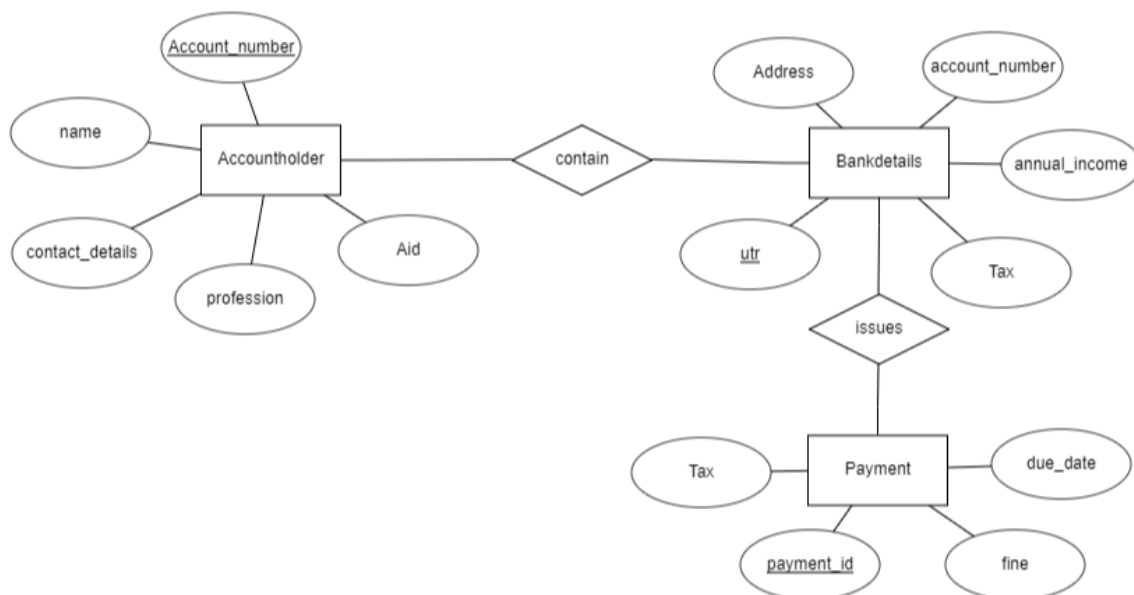
- Account_number Number (20)
- utr Number

Issues:

- Payment_id Number
- utr Number

DESIGN

ENTITY RELATIONSHIP DIAGRAM



DDL OPERATIONS:

```

SQL> create table accountholder(
account_number number,
name varchar2(20),
contact_details varchar2(30),
  
```

profession varchar2(20),
Aid number,
Primary key(account_number));

Table created.

```
SQL> create table accountholder(  
  2  account_number number,  
  3  name varchar2(20),  
  4  contact_details varchar2(20),  
  5  profession varchar2(20),  
  6  Aid number,  
  7  primary key(account_number));
```

Table created.

```
SQL> desc accountholder
```

Name	Null?	Type
ACCOUNT_NUMBER	NOT NULL	NUMBER
NAME		VARCHAR2(20)
CONTACT_DETAILS		VARCHAR2(20)
PROFESSION		VARCHAR2(20)
AID		NUMBER

```
SQL> create table bankdetails (  
  2  utr number,  
  3  account_number number,  
  4  annual_income number,  
  5  address varchar2(40),  
  6  tax number,  
  7  primary key(utr),  
  8  foreign key(account_number) references accountholder);
```

Table created.

```
SQL> create table bankdetails(
  2   utr number,
  3   account_number number,
  4   annual_income number,
  5   address varchar2(40),
  6   tax number,
  7   primary key(utr),
  8   foreign key(account_number) references accountholder);

Table created.
```

```
SQL> desc bankdetails
```

Name	Null?	Type
UTR	NOT NULL	NUMBER
ACCOUNT_NUMBER		NUMBER
ANNUAL_INCOME		NUMBER
ADDRESS		VARCHAR2(40)
TAX		NUMBER

```
SQL> create table payment (
  2   payment_id number,
  3   tax number,
  4   due_date varchar2(20),
  5   fine number,
  6   primary key(payment_id));
```

Table created.

```
SQL> desc payment
```

Name	Null?	Type
PAYMENT_ID	NOT NULL	NUMBER
TAX		NUMBER
DUE_DATE		VARCHAR2(20)
FINE		NUMBER

```
SQL> create table contain (
  2   account_number number,
  3   utr number,
  4   foreign key(account_number) references accountholder,
  5   foreign key(utr) references bankdetails);
```


Table created.

```
SQL> create table contain(  
  2  account_number number,  
  3  utr number,  
  4  foreign key(account_number) references accountholder,  
  5  foreign key(utr) references bankdetails);
```

Table created.

```
SQL> desc contain
```

Name	Null?	Type
ACCOUNT_NUMBER		NUMBER
UTR		NUMBER

```
SQL> create table issues (  
  2  payment_id number,  
  3  utr number,  
  4  foreign key(payment_id) references payment,  
  5  foreign key(utr) references bankdetails);
```

Table created.

```
SQL> create table issues(  
  2  payment_id number,  
  3  utr number,  
  4  foreign key(payment_id) references payment,  
  5  foreign key(utr) references bankdetails);
```

Table created.

```
SQL> desc issues
```

Name	Null?	Type
PAYMENT_ID		NUMBER
UTR		NUMBER

DML OPERATIONS:

```
SQL> insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid);
Enter value for account_number: 456123789012
Enter value for name: shreya
Enter value for contact_details: 9876543210
Enter value for profession: engineer
Enter value for aid: 10
old 1: insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid)
new 1: insert into accountholder values(456123789012,'shreya',9876543210,'engineer',10)

1 row created.
```

```
SQL> insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid);
Enter value for account_number: 523678941023
Enter value for name: john
Enter value for contact_details: 8790321461
Enter value for profession: doctor
Enter value for aid: 12
old 1: insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid)
new 1: insert into accountholder values(523678941023,'john',8790321461,'doctor',12)

1 row created.
```

```
SQL> /
Enter value for account_number: 701359468021
Enter value for name: ram
Enter value for contact_details: 7536984120
Enter value for profession: professor
Enter value for aid: 14
old 1: insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid)
new 1: insert into accountholder values(701359468021,'ram',7536984120,'professor',14)

1 row created.
```

```
SQL> /
Enter value for account_number: 921045638705
Enter value for name: neha
Enter value for contact_details: 6347891023
Enter value for profession: engineer
Enter value for aid: 15
old 1: insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid)
new 1: insert into accountholder values(921045638705,'neha',6347891023,'engineer',15)

1 row created.
```

```
SQL> /
Enter value for account_number: 963478520178
Enter value for name: sai
Enter value for contact_details: 8523690147
Enter value for profession: doctor
Enter value for aid: 16
old 1: insert into accountholder values(&account_number,&'name',&contact_details,&'profession',&Aid)
new 1: insert into accountholder values(963478520178,'sai',8523690147,'doctor',16)

1 row created.
```

```
SQL> select * from accountholder;
```

ACCOUNT_NUMBER	NAME	CONTACT_DETAILS	PROFESSION

AID			

4.5612E+11	shreya 10	9876543210	engineer
5.2368E+11	john 12	8790321461	doctor
7.0136E+11	ram 14	7536984120	professor

ACCOUNT_NUMBER	NAME	CONTACT_DETAILS	PROFESSION

AID			

9.2105E+11	neha 15	6347891023	engineer
9.6348E+11	sai 16	8523690147	doctor

2.

```
SQL> insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax);
Enter value for utr: 1256
Enter value for account_number: 456123789012
Enter value for annual_income: 2100000
Enter value for address: hyderabad
Enter value for tax: 630000
old 1: insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax)
new 1: insert into bankdetails values(1256,456123789012,2100000,'hyderabad',630000)

1 row created.
```

```
SQL> insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax);
Enter value for utr: 5234
Enter value for account_number: 523678941023
Enter value for annual_income: 2500000
Enter value for address: Bangalore
Enter value for tax: 750000
old 1: insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax)
new 1: insert into bankdetails values(5234,523678941023,2500000,'Bangalore',750000)

1 row created.
```

```
SQL> /
Enter value for utr: 8927
Enter value for account_number: 701359468021
Enter value for annual_income: 1900000
Enter value for address: Chennai
Enter value for tax: 570000
old 1: insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax)
new 1: insert into bankdetails values(8927,701359468021,1900000,'Chennai',570000)

1 row created.
```

```
SQL> /
Enter value for utr: 1326
Enter value for account_number: 921045638705
Enter value for annual_income: 2000000
Enter value for address: mumbai
Enter value for tax: 600000
old 1: insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax)
new 1: insert into bankdetails values(1326,921045638705,2000000,'mumbai',600000)

1 row created.
```

```
SQL> /
Enter value for utr: 1567
Enter value for account_number: 963478520178
Enter value for annual_income: 1800000
Enter value for address: kerala
Enter value for tax: 540000
old 1: insert into bankdetails values(&utr,&account_number,&annual_income,&'&address',&tax)
new 1: insert into bankdetails values(1567,963478520178,1800000,'kerala',540000)

1 row created.
```

```
SQL> select * from bankdetails;
```

UTR	ACCOUNT_NUMBER	ANNUAL_INCOME	ADDRESS
1256 630000	4.5612E+11	2100000	hyderabad
5234 750000	5.2368E+11	2500000	Banglore
8927 570000	7.0136E+11	1900000	Chennai

UTR	ACCOUNT_NUMBER	ANNUAL_INCOME	ADDRESS
1326 600000	9.2105E+11	2000000	mumbai
1567 540000	9.6348E+11	1800000	kerala

3.

```
SQL> insert into contain values(&account_number,&utr);
Enter value for account_number: 456123789012
Enter value for utr: 1256
old 1: insert into contain values(&account_number,&utr)
new 1: insert into contain values(456123789012,1256)

1 row created.

SQL> /
Enter value for account_number: 523678941023
Enter value for utr: 5234
old 1: insert into contain values(&account_number,&utr)
new 1: insert into contain values(523678941023,5234)

1 row created.

SQL> /
Enter value for account_number: 701359468021
Enter value for utr: 8927
old 1: insert into contain values(&account_number,&utr)
new 1: insert into contain values(701359468021,8927)

1 row created.

SQL> /
Enter value for account_number: 921045638705
Enter value for utr: 1326
old 1: insert into contain values(&account_number,&utr)
new 1: insert into contain values(921045638705,1326)

1 row created.

SQL> /
Enter value for account_number: 963478520178
Enter value for utr: 1567
old 1: insert into contain values(&account_number,&utr)
new 1: insert into contain values(963478520178,1567)

1 row created.
```

```
SQL> select * from contain;
```

ACCOUNT_NUMBER	UTR
4.5612E+11	1256
5.2368E+11	5234
7.0136E+11	8927
9.2105E+11	1326
9.6348E+11	1567

4.

```
SQL> insert into payment values(&payment_id,&tax,'&due_date',&fine);
Enter value for payment_id: 80256
Enter value for tax: 630000
Enter value for due_date: may 4
Enter value for fine: 1000
old 1: insert into payment values(&payment_id,&tax,'&due_date',&fine)
new 1: insert into payment values(80256,630000,'may 4',1000)

1 row created.
```

```
SQL> insert into payment values(&payment_id,&tax,'&due_date',&fine);
Enter value for payment_id: 89641
Enter value for tax: 750000
Enter value for due_date: may 19
Enter value for fine: 1500
old 1: insert into payment values(&payment_id,&tax,'&due_date',&fine)
new 1: insert into payment values(89641,750000,'may 19',1500)

1 row created.
```

```
SQL> /
Enter value for payment_id: 80369
Enter value for tax: 570000
Enter value for due_date: may 27
Enter value for fine: 1500
old 1: insert into payment values(&payment_id,&tax,'&due_date',&fine)
new 1: insert into payment values(80369,570000,'may 27',1500)

1 row created.
```

```
SQL> /
Enter value for payment_id: 81236
Enter value for tax: 600000
Enter value for due_date: june 2
Enter value for fine: 2000
old 1: insert into payment values(&payment_id,&tax,'&due_date',&fine)
new 1: insert into payment values(81236,600000,'june 2',2000)

1 row created.
```

```
SQL> /
Enter value for payment_id: 91000
Enter value for tax: 540000
Enter value for due_date: june 6
Enter value for fine: 2500
old 1: insert into payment values(&payment_id,&tax,'&due_date',&fine)
new 1: insert into payment values(91000,540000,'june 6',2500)

1 row created.
```

```

1 row created.

SQL> select * from payment;

PAYMENT_ID          TAX DUE_DATE          FINE
-----
      80256      630000 may  4          1000
      80369      570000 may 27          1500
      89641      750000 may 19          1500
      81236      600000 june  2          2000
      91000      540000 june  6          2500

```

5.

```

SQL> insert into issues values(&payment_id,&utr);
Enter value for payment_id: 80256
Enter value for utr: 1256
old 1: insert into issues values(&payment_id,&utr)
new 1: insert into issues values(80256,1256)

1 row created.

SQL> /
Enter value for payment_id: 80369
Enter value for utr: 8927
old 1: insert into issues values(&payment_id,&utr)
new 1: insert into issues values(80369,8927)

1 row created.

SQL> /
Enter value for payment_id: 89641
Enter value for utr: 5234
old 1: insert into issues values(&payment_id,&utr)
new 1: insert into issues values(89641,5234)

1 row created.

SQL> /
Enter value for payment_id: 81236
Enter value for utr: 1326
old 1: insert into issues values(&payment_id,&utr)
new 1: insert into issues values(81236,1326)

1 row created.

SQL> /
Enter value for payment_id: 91000
Enter value for utr: 1567
old 1: insert into issues values(&payment_id,&utr)
new 1: insert into issues values(91000,1567)

1 row created.

```

```

SQL> select * from issues;

PAYMENT_ID          UTR
-----
      80256          1256
      80369          8927
      89641          5234
      81236          1326
      91000          1567

```

IMPLEMENTATION:

Front end programs and its connectivity

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
public conn(){
    try{
        Class.forName("oracle.jdbc.OracleDriver");
        conn=DriverManager.getConnection("jdbc:oracle:thin:@218.248.0.7:1521:rdb
ms","it20737041","vasavi");;
        System.out.println("Connected");
        s = conn.createStatement();
    }
    catch(Exception e) {
        e.printStackTrace();
    }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

Insert into account_holder :

```
import java.sql.*;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class Insert_account_holder extends JFrame implements ActionListener{
    JLabel l1,l2,l3,l4,l5,l6,l7;
    JTextField t1,t2,t3,t4,t5,t6,t7;
    JButton b1,b2;
    Choice c1;
```

```
Insert_account_holder(){

    super("New account holder");
    //setSize(600,650);
    //setLocation(600,200);
    setLayout(null);
    getContentPane().setBackground(Color.WHITE);

    //JPanel p1= new JPanel();
    //p1.setBackground(Color.BLACK);
    //p1.setLayout(new GridLayout(8,2,10,40));

    l1 = new JLabel("Name");
    l1.setForeground(Color.WHITE);
    l1.setBackground(Color.BLACK);

    t1 = new JTextField(15);
    t1.setBackground(Color.BLACK);
    t1.setForeground(Color.WHITE);

    //p1.add(l1);
    //p1.add(t1);
    l1.setBounds(40,80,100,20);
    t1.setBounds(160,80,200,20);
    add(l1);
    add(t1);


    c1 = new Choice();
    c1.add("Male");
    c1.add("Female");
    c1.add("Others");
    c1.setBackground(Color.BLACK);
    c1.setForeground(Color.WHITE);

    l2 = new JLabel("Gender");
    l2.setForeground(Color.WHITE);
    l2.setBackground(Color.BLACK);

    l2.setBounds(40,120,100,20);
    c1.setBounds(162,120,200,20);
    add(l2);
    add(c1);

    //p1.add(l2);
    //p1.add(c1);
```



```
l3 = new JLabel("Address");
l3.setForeground(Color.WHITE);
l3.setBackground(Color.BLACK);

t3 = new JTextField(15);
t3.setBackground(Color.BLACK);
t3.setForeground(Color.WHITE);

l3.setBounds(40,160,100,20);
t3.setBounds(160,160,200,20);
add(l3);
add(t3);
//p1.add(l3);
//l.add(t3);
l4 = new JLabel("Profession");
l4.setForeground(Color.WHITE);
l4.setBackground(Color.BLACK);

t4 = new JTextField(15);
t4.setBackground(Color.BLACK);
t4.setForeground(Color.WHITE);

l4.setBounds(40,200,100,20);
t4.setBounds(160,200,200,20);
add(l4);
add(t4);

//p1.add(l4);
//p1.add(t4);
l5 = new JLabel("Contact_details");
l5.setForeground(Color.WHITE);
l5.setBackground(Color.BLACK);

t5 = new JTextField(15);
t5.setBackground(Color.BLACK);
t5.setForeground(Color.WHITE);

l5.setBounds(40,240,100,20);
t5.setBounds(160,240,200,20);
add(l5);
add(t5);
//p1.add(l5);
//p1.add(t5);

l6 = new JLabel("Email");
l6.setForeground(Color.WHITE);
```

```
l6.setBackground(Color.BLACK);

t6 = new JTextField(15);
t6.setBackground(Color.BLACK);
t6.setForeground(Color.WHITE);

l6.setBounds(40,280,100,20);
t6.setBounds(160,280,200,20);
add(l6);
add(t6);
//p1.add(l6);
//p1.add(t6);
l7 = new JLabel("account_number");
l7.setForeground(Color.WHITE);
l7.setBackground(Color.BLACK);

t7= new JTextField(15);
t7.setBackground(Color.BLACK);
t7.setForeground(Color.WHITE);

l7.setBounds(40,320,100,20);
t7.setBounds(160,320,200,20);
add(l7);
add(t7);

//p1.add(l7);
//p1.add(t7);
b1 =new JButton("Submit");
b2 = new JButton("Cancel");
//p1.add(b1);
//p1.add(b2);
b1.setBounds(40,400,150,30);
b2.setBounds(200,400,150,30);
add(b1);
add(b2);

//setLayout(new BorderLayout());
//add(new JLabel(new ImageIcon
//((ClassLoader.getResource("icons/new_employee.png"))),"West");
//add(p1,"Center");

b1.addActionListener(this);
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
b2.addActionListener(this);
b2.setBackground(Color.BLACK);
```

```

b2.setForeground(Color.WHITE);
setVisible(true);
setSize(400,550);
setLocation(600,200);

getContentPane().setBackground(Color.BLACK);
}
public void actionPerformed(ActionEvent ae){

String n = t1.getText();
String g = c1.getSelectedItem();
String a = t3.getText();
String p = t4.getText();
String c = t5.getText();
String e = t6.getText();
String an = t7.getText();
String qry = "insert into acc_holder
values(null,""+n+"",""+g+"",""+a+"",""+p+"",""+c+"",""+e+"",""+an+"")";
try{
conn c1 = new conn();
c1.s.executeUpdate(qry);
JOptionPane.showMessageDialog(null,"Account_holder Created");
this.setVisible(false);
}
catch(Exception ee){
ee.printStackTrace();
}
}

public static void main(String s[]){
new Insert_account_holder().setVisible(true);
}
}

```

Update account_holder :

```

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

public class Update_account_holder extends JFrame implements
ActionListener,ItemListener{
JLabel l1,l2,l3,l4,l5,l6,l7,emp;

```

```

JTextField t1,t2,t3,t4,t5,t6,t7;
JButton b1,b2;
Choice c1,c2;

Update_account_holder(){

super("Update account_holder");

setLayout(null);
getContentPane().setBackground(Color.WHITE);

c2 = new Choice();
c2.setForeground(Color.WHITE);
c2.setBackground(Color.BLACK);
c2.setBounds(160,40,200,20);

try{
conn c = new conn();
ResultSet rs = c.s.executeQuery("select * from account_holder");

while(rs.next()){
c2.add(rs.getString("id"));
}
}catch(Exception e){ }

emp = new JLabel("Select id");
emp.setForeground(Color.WHITE);
emp.setBackground(Color.BLACK);
emp.setBounds(40,40,100,20);
add(emp);
add(c2);

l1 = new JLabel("Name : ");
l1.setForeground(Color.WHITE);
l1.setBackground(Color.BLACK);

t1 = new JTextField(15);
t1.setForeground(Color.WHITE);
t1.setBackground(Color.BLACK);

l1.setBounds(40,80,100,20);
t1.setBounds(160,80,200,20);
add(l1);

```

```
add(t1);
```

```
c1 = new Choice();  
c1.setForeground(Color.WHITE);  
c1.setBackground(Color.BLACK);
```

```
c1.add("Male");  
c1.add("Female");
```

```
l2 = new JLabel("Gender : ");  
l2.setForeground(Color.WHITE);  
l2.setBackground(Color.BLACK);
```

```
l2.setBounds(40,120,100,20);  
c1.setBounds(160,120,200,20);  
add(l2);  
add(c1);
```

```
l3 = new JLabel("Address : ");  
l3.setForeground(Color.WHITE);  
l3.setBackground(Color.BLACK);
```

```
t3 = new JTextField(15);  
t3.setForeground(Color.WHITE);  
t3.setBackground(Color.BLACK);
```

```
l3.setBounds(40,160,100,20);  
t3.setBounds(160,160,200,20);  
add(l3);  
add(t3);
```

```
l4 = new JLabel("Profession : ");  
l4.setForeground(Color.WHITE);  
l4.setBackground(Color.BLACK);  
t4 = new JTextField(15);  
t4.setForeground(Color.WHITE);  
t4.setBackground(Color.BLACK);
```

```
l4.setBounds(40,200,100,20);  
t4.setBounds(160,200,200,20);  
add(l4);  
add(t4);
```

```
l5 = new JLabel("Contact_details : ");  
l5.setForeground(Color.WHITE);  
l5.setBackground(Color.BLACK);
```

```
t5 = new JTextField(15);  
t5.setForeground(Color.WHITE);  
t5.setBackground(Color.BLACK);
```

```
l5.setBounds(40,240,100,20);  
t5.setBounds(160,240,200,20);  
add(l5);  
add(t5);
```

```
l6 = new JLabel("Email : ");  
l6.setForeground(Color.WHITE);  
l6.setBackground(Color.BLACK);
```

```
t6 = new JTextField(15);  
t6.setForeground(Color.WHITE);  
t6.setBackground(Color.BLACK);
```

```
l6.setBounds(40,280,100,20);  
t6.setBounds(160,280,200,20);  
add(l6);  
add(t6);
```

```
l7 = new JLabel("account_number : ");  
l7.setForeground(Color.WHITE);  
l7.setBackground(Color.BLACK);
```

```
t7= new JTextField(15);  
t7.setForeground(Color.WHITE);  
t7.setBackground(Color.BLACK);
```

```
l7.setBounds(40,320,100,20);  
t7.setBounds(160,320,200,20);  
add(l7);  
add(t7);
```

```
b1 =new JButton("Update");  
b2 = new JButton("Delete");
```

```
b1.setBounds(40,400,150,30);
```

```
b2.setBounds(200,400,150,30);
add(b1);
add(b2);
```

```
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
```

```
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
```

```
b1.addActionListener(this);
b2.addActionListener(this);
```

```
c2.addItemListener(this);
```

```
setVisible(true);
setSize(400,550);
setLocation(600,200);
```

```
getContentPane().setBackground(Color.BLACK);
}
```

```
public void actionPerformed(ActionEvent ae){
if(ae.getSource()==b1){String n = t1.getText();
String g = c1.getSelectedItem();
String a = t3.getText();
String p = t4.getText();
String c = t5.getText();String e = t6.getText();
String an = t7.getText();
String qry = "update account_holder set
name='"+n+"',gender='"+g+"',address='"+a+"',profession='"+p+"',contact_details=
 '"+c+"',email='"+e+"',account_number='"+an+"' where
id='"+c2.getSelectedItem();
```

```
try{
conn c1 = new conn();
c1.s.executeUpdate(qry);
JOptionPane.showMessageDialog(null,"account_holder Updated");
}
catch(Exception ee){
ee.printStackTrace();
}
}
```

```

if(ae.getSource()==b2){
try{
conn c1 = new conn();
c1.s.executeUpdate("delete from account_holder where
Aid="+c2.getSelectedItem());
JOptionPane.showMessageDialog(null,"account_holder deleted");
this.setVisible(false);
}catch(Exception ee){
ee.printStackTrace();
}
}
}

public void itemStateChanged(ItemEvent ie){
try{
conn c1 = new conn();
ResultSet rs = c1.s.executeQuery("select * from account_holder where
Aid="+c2.getSelectedItem());

if(rs.next()){
t1.setText(rs.getString("name"));
t3.setText(rs.getString("address"));
t4.setText(rs.getString("profession"));
t5.setText(rs.getString("contact_details"));
t6.setText(rs.getString("email"));
t7.setText(rs.getString("account_number"));
}
}

catch(Exception ee){
ee.printStackTrace();
}
}

public static void main(String[] args){
Update_account_holder update_account_holder = new
Update_account_holder();
}
}

```

Insert into bank_details :


```

import java.sql.*;
import javax.swing.*.*;
import java.awt.*.*;
import java.awt.event.*;
public class Insert_bank_details extends JFrame implements ActionListener{
JLabel l1,l2,l3,l4,l5,l6,l7;
JTextField t1,t2,t3,t4,t5,t6,t7;
JButton b1,b2;
Choice c1;
Insert_bank_details(){
super("Bank details");
//setSize(600,650);
//setLocation(600,200);
setLayout(null);
getContentPane().setBackground(Color.WHITE);

//JPanel p1= new JPanel();
//p1.setBackground(Color.BLACK);
//p1.setLayout(new GridLayout(8,2,10,40));

l1 = new JLabel("Name");
l1.setForeground(Color.WHITE);
l1.setBackground(Color.BLACK);

t1 = new JTextField(15);
t1.setBackground(Color.BLACK);
t1.setForeground(Color.WHITE);

//p1.add(l1);
//p1.add(t1);
l1.setBounds(40,80,100,20);
t1.setBounds(160,80,200,20);
add(l1);
add(t1);

c1 = new Choice();
c1.add("Male");
c1.add("Female");
c1.add("Others");
c1.setBackground(Color.BLACK);
c1.setForeground(Color.WHITE);

```

```
l2 = new JLabel("Gender");
l2.setForeground(Color.WHITE);
l2.setBackground(Color.BLACK);

l2.setBounds(40,120,100,20);
c1.setBounds(162,120,200,20);
add(l2);
add(c1);

//p1.add(l2);
//p1.add(c1);
l3 = new JLabel("Address");
l3.setForeground(Color.WHITE);
l3.setBackground(Color.BLACK);

t3 = new JTextField(15);
t3.setBackground(Color.BLACK);
t3.setForeground(Color.WHITE);

l3.setBounds(40,160,100,20);
t3.setBounds(160,160,200,20);
add(l3);
add(t3);
//p1.add(l3);
//1.add(t3);
l4 = new JLabel("annual_income");
l4.setForeground(Color.WHITE);
l4.setBackground(Color.BLACK);

t4 = new JTextField(15);
t4.setBackground(Color.BLACK);
t4.setForeground(Color.WHITE);

l4.setBounds(40,200,100,20);
t4.setBounds(160,200,200,20);
add(l4);
add(t4);

//p1.add(l4);
//p1.add(t4);
l5 = new JLabel("Contact_details");
l5.setForeground(Color.WHITE);
l5.setBackground(Color.BLACK);
```

```
t5 = new JTextField(15);
t5.setBackground(Color.BLACK);
t5.setForeground(Color.WHITE);
```

```
l5.setBounds(40,240,100,20);
t5.setBounds(160,240,200,20);
add(l5);
add(t5);
//p1.add(l5);
//p1.add(t5);
```

```
l6 = new JLabel("utr");
l6.setForeground(Color.WHITE);
l6.setBackground(Color.BLACK);
```

```
t6 = new JTextField(15);
t6.setBackground(Color.BLACK);
t6.setForeground(Color.WHITE);
```

```
l6.setBounds(40,280,100,20);
t6.setBounds(160,280,200,20);
add(l6);
add(t6);
//p1.add(l6);
//p1.add(t6);
l7 = new JLabel("account_number");
l7.setForeground(Color.WHITE);
l7.setBackground(Color.BLACK);
```

```
t7= new JTextField(15);
t7.setBackground(Color.BLACK);
t7.setForeground(Color.WHITE);
```

```
l7.setBounds(40,320,100,20);
t7.setBounds(160,320,200,20);
add(l7);
add(t7);
```

```
//p1.add(l7);
//p1.add(t7);
b1 =new JButton("Submit");
b2 = new JButton("Cancel");
```

```

//p1.add(b1);
//p1.add(b2);
b1.setBounds(40,400,150,30);
b2.setBounds(200,400,150,30);
add(b1);
add(b2);

//setLayout(new BorderLayout());
//add(new JLabel(new ImageIcon
//(ClassLoader.getResource("icons/new_employee.png")), "West");
//add(p1, "Center");

b1.addActionListener(this);
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
b2.addActionListener(this);
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
setVisible(true);
setSize(400,550);
setLocation(600,200);

getContentPane().setBackground(Color.BLACK);
}
public void actionPerformed(ActionEvent ae){

String n = t1.getText();
String g = c1.getSelectedItem();
String a = t3.getText();
String ai = t4.getText();
String c = t5.getText();
String u = t6.getText();
String an = t7.getText();
String qry = "insert into bank_details
values(null, '"+n+"', '"+g+"', '"+a+"', '"+ai+"', '"+c+"', '"+u+"', '"+an+"')";
try{
conn c1 = new conn();
c1.s.executeUpdate(qry);
JOptionPane.showMessageDialog(null, "Bank_details Created");
this.setVisible(false);
}
catch(Exception ee){
ee.printStackTrace();
}
}

```

```
}  
}
```

```
public static void main(String s[]){  
    new Insert_bank_details().setVisible(true);  
}  
}
```

Update bank_details :

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

```
public class Update_bankdetails extends JFrame implements  
    ActionListener,ItemListener{  
    JLabel l1,l2,l3,l4,l5,l6,l7,emp;  
    JTextField t1,t2,t3,t4,t5,t6,t7;  
    JButton b1,b2;  
    Choice c1,c2;
```

```
Update_bankdetails(){
```

```
    super("Update bank_details");
```

```
    setLayout(null);  
    getContentPane().setBackground(Color.WHITE);
```

```
    c2 = new Choice();  
    c2.setForeground(Color.WHITE);  
    c2.setBackground(Color.BLACK);  
    c2.setBounds(160,40,200,20);
```

```
    try{  
        conn c = new conn();  
        ResultSet rs = c.s.executeQuery("select * from bank_details");
```

```
        while(rs.next()){  
            c2.add(rs.getString("utr"));  
        }  
    }catch(Exception e){ }
```

```
emp = new JLabel("Select utr");
emp.setForeground(Color.WHITE);
emp.setBackground(Color.BLACK);
emp.setBounds(40,40,100,20);
add(emp);
add(c2);
```

```
l1 = new JLabel("Name : ");
l1.setForeground(Color.WHITE);
l1.setBackground(Color.BLACK);
```

```
t1 = new JTextField(15);
t1.setForeground(Color.WHITE);
t1.setBackground(Color.BLACK);
```

```
l1.setBounds(40,80,100,20);
t1.setBounds(160,80,200,20);
add(l1);
add(t1);
```

```
c1 = new Choice();
c1.setForeground(Color.WHITE);
c1.setBackground(Color.BLACK);
```

```
c1.add("Male");
c1.add("Female");
```

```
l2 = new JLabel("Gender : ");
l2.setForeground(Color.WHITE);
l2.setBackground(Color.BLACK);
```

```
l2.setBounds(40,120,100,20);
c1.setBounds(160,120,200,20);
add(l2);
add(c1);
```

```
l3 = new JLabel("Address : ");
l3.setForeground(Color.WHITE);
l3.setBackground(Color.BLACK);
```

```
t3 = new JTextField(15);
t3.setForeground(Color.WHITE);
t3.setBackground(Color.BLACK);
```

```
l3.setBounds(40,160,100,20);  
t3.setBounds(160,160,200,20);  
add(l3);  
add(t3);
```

```
l4 = new JLabel("Annual_income : ");  
l4.setForeground(Color.WHITE);  
l4.setBackground(Color.BLACK);  
t4 = new JTextField(15);  
t4.setForeground(Color.WHITE);  
t4.setBackground(Color.BLACK);
```

```
l4.setBounds(40,200,100,20);  
t4.setBounds(160,200,200,20);  
add(l4);  
add(t4);
```

```
l5 = new JLabel("Contact_details : ");  
l5.setForeground(Color.WHITE);  
l5.setBackground(Color.BLACK);
```

```
t5 = new JTextField(15);  
t5.setForeground(Color.WHITE);  
t5.setBackground(Color.BLACK);
```

```
l5.setBounds(40,240,100,20);  
t5.setBounds(160,240,200,20);  
add(l5);  
add(t5);
```

```
l6 = new JLabel("utr : ");  
l6.setForeground(Color.WHITE);  
l6.setBackground(Color.BLACK);
```

```
t6 = new JTextField(15);  
t6.setForeground(Color.WHITE);  
t6.setBackground(Color.BLACK);
```

```
l6.setBounds(40,280,100,20);  
t6.setBounds(160,280,200,20);  
add(l6);  
add(t6);
```

```

l7 = new JLabel("account_number : ");
l7.setForeground(Color.WHITE);
l7.setBackground(Color.BLACK);

t7= new JTextField(15);
t7.setForeground(Color.WHITE);
t7.setBackground(Color.BLACK);

l7.setBounds(40,320,100,20);
t7.setBounds(160,320,200,20);
add(l7);
add(t7);

b1 =new JButton("Update");
b2 = new JButton("Delete");

b1.setBounds(40,400,150,30);
b2.setBounds(200,400,150,30);
add(b1);
add(b2);

b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);

b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);

b1.addActionListener(this);
b2.addActionListener(this);

c2.addItemListener(this);

setVisible(true);
setSize(400,550);
setLocation(600,200);

getContentPane().setBackground(Color.BLACK);
}

public void actionPerformed(ActionEvent ae){
if(ae.getSource()==b1){String n = t1.getText();
String g = c1.getSelectedItem();

```



```

String a = t3.getText();
String ai = t4.getText();
String c = t5.getText();String u = t6.getText();
String an = t7.getText();
String qry = "update bank_details set
name='"+n+"',gender='"+g+"',address='"+a+"',profession='"+ai+"',contact_details
='"+c+"',email='"+u+"',account_number='"+an+"' where
id="+c2.getSelectedItem();

```

```

try{
conn c1 = new conn();
c1.s.executeUpdate(qry);
JOptionPane.showMessageDialog(null,"bank_details Updated");
}
catch(Exception ee){
ee.printStackTrace();
}
}

```

```

if(ae.getSource()==b2){
try{
conn c1 = new conn();
c1.s.executeUpdate("delete from bank_details where
Aid="+c2.getSelectedItem());
JOptionPane.showMessageDialog(null,"bank_details deleted");
this.setVisible(false);
}catch(Exception ee){
ee.printStackTrace();
}
}
}

```

```

public void itemStateChanged(ItemEvent ie){
try{
conn c1 = new conn();
ResultSet rs = c1.s.executeQuery("select * from bank_details where
Aid="+c2.getSelectedItem());

if(rs.next()){
t1.setText(rs.getString("name"));
t3.setText(rs.getString("address"));
t4.setText(rs.getString("annual_income"));
t5.setText(rs.getString("contact_details"));

```

```

t6.setText(rs.getString("utr"));
t7.setText(rs.getString("account_number"));
}
}

catch(Exception ee){
ee.printStackTrace();
}
}

public static void main(String[] args){
Update_bankdetails update_bankdetails = new Update_bankdetails();
}
}

```

Insert into Payment :

```

import java.sql.*;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class Insert_payment extends JFrame implements ActionListener{
JLabel l1,l2,l3,l4;
JTextField t1,t2,t3,t4;
JButton b1,b2;
Choice c1;
Insert_payment(){
super("Payment");
//setSize(600,650);
//setLocation(600,200);
setLayout(null);
getContentPane().setBackground(Color.WHITE);

//JPanel p1= new JPanel();
//p1.setBackground(Color.BLACK);
//p1.setLayout(new GridLayout(8,2,10,40));

l1 = new JLabel("Payment_id");
l1.setForeground(Color.WHITE);
l1.setBackground(Color.BLACK);

t1 = new JTextField(15);
t1.setBackground(Color.BLACK);

```

```
t1.setForeground(Color.WHITE);
```

```
//p1.add(l1);
```

```
//p1.add(t1);
```

```
l1.setBounds(40,80,100,20);
```

```
t1.setBounds(160,80,200,20);
```

```
add(l1);
```

```
add(t1);
```

```
/*c1 = new Choice();
```

```
c1.add("Male");
```

```
c1.add("Female");
```

```
c1.add("Others");
```

```
c1.setBackground(Color.BLACK);
```

```
c1.setForeground(Color.WHITE);
```

```
l2 = new JLabel("Gender");
```

```
l2.setForeground(Color.WHITE);
```

```
l2.setBackground(Color.BLACK);
```

```
l2.setBounds(40,120,100,20);
```

```
c1.setBounds(162,120,200,20);
```

```
add(l2);
```

```
add(c1);
```

```
//p1.add(l2);
```

```
//p1.add(c1);*/
```

```
l2 = new JLabel("tax");
```

```
l2.setForeground(Color.WHITE);
```

```
l2.setBackground(Color.BLACK);
```

```
t2 = new JTextField(15);
```

```
t2.setBackground(Color.BLACK);
```

```
t2.setForeground(Color.WHITE);
```

```
l2.setBounds(40,160,100,20);
```

```
t2.setBounds(160,160,200,20);
```

```
add(l2);
```

```
add(t2);
```

```
//p1.add(l3);
```

```
//l1.add(t3);
```

```
l3 = new JLabel("due_date");
```

```
l3.setForeground(Color.WHITE);  
l3.setBackground(Color.BLACK);
```

```
t3 = new JTextField(15);  
t3.setBackground(Color.BLACK);  
t3.setForeground(Color.WHITE);
```

```
l3.setBounds(40,200,100,20);  
t3.setBounds(160,200,200,20);  
add(l3);  
add(t3);
```

```
//p1.add(l4);  
//p1.add(t4);  
l4 = new JLabel("fine");  
l4.setForeground(Color.WHITE);  
l4.setBackground(Color.BLACK);
```

```
t4 = new JTextField(15);  
t4.setBackground(Color.BLACK);  
t4.setForeground(Color.WHITE);
```

```
l4.setBounds(40,240,100,20);  
t4.setBounds(160,240,200,20);  
add(l4);  
add(t4);  
//p1.add(l5);  
//p1.add(t5);
```

```
/*l6 = new JLabel("utr");  
l6.setForeground(Color.WHITE);  
l6.setBackground(Color.BLACK);
```

```
t6 = new JTextField(15);  
t6.setBackground(Color.BLACK);  
t6.setForeground(Color.WHITE);
```

```
l6.setBounds(40,280,100,20);  
t6.setBounds(160,280,200,20);  
add(l6);  
add(t6);  
//p1.add(l6);  
//p1.add(t6);
```

```

l7 = new JLabel("account_number");
l7.setForeground(Color.WHITE);
l7.setBackground(Color.BLACK);

t7= new JTextField(15);
t7.setBackground(Color.BLACK);
t7.setForeground(Color.WHITE);

l7.setBounds(40,320,100,20);
t7.setBounds(160,320,200,20);
add(l7);
add(t7);

//p1.add(l7);
//p1.add(t7);*/
b1 =new JButton("Submit");
b2 = new JButton("Cancel");
//p1.add(b1);
//p1.add(b2);
b1.setBounds(40,400,150,30);
b2.setBounds(200,400,150,30);
add(b1);
add(b2);

//setLayout(new BorderLayout());
//add(new JLabel(new ImageIcon
//(ClassLoader.getResource("icons/new_employee.png"))),"West");
//add(p1,"Center");

b1.addActionListener(this);
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
b2.addActionListener(this);
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
setVisible(true);
setSize(400,550);
setLocation(600,200);

getContentPane().setBackground(Color.BLACK);
}

public void actionPerformed(ActionEvent ae){

```

```

String p = t1.getText();
//String g = c1.getSelectedItem();
String t = t2.getText();
String d = t3.getText();
String f = t4.getText();
//String u = t6.getText();
//String an = t7.getText();
String qry = "insert into bank_details values(null,'" + p + "','" + t + "','" + d + "','" + f + "')";
try{
conn c1 = new conn();
c1.s.executeUpdate(qry);
JOptionPane.showMessageDialog(null,"PAYMENTS Created");
this.setVisible(false);
}
catch(Exception ee){
ee.printStackTrace();
}
}

public static void main(String s[]){
new Insert_payment().setVisible(true);
}
}

```

Update payment :

```

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

public class Update_payment extends JFrame implements
ActionListener,ItemListener{
JLabel l1,l2,l3,l4,emp;
JTextField t1,t2,t3,t4;
JButton b1,b2;
Choice c1,c2;

Update_payment(){

super("Update payment");

setLayout(null);

```

```

getContentPane().setBackground(Color.WHITE);

c2 = new Choice();
c2.setForeground(Color.WHITE);
c2.setBackground(Color.BLACK);
c2.setBounds(160,40,200,20);

try{
conn c = new conn();
ResultSet rs = c.s.executeQuery("select * from payment");

while(rs.next()){
c2.add(rs.getString("pid"));
}
}catch(Exception e){ }

emp = new JLabel("Select pid");
emp.setForeground(Color.WHITE);
emp.setBackground(Color.BLACK);
emp.setBounds(40,40,100,20);
add(emp);
add(c2);

l1 = new JLabel("Payment_id : ");
l1.setForeground(Color.WHITE);
l1.setBackground(Color.BLACK);

t1 = new JTextField(15);
t1.setForeground(Color.WHITE);
t1.setBackground(Color.BLACK);

l1.setBounds(40,80,100,20);
t1.setBounds(160,80,200,20);
add(l1);
add(t1);

/*c1 = new Choice();
c1.setForeground(Color.WHITE);
c1.setBackground(Color.BLACK);

c1.add("Male");
c1.add("Female");

```

```
l2 = new JLabel("Gender : ");  
l2.setForeground(Color.WHITE);  
l2.setBackground(Color.BLACK);
```

```
l2.setBounds(40,120,100,20);  
c1.setBounds(160,120,200,20);  
add(l2);  
add(c1);*/
```

```
l2 = new JLabel("tax : ");  
l2.setForeground(Color.WHITE);  
l2.setBackground(Color.BLACK);
```

```
t2 = new JTextField(15);  
t2.setForeground(Color.WHITE);  
t2.setBackground(Color.BLACK);
```

```
l2.setBounds(40,160,100,20);  
t2.setBounds(160,160,200,20);  
add(l2);  
add(t2);
```

```
l3 = new JLabel("due_date : ");  
l3.setForeground(Color.WHITE);  
l3.setBackground(Color.BLACK);  
t3 = new JTextField(15);  
t3.setForeground(Color.WHITE);  
t3.setBackground(Color.BLACK);
```

```
l3.setBounds(40,200,100,20);  
t3.setBounds(160,200,200,20);  
add(l3);  
add(t3);
```

```
l4 = new JLabel("fine : ");  
l4.setForeground(Color.WHITE);  
l4.setBackground(Color.BLACK);
```

```
t4 = new JTextField(15);  
t4.setForeground(Color.WHITE);  
t4.setBackground(Color.BLACK);
```

```
l4.setBounds(40,240,100,20);
```



```
t4.setBounds(160,240,200,20);
add(l4);
add(t4);

/*l6 = new JLabel("utr : ");
l6.setForeground(Color.WHITE);
l6.setBackground(Color.BLACK);

t6 = new JTextField(15);
t6.setForeground(Color.WHITE);
t6.setBackground(Color.BLACK);

l6.setBounds(40,280,100,20);
t6.setBounds(160,280,200,20);
add(l6);
add(t6);

l7 = new JLabel("account_number : ");
l7.setForeground(Color.WHITE);
l7.setBackground(Color.BLACK);

t7= new JTextField(15);
t7.setForeground(Color.WHITE);
t7.setBackground(Color.BLACK);

l7.setBounds(40,320,100,20);
t7.setBounds(160,320,200,20);
add(l7);
add(t7);*/

b1 =new JButton("Update");
b2 = new JButton("Delete");

b1.setBounds(40,400,150,30);
b2.setBounds(200,400,150,30);
add(b1);
add(b2);

b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);

b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
```

```
b1.addActionListener(this);
b2.addActionListener(this);
```

```
c2.addItemListener(this);
```

```
setVisible(true);
setSize(400,550);
setLocation(600,200);
```

```
getContentPane().setBackground(Color.BLACK);
}
```

```
public void actionPerformed(ActionEvent ae){
if(ae.getSource()==b1){String p = t1.getText();
//String g = c1.getSelectedItem();
String t = t2.getText();
String d = t3.getText();
String f = t4.getText();//String u = t6.getText();
//String an = t7.getText();
String qry = "update bank_details set
name='"+p+"',gender='"+t+"',address='"+d+"',profession='"+f+"' where
id='"+c2.getSelectedItem();
```

```
try{
conn c1 = new conn();
c1.s.executeUpdate(qry);
JOptionPane.showMessageDialog(null,"payment Updated");
}
catch(Exception ee){
ee.printStackTrace();
}
}
```

```
if(ae.getSource()==b2){
try{
conn c1 = new conn();
c1.s.executeUpdate("delete from bank_details where
pid='"+c2.getSelectedItem());
JOptionPane.showMessageDialog(null,"payment deleted");
this.setVisible(false);
}catch(Exception ee){
ee.printStackTrace();
```

```
}  
}  
}
```

```
public void itemStateChanged(ItemEvent ie){  
try{  
conn c1 = new conn();  
ResultSet rs = c1.s.executeQuery("select * from payment where  
pid="+c2.getSelectedItem());
```

```
if(rs.next()){  
t1.setText(rs.getString("payment_id"));  
t2.setText(rs.getString("tax"));  
t3.setText(rs.getString("due_date"));  
t4.setText(rs.getString("fine"));  
//t6.setText(rs.getString("utr"));  
//t7.setText(rs.getString("account_number"));  
}  
}
```

```
catch(Exception ee){  
ee.printStackTrace();  
}  
}
```

```
public static void main(String[] args){  
Update_payment update_payment = new Update_payment();  
}  
}
```

Project :

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

```
public class project extends JFrame implements ActionListener {
```

```
project(){  
setSize(2000,1100);  
getContentPane().setBackground(Color.WHITE);
```

```

        //ImageIcon i1 = new
        ImageIcon(ClassLoader.getResource("icon/payroll.jpg"));
        //Image i2 =
        i1.getImage().getScaledInstance(1900,1000,Image.SCALE_DEFAULT);
        //ImageIcon i3 = new ImageIcon(i2);
        //JLabel l1 = new JLabel(i3);
        //add(l1);

        JMenuBar mb = new JMenuBar();
        setJMenuBar(mb);
        JMenu m1 = new JMenu("Master");
        m1.setForeground(Color.blue);

        JMenuItem t1 = new JMenuItem("New account holder");

        t1.setForeground(Color.blue);
        t1.setFont(new Font("monospaced",Font.PLAIN,12));
        t1.setMnemonic('N');
        t1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_N,
        ActionEvent.CTRL_MASK));
        //t1.setIcon(new
        ImageIcon(ClassLoader.getResource("icons/New.png")));

        JMenuItem t3 = new JMenuItem("Bankdetails");
        t3.setForeground(Color.blue);
        t3.setFont(new Font("monospaced",Font.PLAIN,12));
        t3.setMnemonic('S');
        //t3.setIcon(new
        ImageIcon(ClassLoader.getResource("icon/schedreport.png")));
        t3.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_S,
        ActionEvent.CTRL_MASK));

        JMenuItem t4 = new JMenuItem("Payment");

        t4.setForeground(Color.blue);
        t4.setFont(new Font("monospaced",Font.PLAIN,12));
        t4.setMnemonic('L');
        //t4.setIcon(new
        ImageIcon(ClassLoader.getResource("icon/newinvoice.png")));

```

```
t4.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_L,  
ActionEvent.CTRL_MASK));
```

```
m1.add(t1);  
// m1.add(t2);  
m1.add(t3);  
m1.add(t4);  
mb.add(m1);
```

```
t1.addActionListener(this);  
//t2.addActionListener(this);  
t3.addActionListener(this);  
t4.addActionListener(this);
```

```
JMenu edit =new JMenu("Update");  
edit.setForeground(Color.RED);
```

```
mb.add(edit);  
JMenuItem s1 = new JMenuItem("Update payment");  
s1.setForeground(Color.blue);  
s1.setFont(new Font("monospaced",Font.PLAIN,12));  
s1.setMnemonic('U');  
//s1.setIcon(new  
ImageIcon(ClassLoader.getResource("icons/EditOpen.png")));  
s1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_U,  
ActionEvent.CTRL_MASK));
```

```
edit.add(s1);
```

```
JMenuItem s2 = new JMenuItem("Update account holder");
```

```
s2.setForeground(Color.blue);  
s2.setFont(new Font("monospaced",Font.PLAIN,12));  
s2.setMnemonic('p');  
//s2.setIcon(new  
ImageIcon(ClassLoader.getResource("icon/empreport.png")));  
s2.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_P,  
ActionEvent.CTRL_MASK));
```

```
edit.add(s2);
JMenuItem s3 = new JMenuItem("Update bankdetails");

s3.setForeground(Color.blue);
s3.setFont(new Font("monospaced",Font.PLAIN,12));
s3.setMnemonic('T');
s3.setIcon(new
ImageIcon(ClassLoader.getResource("icon/EXPENSE.PNG"))));
s3.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_T,
ActionEvent.CTRL_MASK));
```

```
edit.add(s3);
```

```
s1.addActionListener(this);
s2.addActionListener(this);
s3.addActionListener(this);
JMenu rep =new JMenu("details");
rep.setForeground(Color.blue);
```

```
mb.add(rep);
JMenuItem p1 = new JMenuItem("Insert account holder");
```

```
p1.setForeground(Color.blue);
p1.setFont(new Font("monospaced",Font.PLAIN,12));
p1.setMnemonic('P');
// p1.setIcon(new
ImageIcon(ClassLoader.getResource("icon/payments.png"))));
p1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_P,
ActionEvent.CTRL_MASK));
```

```
rep.add(p1);
JMenuItem p2 = new JMenuItem("Insert bank details");
```

```
p2.setForeground(Color.blue);
p2.setFont(new Font("monospaced",Font.PLAIN,12));
p2.setMnemonic('L');
//p2.setIcon(new
ImageIcon(ClassLoader.getResource("icon/empreport.png"))));
p2.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_L,
ActionEvent.CTRL_MASK));
```

```

rep.add(p2);
p1.addActionListener(this);
p2.addActionListener(this);

JMenu m8=new JMenu("Exit");
m8.setForeground(Color.red);
mb.add(m8);
JMenuItem m8i1=new JMenuItem("Exit");
m8.add(m8i1);
m8i1.setForeground((Color.blue));
m8i1.setFont(new Font("monospaced", Font.PLAIN, 14));
m8i1.setMnemonic('X');
//m8i1.setIcon(new
ImageIcon(ClassLoader.getResource("icon/exit.PNG")));
m8i1.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_X,
ActionEvent.CTRL_MASK));
m8i1.addActionListener(this);

}

```

@Override

```

public void actionPerformed(ActionEvent ae){
    String msg= ae.getActionCommand();

    if(msg.equals("New account holder"))
        new Insert_account_holder().setVisible(true);
    else if(msg.equals("Update account holder"))
        new Update_account_holder().setVisible(true);
    else if(msg.equals("Bank details"))
        new Insert_bank_details().setVisible(true);
    else if(msg.equals("Update bank_details"))
        new Update_bankdetails().setVisible(true);
    else if(msg.equals("Payment"))
        new Insert_payment().setVisible(true);
    else if(msg.equals("Update payment")){
        new Update_payment().setVisible(true);
    }
    else if(msg.equals("Exit"))
        System.exit(0);
    /* else if(msg.equals("Generate PaySlip"))
        new pay_slip().setVisible(true);
    else if(msg.equals("List Attendance"))
        new ListAttendance().setVisible(true);*/
}

```

```

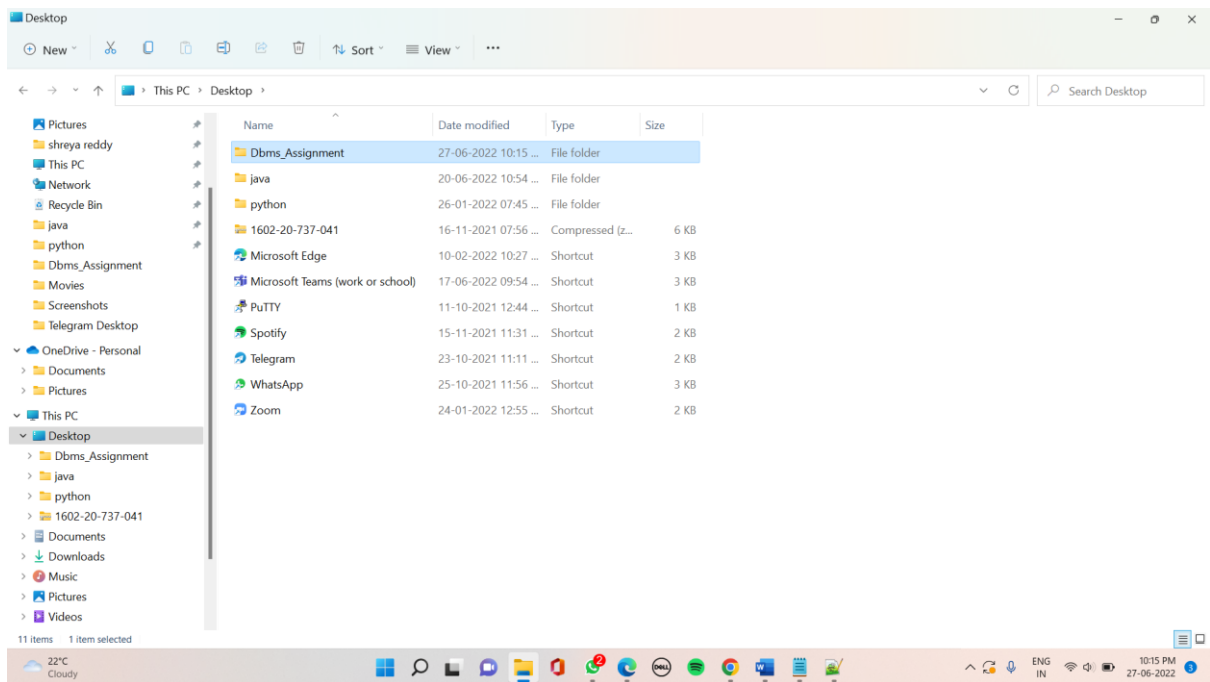
}

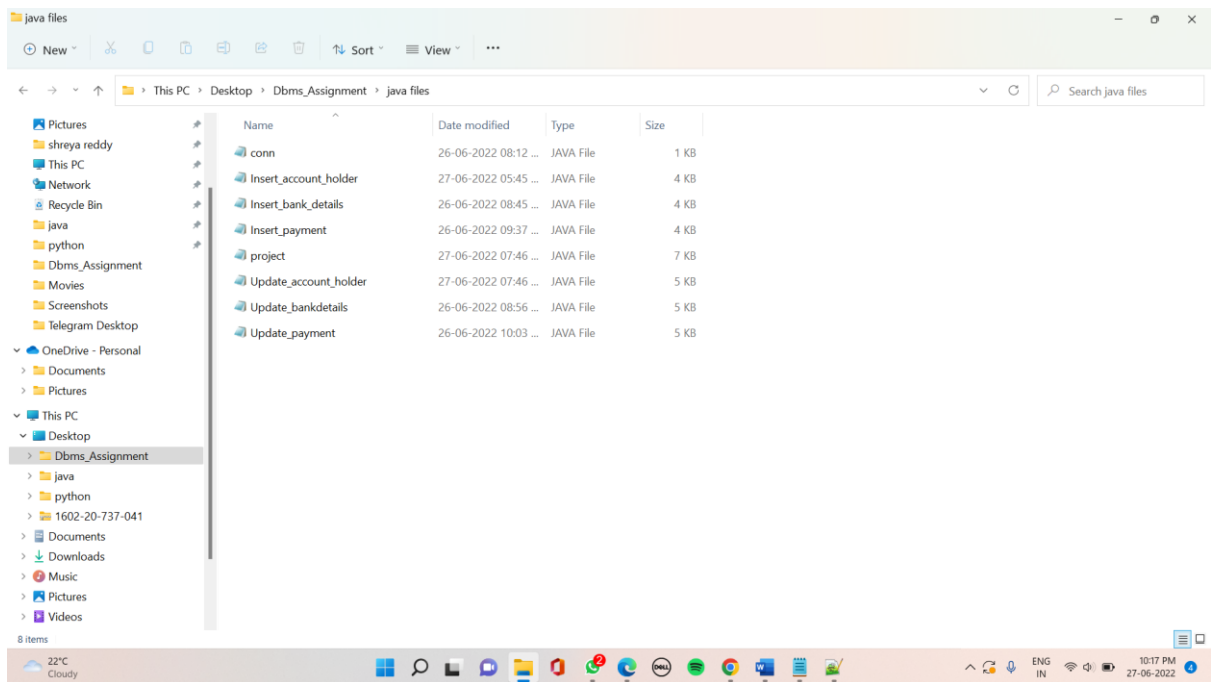
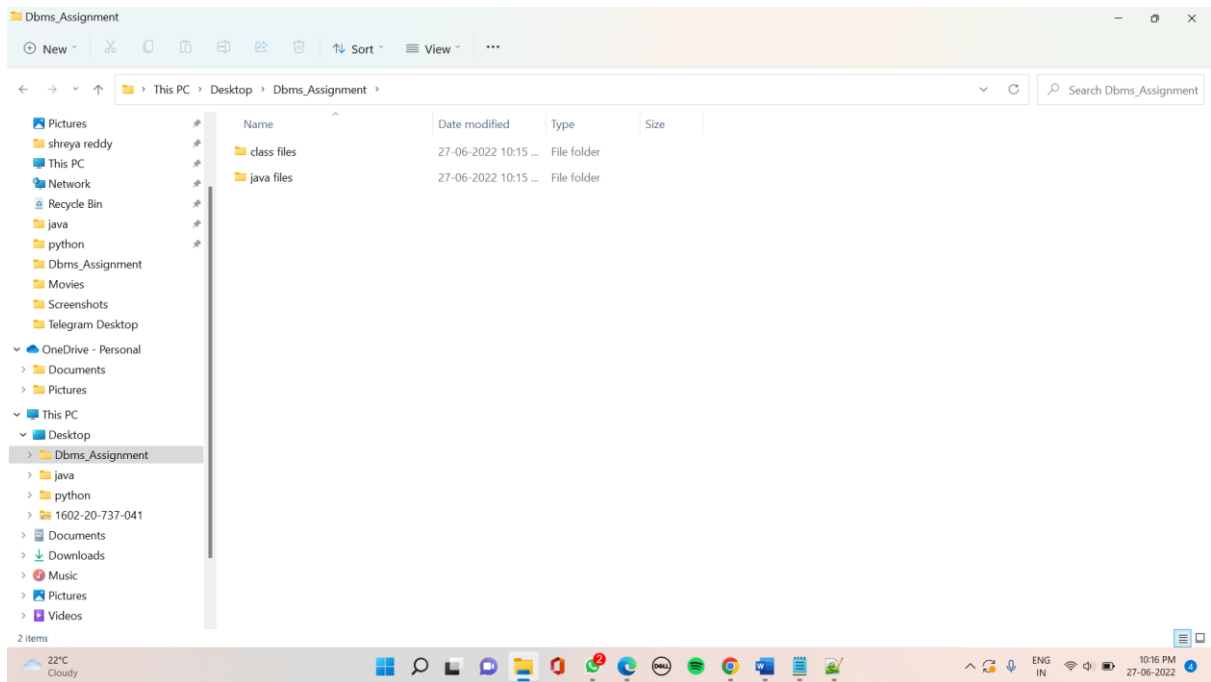
public static void main(String[] args){
    new project().setVisible(true);
}

}


```

Folder Structure :





TESTING :

 New account holder — □ ×

Name	<input type="text" value="shreya"/>
Gender	<input type="text" value="Female"/> ▼
Address	<input type="text" value="Hyd"/>
Profession	<input type="text" value="engineer"/>
Contact_details	<input type="text" value="9876543210"/>
Email	<input type="text" value="shreya@gmail.com"/>
account_number	<input type="text" value="963201458723"/>

Update account_holder

Select id

Name :

Gender :

Address :

Profession :

Contact_details :

Email :

account_numbe...

Bank details

Name

Gender

Address

annual_income

Contact_details

utr

account_number

Update bank_details

Select utr	<div></div>
Name :	<div>james</div>
Gender :	<div>Male</div>
Address :	<div>hyderabad</div>
Annual_income :	<div>5200000</div>
Contact_details :	<div>8529630147</div>
utr :	<div>5236</div>
account_numbe...	<div>852369014725</div>

Update


Delete

Payment

Payment_id	<div>2503</div>
tax	<div>21000</div>
due_date	<div>06-07-2022</div>
fine	<div>2000</div>

Submit

Cancel

 Update payment

Select pid

Payment_id :

2035

tax :

25000

due_date :

09-08-2022

fine :

3000

Update

Delete

DATABASE OUTPUTS :

C:\Users\shreya reddy\Downloads\instantclient_19_8\instantclient_19_8\sqlplus.exe

```
SQL> select * from acc_holder;
```

NAME	GENDER	ADDRESS	
PROFESSION	CONTACT_DETAILS	EMAIL	ACCOUNT_NUMBER
shreya engineer	female	Hyd 9876543210	shreya@gmail.com 9.6320E+11
john doctor	male	mumbai 8963214750	john123@gmail.com 5.0130E+11
jia teacher	female	banglore 7356891453	jia234@gmail.com 9.1063E+11

NAME	GENDER	ADDRESS	
PROFESSION	CONTACT_DETAILS	EMAIL	ACCOUNT_NUMBER
candy govt employee	female	delhi 7410955622	cnd45@gmail.com 8.0148E+11
suraj software employee	male	gujarat 9958263147	surj1@gmail.com 2.0370E+11

```
SQL>
```

C:\Users\shreya reddy\Downloads\instantclient_19_8\instantclient_19_8\sqlplus.exe

```
SQL> select * from bank_details;
```

NAME	GENDER	ADDRESS	ANNUAL_INCOME
CONTACT_DETAILS	UTR	ACCOUNT_NUMBER	
shreya 9876543210	female 1250	hyd 9.6320E+11	3000000
john 9630258741	male 1254	mumbai 9.6870E+12	5000000
suraj 9958263147	male 1356	gujarat 2.0371E+11	5200000
varun 8520369741	male 1562	delhi 2.3660E+11	4000000
ram 900077709	male 1666	hyd 9.9662E+11	6000000
james 8529630147	male 5236	hyderabad 8.5237E+11	5200000

```
6 rows selected.
```

```
SQL>
```

```
C:\Users\shreya reddy\Downloads\instantclient_19_8\instantclient_19_8\sqlplus.exe
SQL> select * from payment;

PAYMENT_ID      TAX DUE_DATE      FINE
-----
2503            21000 -2023        2000
2035            25000 -2021        3000
2968            30000 -2022        1500
2541            20000 -2020        2000
2614            12000 -2024        2000
3614            19000 -2026        3000

6 rows selected.

SQL>
```

DISCUSSION AND FUTURE WORK

So far this project has helped us to register for any project that is conducted online by faculty and students will be able to register for those projects and easily submit their ideas. In the future, we try to include an option which allows students to review their projects which are checked by the faculty and can clarify their mistakes.

REFERENCES:

1. Abraham Silberschatz, Henry F Korth, S. Sudarshan, Database System Concepts, 6th Edition, McGraw-Hill International Edition, 2010.
2. https://docs.oracle.com/cd/E11882_01/server.112/e40540/intro.htm#CNCPT001
3. <https://docs.oracle.com/javase/8/docs/>