Chapter 1

Introduction

“**AUTOMATED TELLER MACHINE**”. Now a day each company or organization prefers the computerized paper-work. Definitely the computer system is more reliable than the manual works. The common human errors can be eliminated with the help of system.

* **Description of Software system under study**

As this is software it can be used by a wide variety of banks to automate the process of manually maintaining the records related to each transaction of bank account holder. The main goal of this application is to provide very reliable & efficient service to bank account holder at any time & any location.

* **Objectives of study**

This Applications gives some special rights and features to its bank customers like through this application no employee is needed to manage its customers in the application database through this application a customer can view all his bank details like loans, withdraw amount, deposit amount, change PIN’s, statements etc.

* **Scope of Project**
* Through this app bank will get less pressure and also there will be less paper work, and customer too don’t need to pay visits for small queries.
* This application will be a big asset for ATM banking system, and will simplify the banking as well as customer life
* The proposed system needs to maintain all the records in computerized form.
* It is useful to reducing the extra work which maintains the records of book keeping & paper less work.
* The storage space, extra workers, missing files all these possibilities are decreased through this system.
* With the help of this system ATM card holder can see all the records about his account only at any time efficiently.
* The most important facility provided by this system is that, there is no any possibility of miss any records.
* **Data Collection**
* The data collection in our project is simple for that we have created 2 MYSQL tables like Masters table and Trans table,
* In Masters table we can access Name, account number, e-mail ID, password, city, gender and amount that simply means it stores all account datil of ATM card holder.
* In Trans table we can access Account number, Deposit and Withdraw which holds all the details about the transactions till date, so this table gives brief information of all transactions.
* Fact-Finding is the formal process of using research, interviews, questionnaires, sampling and preferences. It is also called information about systems, requirements, and preferences. It is also called **Information Gathering** or **Data Collection**. Tools, such as data and process models, document facts, and conclusion are drawn from facts. If you can’t collect the facts, you can’t use the tools. Fact-Finding skills must be learned and practiced.
* **Different types of Fact-Finding techniques are:**
  + INTERVIEWS
  + QUESTIONNAIRE
  + RECORD REVIEW
  + OBSERVATION

**Interviews:**

Interview technique is used to collect the information from individuals groups. Analyst should select responds that are related with the system under study. In this method the interviewer (analyst) faces to face with respondent & records of his/her responses. This interviewer must plane in advance and should fully know the problems under consideration. He must choose a suitable time & place, so that the interviewer may feel at ease during interview.

**Questionnaire:**

A questionnaire performs containing a sequence of questions to elicit information mostly from a large no of persons. Drafting of questionnaires requires skill. The questions must be clear, simple & to the point. They must be well organized from the point of view of the respondent and formulated in such a manner as to provide the data in so far as possible in the desired form. A questionnaire may be mailed to individuals who are requested to write the answer of each question and return complemented performs back by post.

**Record view:**

Information related with the system may be present in the form of records like books, magazines, newspaper, historical documents, letters, journals, manuals, government publications. This kind of record review provides very valuable information to the analyst about the system, organization & various procedures & rules. Record review may be performed in the beginning of study to collect initial information or at the end of the study to compare actual operations.

**Observations:**

If information is not collected from the other fact-finding methods, then observation method is used. In this method analyst observes the flow of documents, way the process is carried out, step followed, the persons involved etc. If the analyst is familiar with the system then he/she knows what to observe and how to gather information. In experienced person may observe unnecessary things, which delays the system study.

* **Design requirements**

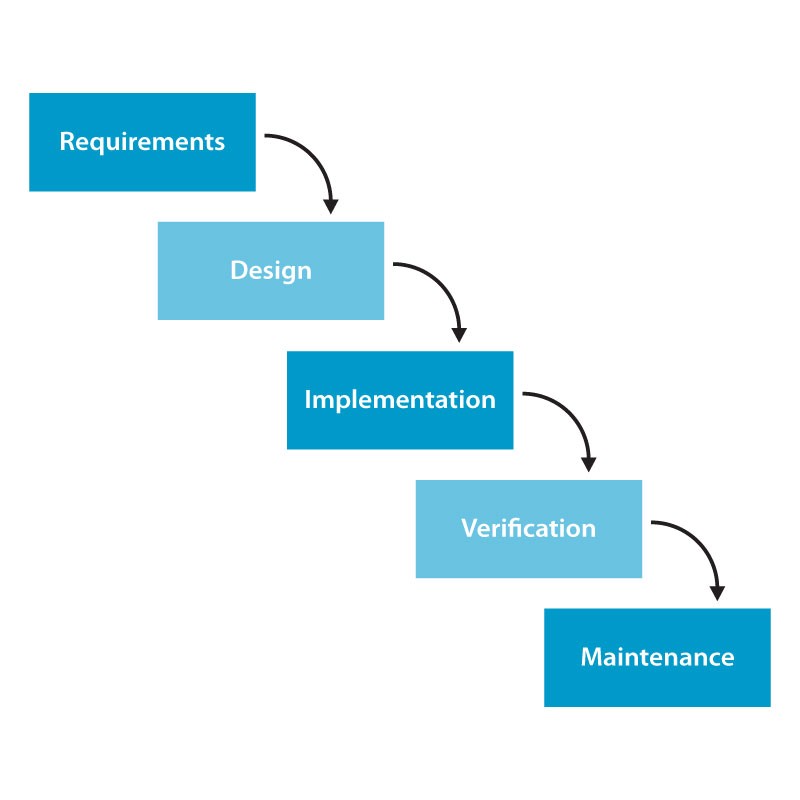
Hardware specifications:

* 128MB RAM (min)
* HDD: 80GB (or more)
* Processor: Pentium 4 (or above)

Software specifications:

* OS: Windows XP(or above) \ Linux
* Front end: Java Run Time Environment – jdk1.8
* Back end: Navicat premium, Eclipse Indigo, MySQL server
* **System Development**

System development life cycle model (SDLC model)



* Requirement Stage: - In this stage we check the requirements needed to develop our ATM Banking management System Application
* Design Stage: - In this stage we plan the Design of our Application “ATM Banking Management System”
* Implementation stage: - In this implementation stage we Implement the whole programming and development of the software
* Verification stage: - In this stage we verify our application for any bugs and errors in the development stage
* Maintenance stage: - In maintenance stage we rectify those errors which are encountered in “verification Stage”

Chapter 2

**1.Cash Withdrawal :-**

It mainly used for withdrawal of cash as per customer demand. For any authorized ATM card holder the ATM system requests for its ATM no & PIN no then customer to login in their accounts, then amounts are given to system and customer can withdraw amount.

**2.Balance Enquiry :-**

It refers to enquiry of bank balance of an authorized ATM card holder account to check for the resulting balance after certain transactions.

**3.Mini Statement:-**

It refers to enquiry of last ten transaction of an authorized ATM card holder. It includes deposit & withdrawal amount of transaction and current available balance.

**4.PIN Change:-**

It refers to the Change of PIN no of an authorized ATM card holder. I require giving new PIN no. & confirm the new PIN no.

**5.Cash Deposit:-**

It mainly used for deposit cash amount to their bank account as per customer demand. It is easy process of deposit amount to their bank accounts without filling deposit sleep.

**6.Loan Information:-**

It mainly used for to give information about various bank loan rates to ATM card holder.

**Database Table Design**:-

The general theme behind a database is to handle information as an integrated whole. A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and effectively. After designing the input and output, the analyst must concentrate on database design or how data should be organized around user requirements. The general objective is to make information access, easy quick, inexpensive and flexible for other users. During database design the following objectives are concerned: -

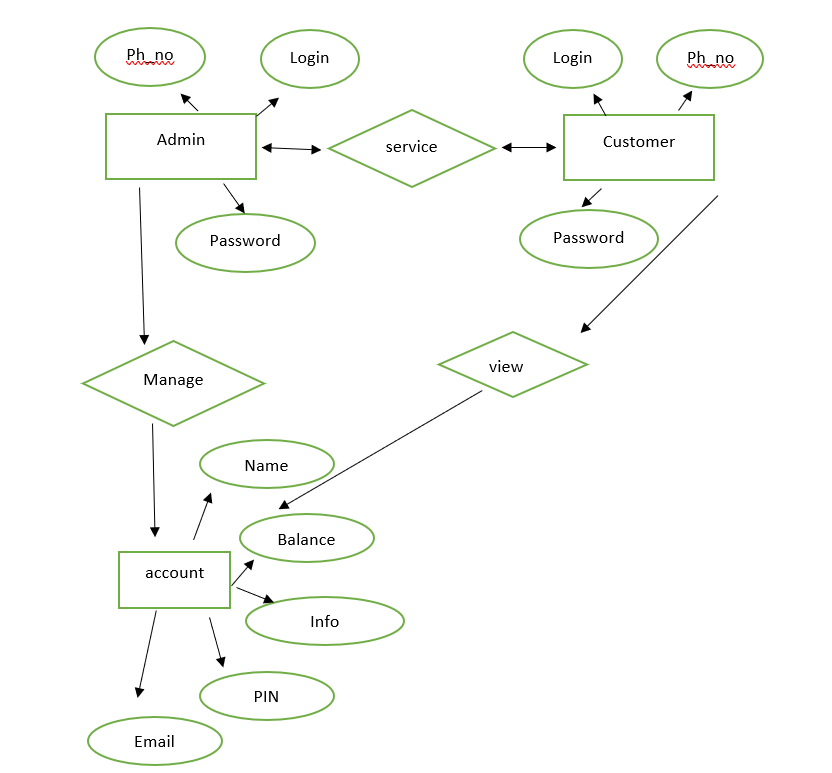
Controlled Redundancy

* + Easy to learn and use
  + More information and low cost
  + Accuracy
  + Integrity

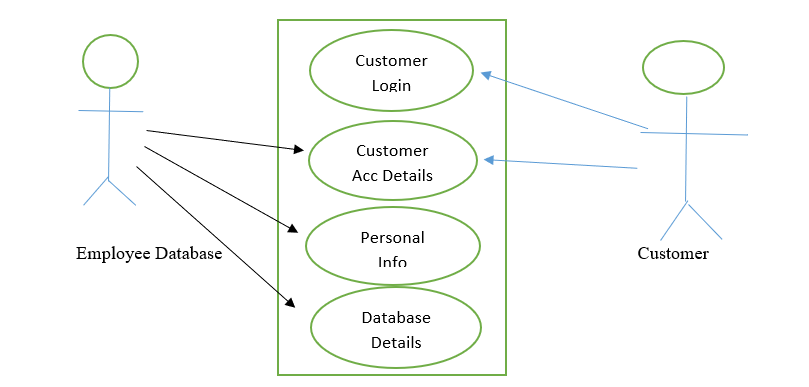
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Data type** | **Size** | **Constraint** | **Description** |
|  |  |  |  |  |
| name | varchar | 50 | Not Null | Name of the ATM card holder. |
|  |  |  |  |  |
| accountno | Int | 50 | Primary | Account no of ATM card holder. |
|  |  |  | Key |  |
|  |  |  |  |  |
| password | varchar | 50 | Not Null | PIN no of ATM card holder. |
|  |  |  |  |  |
| emailid | varchar | 50 | Not Null | User email-id. |
|  |  |  |  |  |
| city | varchar | 50 | Not Null | City preferred by the user. |
|  |  |  |  |  |
| gender | varchar | 50 | Not Null | Identify gender |
|  |  |  |  |  |
| amount | varchar | 50 | Not Null | Amount is how much the user have |
|  |  |  |  |  |

Chapter 3

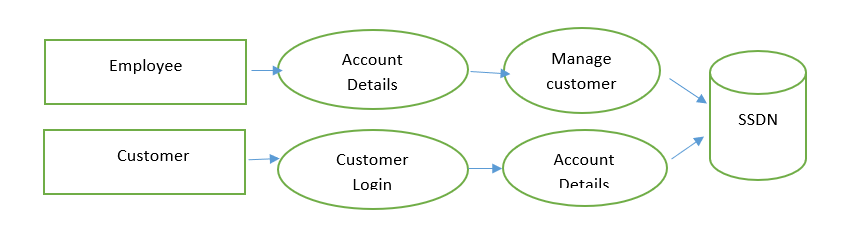
System Design

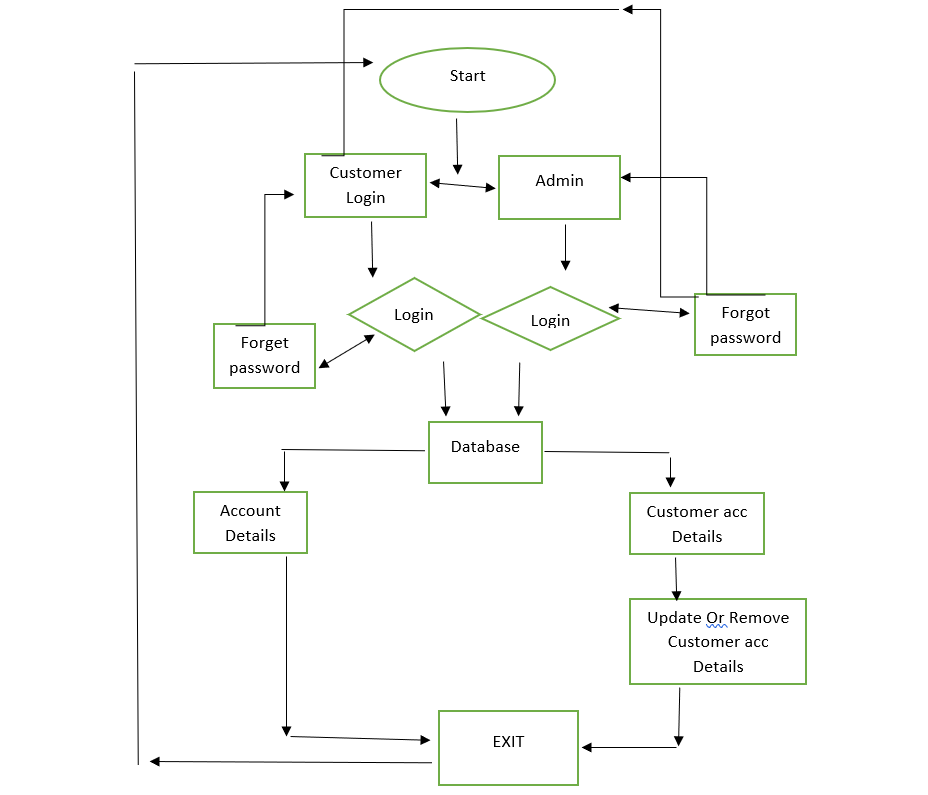
Entity relationship diagram

Use case diagram



DFD level 1,2





Level 2 DFD

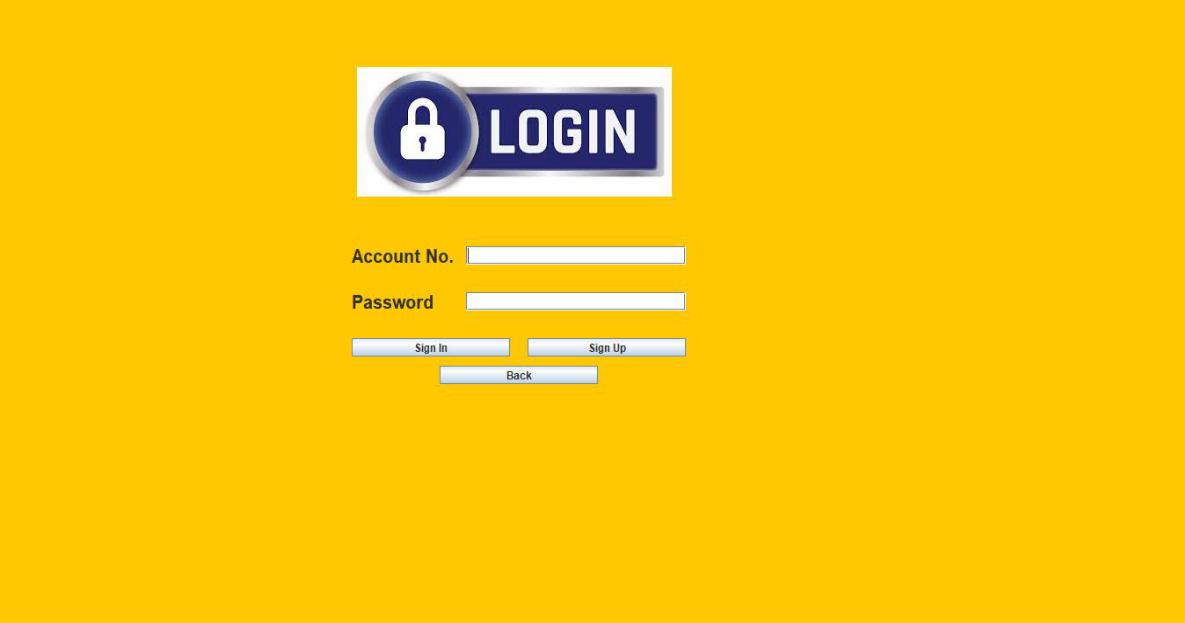
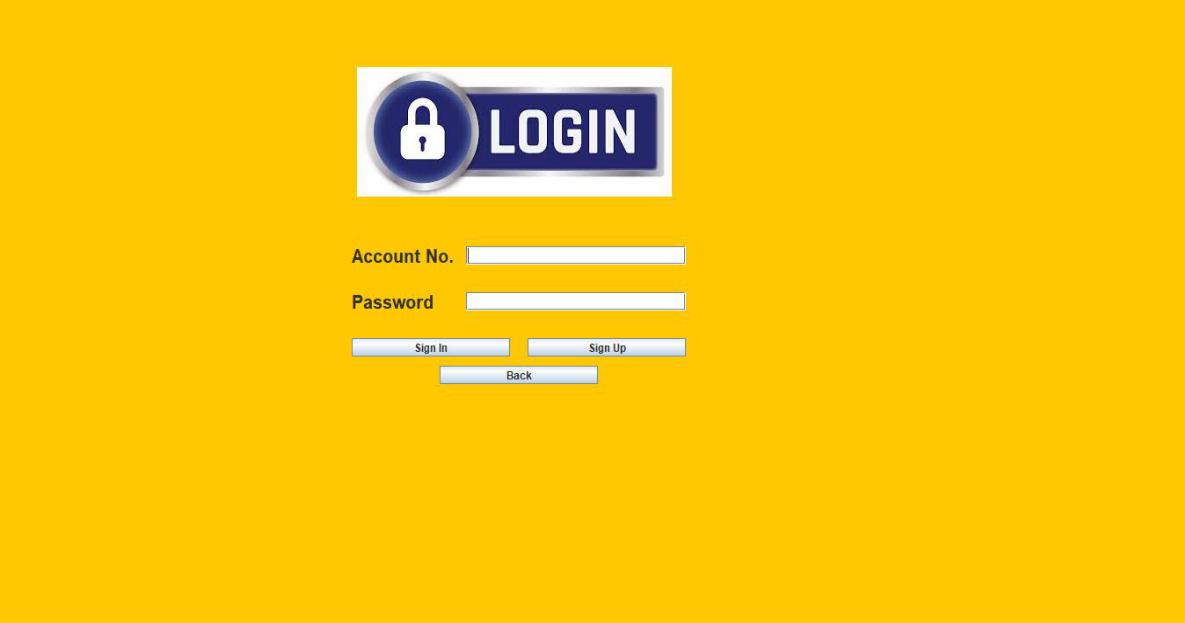
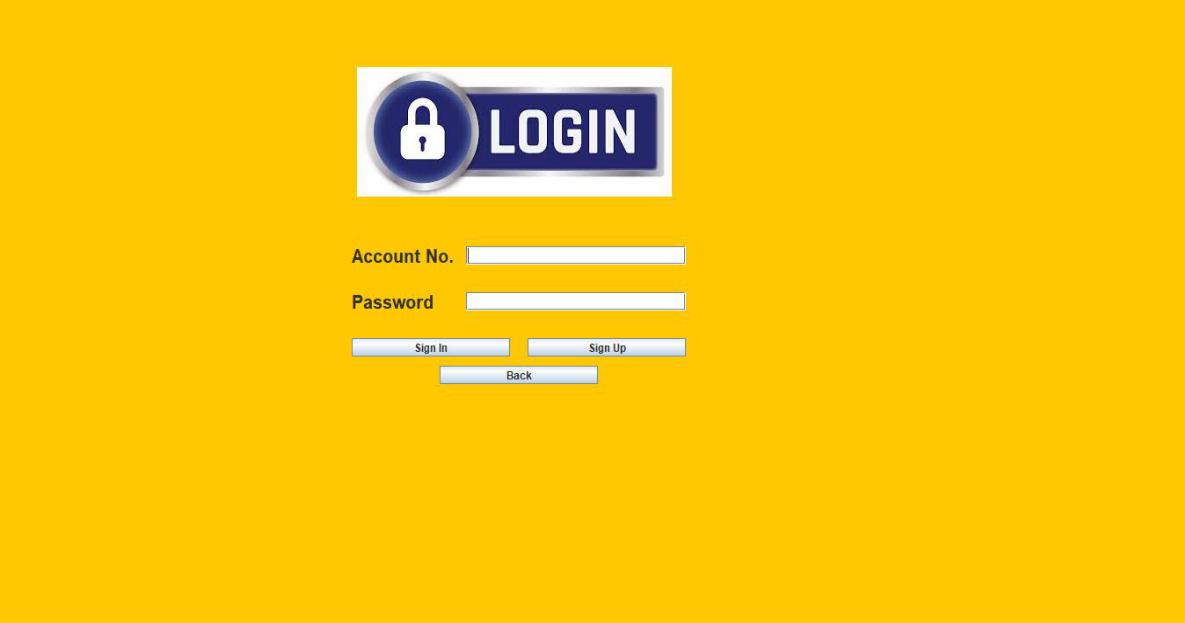
System Interface

Welcome screen

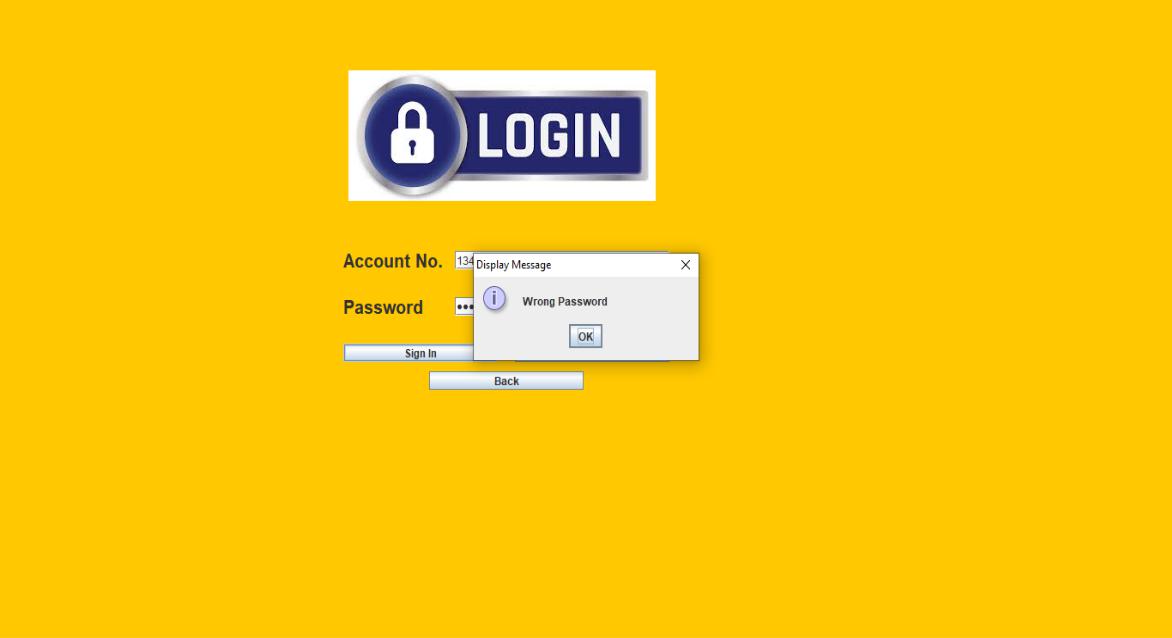
First page or welcome screen of this project



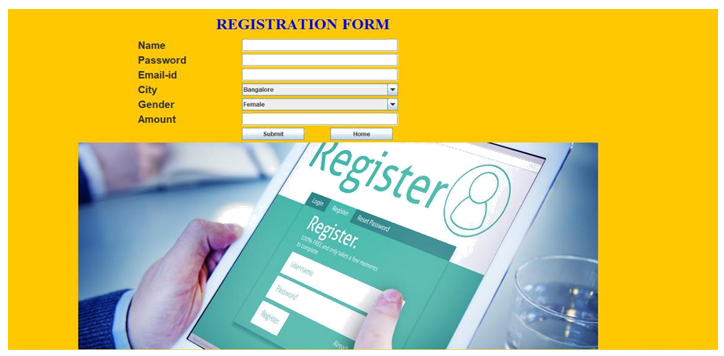
Login screen



Login screen: If you enter wrong password this dialogue box



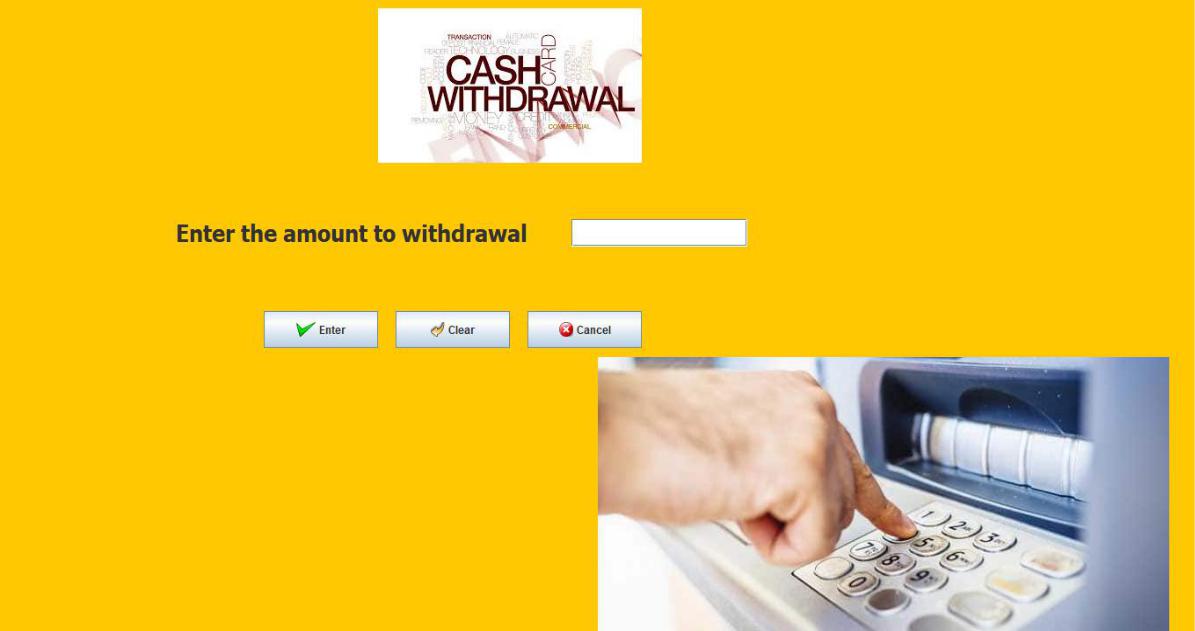
Registration Screen: To get registered we have to fill and details and if you have aregistered account then you can go back to the login screen.



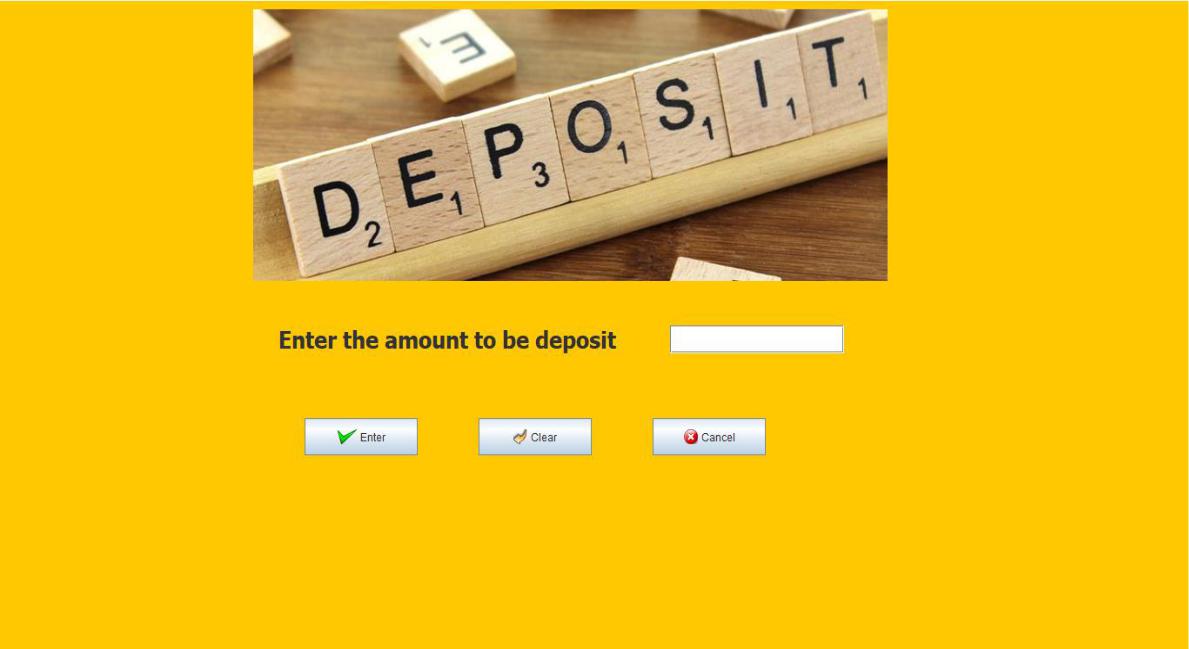
Transaction screen



Cash withdrawal screen: Enter the amount to withdrawal and press “enter”. If youwant to clear the amount withdrawal press “clear” and if you want to go back to the back-screen press “cancel”.



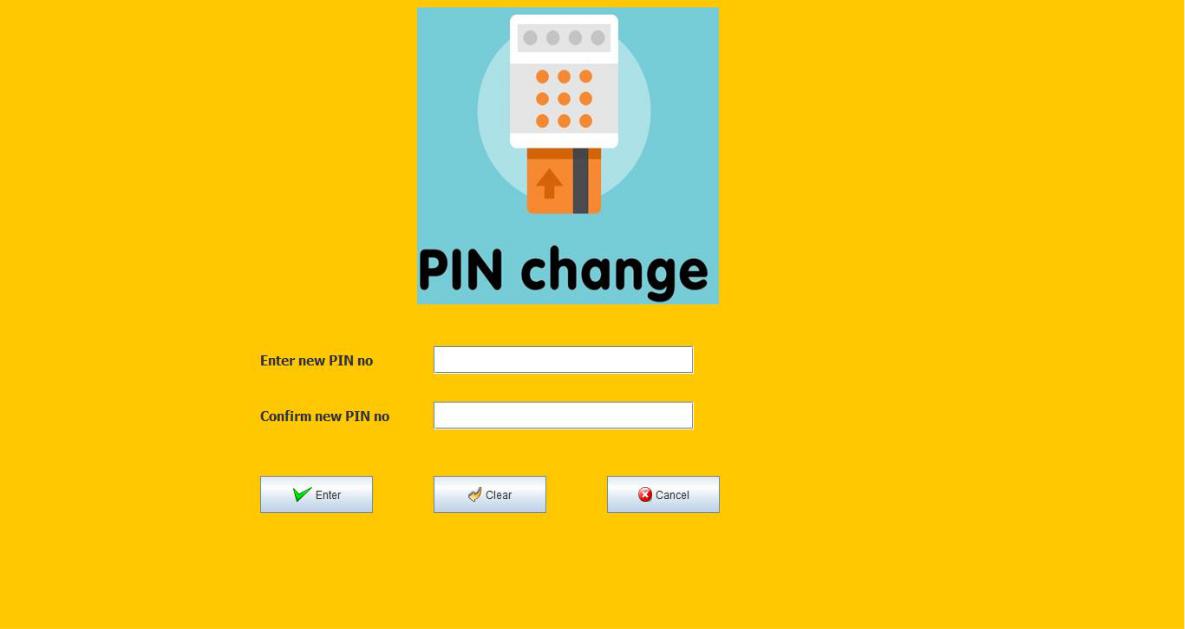
Cash deposit screen: Enter the amount to be deposit and press “enter”. If you want to clear the amount deposit press “clear” and if you want to go back to the back screen press “cancel”.



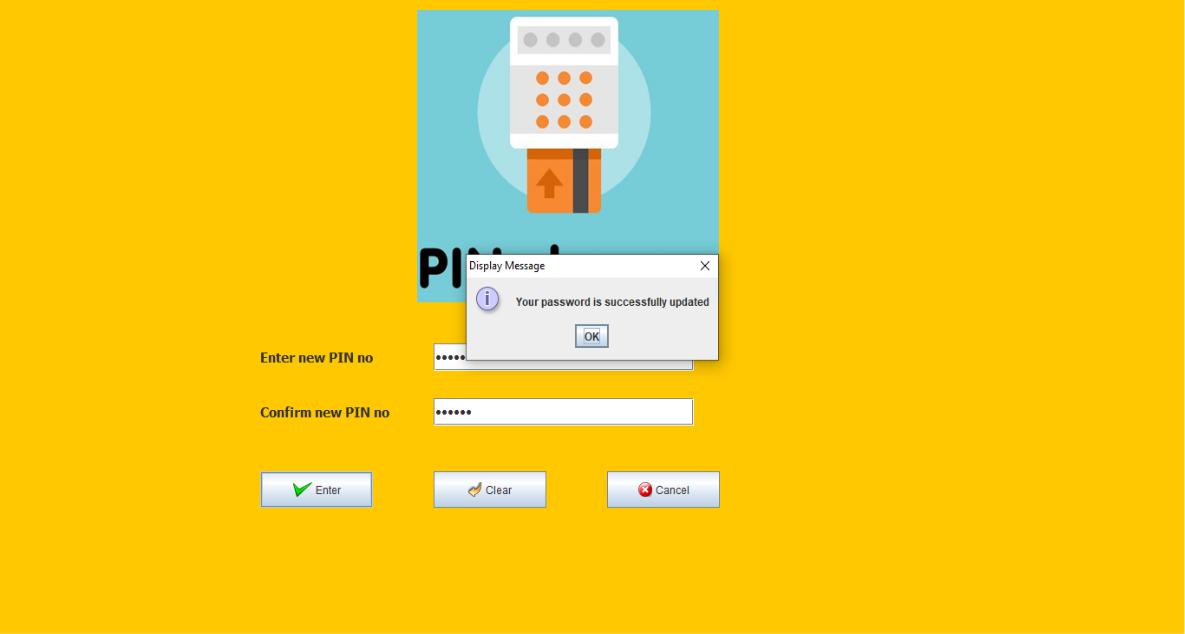
**Balance Enquiry screen:** Total balance will be displayed in a dialog box.



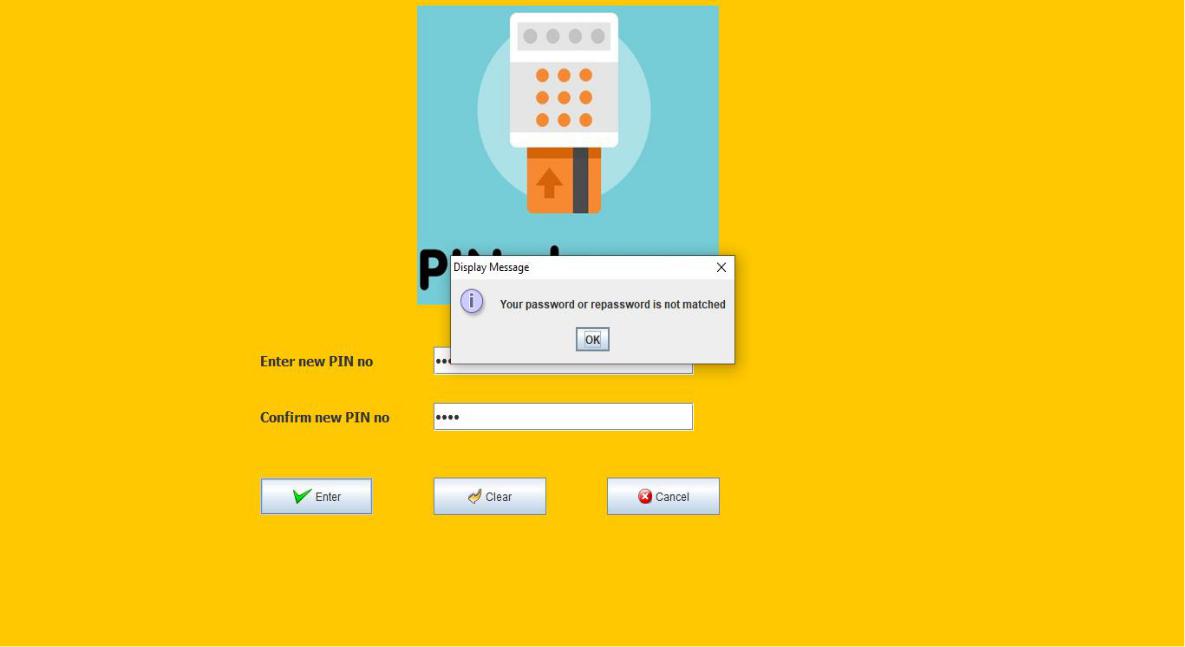
Pin Change screen: Enter new pin no. and confirm new pin no. to change the pin. After filling press “enter” to change. If you want to clear the pin entered press “clear”. You can also go back to the transaction menu if you don’t want to change the pin no.



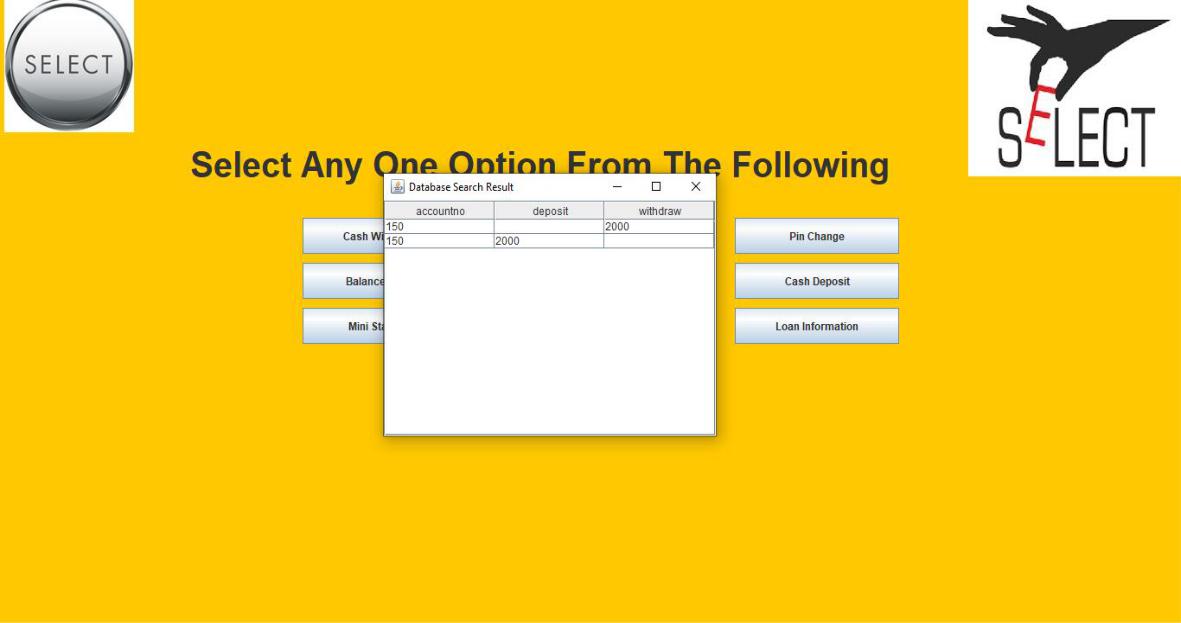
**PIN change screen:** Enter new & confirm pin no same then appear below screen.



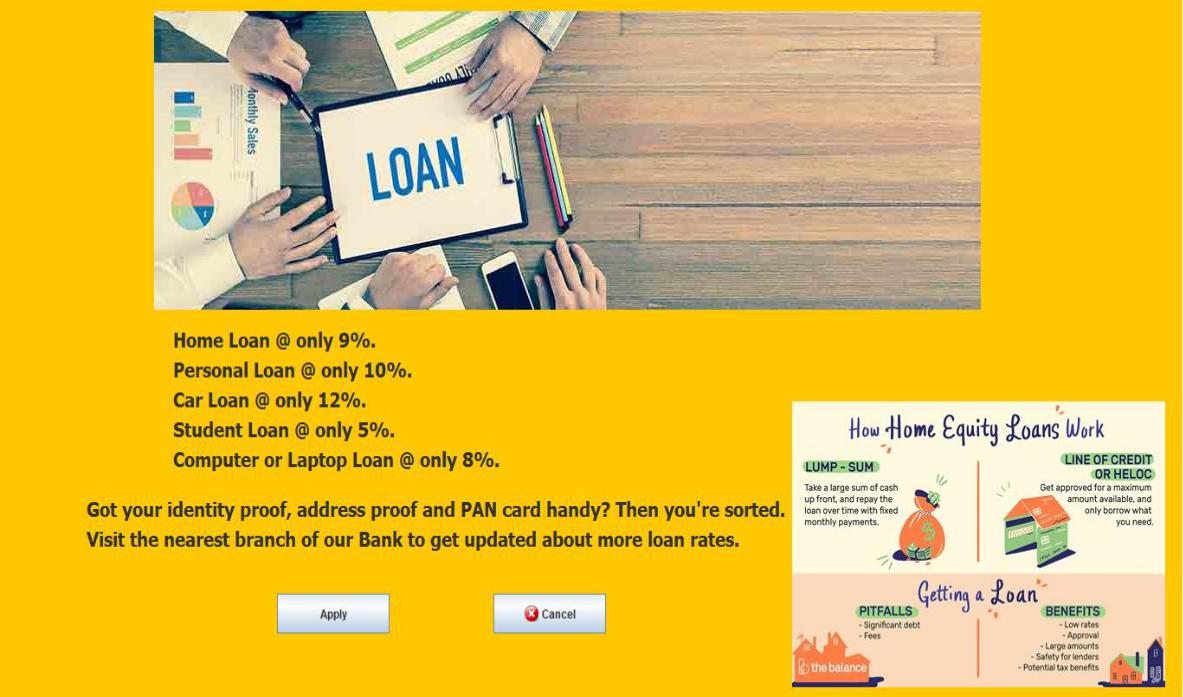
PIN change screen: If entered new & confirm pin no is not same then appear belowscreen with a message that your password or re-password is not matched.



Mini Statement screen: In mini statement screen the last transaction will be shown like deposit and withdrawal amount.



Loan Information: The details will be appeared in the screen. If you want to apply press “apply” or you can press “cancel” to go back to the previous screen.



Database design

Table Name: masters

Primary Key: accountno.

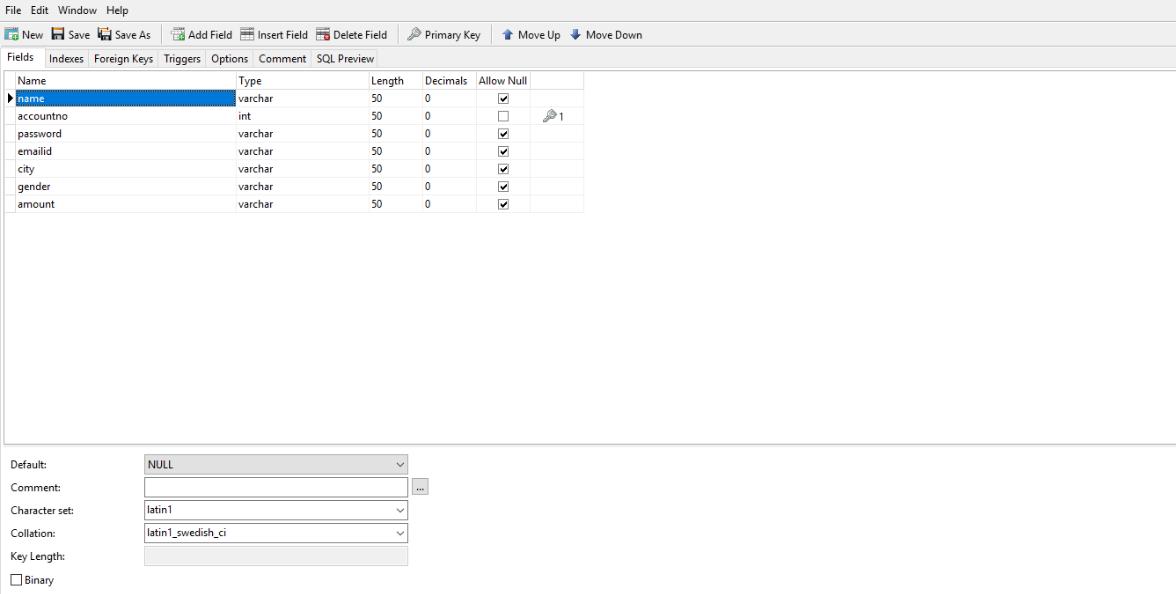
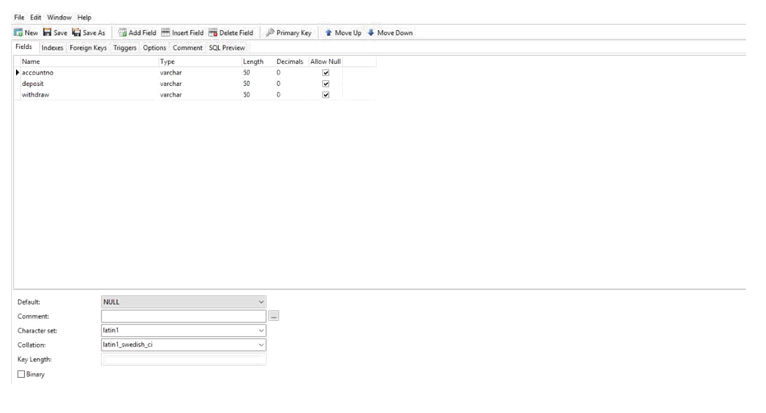


Table name: trans

Design



System development

Source code

import javax.swing.\*;

import java.sql.\*;

import java.awt.\*;

import java.awt.event.\*;

import javax.swing.JScrollPane;

import javax.swing.table.DefaultTableModel;

import java.io.\*;

import java.applet.\*;

public class atm1 implements ActionListener

{

JFrame f,frame1;

BorderLayout bl;

JTable table;

String acc= "";

String dep= "";

String with = "";

DefaultTableModel model;

JPanel mp,p1,p2,p3,p4,p7,p8,p9,p10,p11,p12;

JLabel

l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l17,l20,l21,l23,l24,l25,l26,l27,l28,l29,l30,l31,l32,l33,l3

4,l35,l36,l37,l38,l39,l40,l41,l42,l43,l44,l45,l46,l47,l48,l49,l50,l51,l52,l53,l54;

JTextField t1,t2,t8,t9,t10,t11,t12,t13,t14,t15,t16;

JPasswordField pf1,pf2,pf3,pf4;

Font

ff1,ff2,f1,f2,f3,f4,f5,f6,f7,f8,f13,f16,f17,f18,f19,f20,f21,f22,f23,f24,f25,f26,f27,f28,f29,f3

0,f31,f32,f33,f34,f35,f38,fa1,fa2,fa3,fa4,fa5,fa6,fa7;

JComboBox cb1,cb2;

ImageIcon

icon,ic,img1,icon1,icon2,icon3,icon4,icon5,icon6,icon7,icon8,icon9,icon10,icon11;

JScrollPane png;

String s1,s2,ss1,ss2,ss3,ss4,ss5,ss6,ss7,ss8,ss9,ss10,ss11,ss12,ss13,ss14;

Integer i1,i2,i3,i4;

JButton

b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b18,b19,b20,b21,b22,b23,b24,b25,b

26,b27,b28,b29;

CardLayout cl;

String s3,s4,s5,s6,s7,s8,s9,s10;

String sa1,sa2,sa3,sa4,sa5,sa6,sa7,sa9;

String[] columnNames = {"accountno", "deposit", "withdraw"};

public void a1()

{

f=new JFrame();

mp=new JPanel();

f.getContentPane().add(mp);

f.setVisible(true);

f.setSize(500,600);

f38 = new Font("SansSerif",Font.BOLD,20);

cl=new CardLayout();

mp.setLayout(cl);

//====================Panel 1====================

p1=new JPanel();

p1.setLayout(null);

icon=new ImageIcon("az2.jpg");

l11=new JLabel(icon);

l2=new JLabel("ATM Services");

l2.setFont(new Font("Times New Roman",Font.BOLD,50));

l2.setForeground(Color.BLUE);

l3=new JLabel("Press OK To Use ATM Service or Press Exit to quit");

l3.setFont(new Font("Times New Roman",Font.BOLD,30));

l3.setForeground(Color.RED);

b1=new JButton("Ok",new ImageIcon("ok.png")); b1.setFont(f1);

b1.addActionListener(this);

b2=new JButton("Exit",new ImageIcon("cancel.png")); b2.setFont(f2);

b2.addActionListener(this);

l11.setBounds(10,50,1350,300);

l2.setBounds(550,300,400,300);

l3.setBounds(350,350,800,350);

b1.setBounds(500,580,130,40);

b2.setBounds(850,580,130,40);

p1.setBackground(Color.orange);

p1.add(l11);

p1.add(l2);

p1.add(l3);

p1.add(b1);

p1.add(b2);

//====================Panel 2====================

p2=new JPanel();

p2.setLayout(null);

icon1=new ImageIcon("login.jpeg");

l44=new JLabel(icon1);

l5=new JLabel("Account No.");

Font f4=new Font("Arial Rounded MT",Font.BOLD,20); l5.setFont(f4);

l6=new JLabel("Password");

Font f5=new Font("Arial Rounded MT",Font.BOLD,20); l6.setFont(f5);

t1=new JTextField(50);

pf1=new JPasswordField(50);

b3=new JButton("Sign In");

b3.addActionListener(this);

b4=new JButton("Sign Up");

b4.addActionListener(this);

b28=new JButton("Back");

b28.addActionListener(this);

l44.setBounds(10,5,1150,300);

l5.setBounds(400,280,250,20);

t1.setBounds(530,280,250,20);

l6.setBounds(400,330,250,20);

pf1.setBounds(530,330,250,20);

b3.setBounds(400,380,180,20);

b4.setBounds(600,380,180,20);

b28.setBounds(500,410,180,20);

p2.setBackground(Color.orange);

p2.add(l44);

p2.add(l5);

p2.add(l6);

p2.add(b28);

p2.add(t1);

p2.add(pf1);

p2.add(b3);

p2.add(b4);

//====================Panel 3====================

p3=new JPanel();

p3.setLayout(null);

icon3=new ImageIcon("select.jpg");

l46=new JLabel(icon3);

icon4=new ImageIcon("select1.jpg");

l47=new JLabel(icon4);

l7=new JLabel("Select Any One Option From The Following"); Font f6=new Font("Gill Sans",Font.BOLD,40); l7.setFont(f6);

b5=new JButton("Cash Withdrawal");

b5.addActionListener(this);

b6=new JButton("Balance Enquiry");

b6.addActionListener(this);

b7=new JButton("Mini Statement");

b7.addActionListener(this);

b8=new JButton("Pin Change");

b8.addActionListener(this);

b9=new JButton("Cash Deposit");

b9.addActionListener(this);

b10=new JButton("Loan Information");

b10.addActionListener(this);

b11=new JButton("Help");

b11.addActionListener(this);

b12=new JButton("Cancel",new ImageIcon("cancel.png")); b12.addActionListener(this);

l46.setBounds(5,5,150,150);

l47.setBounds(5,5,2485,200);

l7.setBounds(220,150,900,80);

b5.setBounds(350,250,190,40);

b6.setBounds(350,300,190,40);

b7.setBounds(350,350,190,40);

b8.setBounds(850,250,190,40);

b9.setBounds(850,300,190,40);

b10.setBounds(850,350,190,40);

b11.setBounds(600,400,190,40);

b12.setBounds(600,450,190,40);

p3.setBackground(Color.orange);

p3.add(l7);

p3.add(l46);

p3.add(l47);

p3.add(b5);

p3.add(b6);

p3.add(b7);

p3.add(b8);

p3.add(b9);

p3.add(b10);

p3.add(b11);

p3.add(b12);

//====================Panel 4====================

p4=new JPanel();

p4.setLayout(null);

icon5=new ImageIcon("images.jpeg");

l9=new JLabel(icon5);

icon6=new ImageIcon("cash1.jpg");

l48=new JLabel(icon6);

l10=new JLabel("Enter the amount to withdrawal"); Font f8=new Font("Tahoma",Font.BOLD,25); l10.setFont(f8);

t2=new JTextField(50);

b13=new JButton("Enter",new ImageIcon("ok.png")); b13.addActionListener(this);

b14=new JButton("Clear",new ImageIcon("clear.png")); b14.addActionListener(this);

b15=new JButton("Cancel",new ImageIcon("cancel.png")); b15.addActionListener(this);

l9.setBounds(5,5,1150,200);

l48.setBounds(5,400,2000,300);

l10.setBounds(200,250,400,30);

t2.setBounds(650,250,200,30);

b13.setBounds(300,350,130,40);

b14.setBounds(450,350,130,40);

b15.setBounds(600,350,130,40);

p4.setBackground(Color.orange);

p4.add(l9);

p4.add(l48);

p4.add(l10);

p4.add(t2);

p4.add(b13);

p4.add(b14);

p4.add(b15);

//====================Panel 7====================

p7=new JPanel();

p7.setLayout(null);

icon7=new ImageIcon("pin.png");

l49=new JLabel(icon7);

l20=new JLabel("Enter new PIN no");

Font f16=new Font("Tahoma",Font.BOLD,15);

l20.setFont(f16);

l21=new JLabel("Confirm new PIN no");

Font f17=new Font("Tahoma",Font.BOLD,15);

l21.setFont(f17);

pf3=new JPasswordField(50);

pf4=new JPasswordField(50);

b18=new JButton("Enter",new ImageIcon("ok.png")); b18.setFont(f18);

b18.addActionListener(this);

b19=new JButton("Clear",new ImageIcon("clear.png")); b19.setFont(f19);

b19.addActionListener(this);

b20=new JButton("Cancel",new ImageIcon("cancel.png")); b20.setFont(f20);

b20.addActionListener(this);

l49.setBounds(5,0,1300,350);

l20.setBounds(300,380,300,30);

pf3.setBounds(500,380,300,30);

l21.setBounds(300,440,300,30);

pf4.setBounds(500,440,300,30);

b18.setBounds(300,520,130,40);

b19.setBounds(500,520,130,40);

b20.setBounds(700,520,130,40);

p7.setBackground(Color.orange);

p7.add(l49);

p7.add(l20);

p7.add(l21);

p7.add(pf3);

p7.add(pf4);

p7.add(b18);

p7.add(b19);

p7.add(b20);

//====================Panel 8====================

p8=new JPanel();

p8.setLayout(null);

icon8=new ImageIcon("deposit1.png");

l50=new JLabel(icon8);

l23=new JLabel("Enter the amount to be deposit"); Font ff2=new Font("Tahoma",Font.BOLD,25);

l23.setFont(ff2);

t9=new JTextField(50);

b21=new JButton("Enter",new ImageIcon("ok.png")); b21.setFont(f22);

b21.addActionListener(this);

b22=new JButton("Clear",new ImageIcon("clear.png")); b22.setFont(f23);

b22.addActionListener(this);

b23=new JButton("Cancel",new ImageIcon("cancel.png")); b23.setFont(f24);

b23.addActionListener(this);

l50.setBounds(5,5,1300,300);

l23.setBounds(320,350,400,30);

t9.setBounds(770,350,200,30);

b21.setBounds(350,450,130,40);

b22.setBounds(550,450,130,40);

b23.setBounds(750,450,130,40);

p8.setBackground(Color.orange);

p8.add(l50);

p8.add(l23);

p8.add(t9);

p8.add(b21);

p8.add(b22);

p8.add(b23);

//====================Panel 9====================

p9=new JPanel();

p9.setLayout(null);

icon9=new ImageIcon("loan.jpg");

l24=new JLabel(icon9);

l24.setBounds(5,15,1300,300);

p9.add(l24);

icon10=new ImageIcon("loan1.jpg");

l54=new JLabel(icon10);

l54.setBounds(5,400,2250,300);

p9.add(l54);

l25=new JLabel("Home Loan @ only 9%.");

Font fa1=new Font("Tahoma",Font.BOLD,20);

l25.setFont(fa1);

l25.setBounds(200,330,800,30);

p9.add(l25);

l26=new JLabel("Personal Loan @ only 10%.");

Font fa2=new Font("Tahoma",Font.BOLD,20);

l26.setFont(fa2);

l26.setBounds(200,360,800,30);

p9.add(l26);

l27=new JLabel("Car Loan @ only 12%.");

Font fa3=new Font("Tahoma",Font.BOLD,20);

l27.setFont(fa3);

l27.setBounds(200,390,800,30);

p9.add(l27);

l28=new JLabel("Student Loan @ only 5%.");

Font fa4=new Font("Tahoma",Font.BOLD,20);

l28.setFont(fa4);

l28.setBounds(200,420,800,30);

p9.add(l28);

l51=new JLabel("Computer or Laptop Loan @ only 8%."); Font fa5=new Font("Tahoma",Font.BOLD,20); l51.setFont(fa5);

l51.setBounds(200,450,800,30);

p9.add(l51);

l53=new JLabel("Got your identity proof, address proof and PAN card handy? Then you're sorted.");

Font fa7=new Font("Tahoma",Font.BOLD,20);

l53.setFont(fa7);

l53.setBounds(100,500,1000,30);

p9.add(l53);

l52=new JLabel("Visit the nearest branch of our Bank to get updated about more loan rates.");

Font fa6=new Font("Tahoma",Font.BOLD,20);

l52.setFont(fa6);

l52.setBounds(100,530,800,30);

p9.add(l52);

b24=new JButton("Apply");

b24.setBounds(320,600,130,40);

b24.addActionListener(this);

p9.add(b24);

b25=new JButton("Cancel",new ImageIcon("cancel.png"));

b25.setBounds(570,600,130,40);

b25.addActionListener(this);

p9.add(b25);

p9.setBackground(Color.orange);

//====================Panel 10====================

p10=new JPanel();

p10.setLayout(null);

icon11=new ImageIcon("help.png");

l29=new JLabel(icon11);

l29.setBounds(5,5,1300,300);

p10.add(l29);

l30=new JLabel("1. Cash withdrawal options used to getting money

from the ATM.");

Font f27=new Font("Tahoma",Font.BOLD,20);

l30.setFont(f27);

l30.setBounds(300,350,670,25);

p10.add(l30);

l31=new JLabel("2. Balance enquiry used to display and print your

balance.");

Font f28=new Font("Tahoma",Font.BOLD,20);

l31.setFont(f28);

l31.setBounds(300,380,670,25);

p10.add(l31);

l32=new JLabel("3. Mini statement used to print your balance."); Font f29=new Font("Tahoma",Font.BOLD,20);

l32.setFont(f29);

l32.setBounds(300,410,650,25);

p10.add(l32);

l33=new JLabel("4. PIN change option used to change PIN no of

ATM card.");

Font f30=new Font("Tahoma",Font.BOLD,20);

l33.setFont(f30);

l33.setBounds(300,440,670,25);

p10.add(l33);

l34=new JLabel("5. Loan information option used to give various

loan rate.");

Font f31=new Font("Tahoma",Font.BOLD,20);

l34.setFont(f31);

l34.setBounds(300,470,650,25);

p10.add(l34);

l35=new JLabel("6. For more information Visit our your nearest branch of our Bank.");

Font f32=new Font("Tahoma",Font.BOLD,20);

l35.setFont(f32);

l35.setBounds(300,500,700,25);

p10.add(l35);

l36=new JLabel("This ATM software developed by: MEGHA

BEDI");

l36.setFont(new Font("Times New Roman",Font.BOLD,30));

l36.setForeground(Color.BLUE);

l36.setBounds(280,550,1000,50);

p10.add(l36);

p10.setBackground(Color.orange);

b26=new JButton("Cancel",new ImageIcon("cancel.png")); b26.setFont(f34);

b26.addActionListener(this);

b26.setBounds(540,620,130,40);

b26.addActionListener(this);

p10.add(b26);

//====================Panel 11====================

p11=new JPanel();

p11.setLayout(null);

icon2=new ImageIcon("online.jpg");

l45=new JLabel(icon2);

l37=new JLabel("REGISTRATION FORM");

l37.setFont(new Font("Times New Roman",Font.BOLD,30));

l37.setForeground(Color.BLUE);

l38=new JLabel("Name");

l38.setFont(f38);

l39=new JLabel("Password");

l39.setFont(f38);

l40=new JLabel("Email-id");

l40.setFont(f38);

l41=new JLabel("City");

l41.setFont(f38);

l42=new JLabel("Gender");

l42.setFont(f38);

l43=new JLabel("Amount");

l43.setFont(f38);

t13=new JTextField(30);

t14=new JTextField(30);

t15=new JTextField(30);

pf2=new JPasswordField(30);

String

s1[]={"Delhi","Mumbai","Maharashtra","Bangalore","Karnataka","Hyderabad","Ahmeda

bad","Gujarat","Chennai","Tamil Nadu","Jaipur","Rajasthan","Lucknow","Uttar

Pradesh","Kanpur","Uttar Pradesh"};

cb1=new JComboBox(s1);

String s2[]={"Male","Female"};

cb2=new JComboBox(s2);

b27=new JButton("Submit");

b27.addActionListener(this);

b29=new JButton("Home");

b29.addActionListener(this);

l45.setBounds(10,280,1250,420);

l37.setBounds(400,20,800,40);

l38.setBounds(250,70,300,25);

t13.setBounds(450,70,300,25);

l39.setBounds(250,100,300,25);

pf2.setBounds(450,100,300,25);

l40.setBounds(250,130,300,25);

t14.setBounds(450,130,300,25);

l41.setBounds(250,160,300,25);

cb1.setBounds(450,160,300,25);

l42.setBounds(250,190,300,25);

cb2.setBounds(450,190,300,25);

l43.setBounds(250,220,300,25);

t15.setBounds(450,220,300,25);

b27.setBounds(450,250,120,25);

b29.setBounds(620,250,120,25);

p11.setBackground(Color.orange);

p11.add(l37);

p11.add(l45);

p11.add(l38);

p11.add(l39);

p11.add(l40);

p11.add(l41);

p11.add(l42);

p11.add(l43);

p11.add(t13);

p11.add(t14);

p11.add(t15);

p11.add(cb1);

p11.add(cb2);

p11.add(pf2);

p11.add(b27);

p11.add(b29);

//====================add sub panel into main Panel====================

mp.add(p1,"aa");

mp.add(p2,"bb");

mp.add(p3,"cc");

mp.add(p4,"dd");

mp.add(p7,"gg");

mp.add(p8,"hh");

mp.add(p9,"ii");

mp.add(p10,"jj");

mp.add(p11,"kk");

}

public void actionPerformed(ActionEvent ae)

{

if(ae.getSource()==b4)

{

cl.show(mp,"kk");

}

if(ae.getSource()==b27)

{

String S1="";

s3=new String(t13.getText());

s5=new String(pf2.getText());

s6=new String(t14.getText());

s7=(String)cb1.getSelectedItem();

s8=(String)cb2.getSelectedItem();

s9=new String(t15.getText());

//System.out.print(s3+s4+s5+s6+s7+s8+s9);

try

{

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

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456");

PreparedStatement ps=con.prepareStatement("insert into masters (name,password,emailid,city,gender,amount)values('"+s3+"','"+s5+"','"+s6+"','"+s7+"','"+s 8+"','"+s9+"')");

ps.executeUpdate();

t13.setText(S1);

pf2.setText(S1);

t14.setText(S1);

t15.setText(S1);

}

catch(Exception e)

{

System.out.print("data base not found");

}

try

}

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

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("select accountno

from masters ORDER BY accountno DESC LIMIT 1 "); //ps.setString(1,s1);

ResultSet rs=ps.executeQuery();

while(rs.next())

{

String ss1=rs.getString(1);

//System.out.print(ss1);

JOptionPane.showMessageDialog(null,ss1,"YOUR ACCOUNT NO. IS:

",JOptionPane.INFORMATION\_MESSAGE);

}

cl.show(mp,"bb");

}

catch(Exception e)

{

System.out.print("Database not found");

}

}

if(ae.getSource()==b1)

{

cl.show(mp,"bb");

}

if(ae.getSource()==b3)

{

String SQ1="";

sa1=new String (t1.getText());

sa2=new String (pf1.getText());

try

{

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

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("select \* from masters

where accountno=? and password=?");

ps.setString(1,sa1);

ps.setString(2,sa2);

ResultSet rs=ps.executeQuery();

if(rs.next())

{

t1.setText(SQ1);

pf1.setText(SQ1);

cl.show(mp,"cc");

}

else

{

JOptionPane.showMessageDialog(null,"Wrong Password","Display Message",JOptionPane.INFORMATION\_MESSAGE); }

}

catch(Exception e)

{

System.out.print("Database not found");

}

}

if(ae.getSource()==b5)

{

cl.show(mp,"dd");

}

if(ae.getSource()==b13)

{

try

{

ss1=new String(t2.getText());

//System.out.print(ss1+ss2+"8888");

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

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("insert into

trans(accountno,withdraw) values('"+sa1+"','"+ss1+"')");

ps.executeUpdate();

t2.setText(ss3);

}

catch(Exception e)

{

System.out.print("data base not found");

}

try

{

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

Connection

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("select amount from

masters where accountno=?");

ps.setString(1,sa1);

ResultSet rs=ps.executeQuery();

while(rs.next())

{

ss4=rs.getString(1);

}

i1=Integer.parseInt(ss4);

i2=Integer.parseInt(ss1);

i3=i1-i2;

ss6=Integer.toString(i3);

}

catch(Exception e)

{

System.out.print("Database not found");

}

try

{

//s9=new String(t5.getText());

//System.out.print(s15+s9);

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

Connection

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456");

PreparedStatement ps=con.prepareStatement("update masters set amount='"+ss6+"' where accountno='"+sa1+"' ");

ps.executeUpdate();

cl.show(mp,"cc");

}

catch(Exception e)

{

System.out.print("Database not found");

}

}

if(ae.getSource()==b14)

{

String SS="";

t2.setText(SS);

}

if(ae.getSource()==b15)

{

//f.setVisible(false);

cl.show(mp,"cc");

}

if(ae.getSource()==b6)

{

try

{

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

Connection

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("select amount from

masters where accountno=?");

ps.setString(1,sa1);

ResultSet rs=ps.executeQuery();

while(rs.next())

{

String sa7=rs.getString(1);

//JOptionPane.showMessageDialog(null,"Total

Amount",JOptionPane.INFORMATION\_MESSAGE);

JOptionPane.showMessageDialog(null,sa7,"Total Balance In

RS.",JOptionPane.INFORMATION\_MESSAGE);

//System.out.print(sa3);

}

}

catch(Exception e)

{

System.out.print("Database not found");

}

}

if(ae.getSource()==b9)

{

cl.show(mp,"hh");

}

if(ae.getSource()==b21)

{

try

{

ss2=new String(t9.getText());

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

Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("insert into

trans(accountno,deposit) values('"+sa1+"','"+ss2+"')");

ps.executeUpdate();

t9.setText(ss3);

}

catch(Exception e)

{

System.out.print("data base not found");

}

try

{

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

Connection

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("select amount from

masters where accountno=?");

ps.setString(1,sa1);

ResultSet rs=ps.executeQuery();

while(rs.next())

{

sa3=rs.getString(1);

}

i1=Integer.parseInt(sa3);

i2=Integer.parseInt(ss2);

i3=i1+i2;

sa4=Integer.toString(i3);

}

catch(Exception e)

{

System.out.print("Database not found");

}

try

{

//s9=new String(t5.getText());

//System.out.print(s15+s9);

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

Connection

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("update masters set

amount='"+sa4+"' where accountno='"+sa1+"' ");

ps.executeUpdate();

cl.show(mp,"cc");

}

catch(Exception e)

{

System.out.print("Database not found");

}

}

if(ae.getSource()==b22)

{

String SS="";

t9.setText(SS);

}

if(ae.getSource()==b23)

{

//f.setVisible(false);

cl.show(mp,"cc");

}

if(ae.getSource()==b8)

{

cl.show(mp,"gg");

}

if(ae.getSource()==b29)

{

cl.show(mp,"bb");

}

if(ae.getSource()==b18)

{

String SQ2="";

sa5=new String(pf3.getText());

sa6=new String(pf4.getText());

if(sa5.equals(sa6))

{

String sss1=sa5;

try

{

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

Connection

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/atm", "root", "123456"); PreparedStatement ps=con.prepareStatement("update

masters set password='"+sss1+"' where accountno='"+sa1+"'"); ps.executeUpdate();

//boolean result=true;

JOptionPane.showMessageDialog(null,"Your password is

successfully updated","Display Message",JOptionPane.INFORMATION\_MESSAGE);

pf3.setText(SQ2);

pf4.setText(SQ2);

cl.show(mp,"cc");

}

catch(Exception e)

{

System.out.print("Database not found");

}

}

else

{

JOptionPane.showMessageDialog(null,"Your password or repassword is not matched","Display Message",JOptionPane.INFORMATION\_MESSAGE);

}

}

if(ae.getSource()==b19)

{

String SS1="";

pf3.setText(SS1);

pf4.setText(SS1);

}

if(ae.getSource()==b20)

{

//f.setVisible(false);

cl.show(mp,"cc");

}

if(ae.getSource()==b10)

{

cl.show(mp,"ii");

}

if(ae.getSource()==b24)

{

JOptionPane.showMessageDialog(null,"For more information Visit www.icicibank.com or call Toll free no 1800 2000 1211 ","Display Message",JOptionPane.INFORMATION\_MESSAGE); cl.show(mp,"cc");

}

if(ae.getSource()==b25)

{

cl.show(mp,"cc");

}

if(ae.getSource()==b11)

{

cl.show(mp,"jj");

}

if(ae.getSource()==b26)

{

cl.show(mp,"cc");

}

if(ae.getSource()==b28)

{

cl.show(mp,"aa");

}

if(ae.getSource()==b12)

{

cl.show(mp,"bb");

}

if(ae.getSource()==b2)

{

System.exit(0);

}

if(ae.getSource()==b7)

{

showTableData();

}

}

public void showTableData()

{

frame1 = new JFrame("Database Search Result");

frame1.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); frame1.setLayout(new BorderLayout());

//TableModel tm = new TableModel(); DefaultTableModel model = new DefaultTableModel(); model.setColumnIdentifiers(columnNames);

}

if(ae.getSource()==b11)

{

cl.show(mp,"jj");

}

if(ae.getSource()==b26)

{

cl.show(mp,"cc");

}

if(ae.getSource()==b28)

{

cl.show(mp,"aa");

}

if(ae.getSource()==b12)

{

cl.show(mp,"bb");

}

if(ae.getSource()==b2)

{

System.exit(0);

}

if(ae.getSource()==b7)

{

showTableData();

}

}

public void showTableData()

{

frame1 = new JFrame("Database Search Result");

frame1.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE); frame1.setLayout(new BorderLayout());

//TableModel tm = new TableModel(); DefaultTableModel model = new DefaultTableModel(); model.setColumnIdentifiers(columnNames);

else

{

System.out.println(i+" Records Found");

}

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null, e.getMessage(),"Error", JOptionPane.ERROR\_MESSAGE); }

frame1.add(scroll);

frame1.setVisible(true);

frame1.setSize(400,300);

}

public static void main(String[] args)

{

atm1 ob=new atm1();

ob.a1();

}

}

Chapter 5

**Summary**

An ATM is an electronic device which allows a bank’s customer to make cash withdrawal and check their account balance at any time without the need for a human teller. Many ATMs also allow depositing cash or cheques, transfer money between their banks. The World’s first ATM was installed in ENFIELD town in the London on June 27, 1967 by Barclays bank. ATMs are known by various other names including Automated Transaction Machine, automated banking machine, cash point (in Britain), money machine, bank machine, cash machine, hole-in-the-wall, Bancomat (in various countries in Europe and Russia), Multibanco (after a registered trade mark, in Portugal), and Any Time Money (in India).

**Conclusion**

As the banking sector computerize day to day, and ATM have become a part of modern banking system.

The banks in developing country adopt ATMs to improve their own internal process and also for increase facilities and services of their customers.

Now customers become aware about this machine. The growth of ATM rapidly high at the world wide level also in India.

This technology is simple, safe and secure and people feel satisfaction to use this.

**Scope**

As this is software it can be used by a wide variety of banks to automate the process of manually maintaining the records related to the each transaction of bank account holder. The main goal of this application is to provide very reliable & efficient service to bank account holder at any time & any location. This system will cover the following modules,

Cash Withdrawal

Balance Enquiry

Mini Statement

PIN Change

Cash Deposit

Loan Information