

A Project Report

On

# Banking System Master project

Ву

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**B.Tech** 

Batch: - 2020 - 4965

**Center:- Pune Chinchwad** 

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(School of coding)

### **Introduction:**

Banks have traditionally been in the forefront of harnessing technology to improve their products, services and efficiency. They have, over a long time, been using electronic and telecommunication networks for delivering a wide range of value added products and services. The delivery channels include direct dial – up connections, private networks, public networks etc and the devices include telephone, Personal Computers including the Automated Teller Machines, etc. With the popularity of PCs, easy access to Internet and World Wide Web (WWW), Internet is increasingly used by banks as a channel for receiving instructions and delivering their products and services to their customers. This form of banking is generally referred to as Internet Banking, although the range of products and services offered by different banks vary widely both in their content and sophistication.

#### **MODULE DESCRIPTION**

- 1). Applicant registration
- 2). Deposite Money
- 3). Withdraw Money
- 4)Delete Account Holder
- 5). Search Customer
- 6) View Account Holder

# **Software Requirements:**

FRONT END: HTML, JAVA SCRIPT

Technologies: CORE JAVA

DATABASE: SQL

Operating System: Windows XP/7/8/10

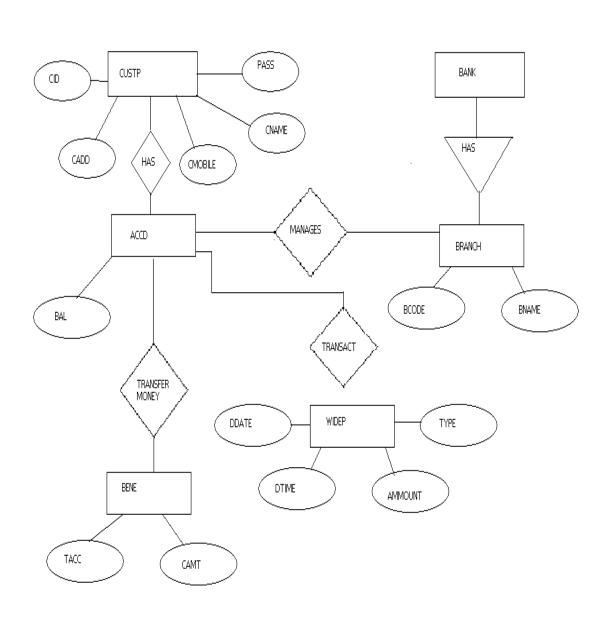
## **Hardware Requirements:**

Processor: Intel Pentium based system

Processor speed: 250 MHz to 833MHz

RAM SPEED: 1GB

# ERD (Entity Relationship Diagram):

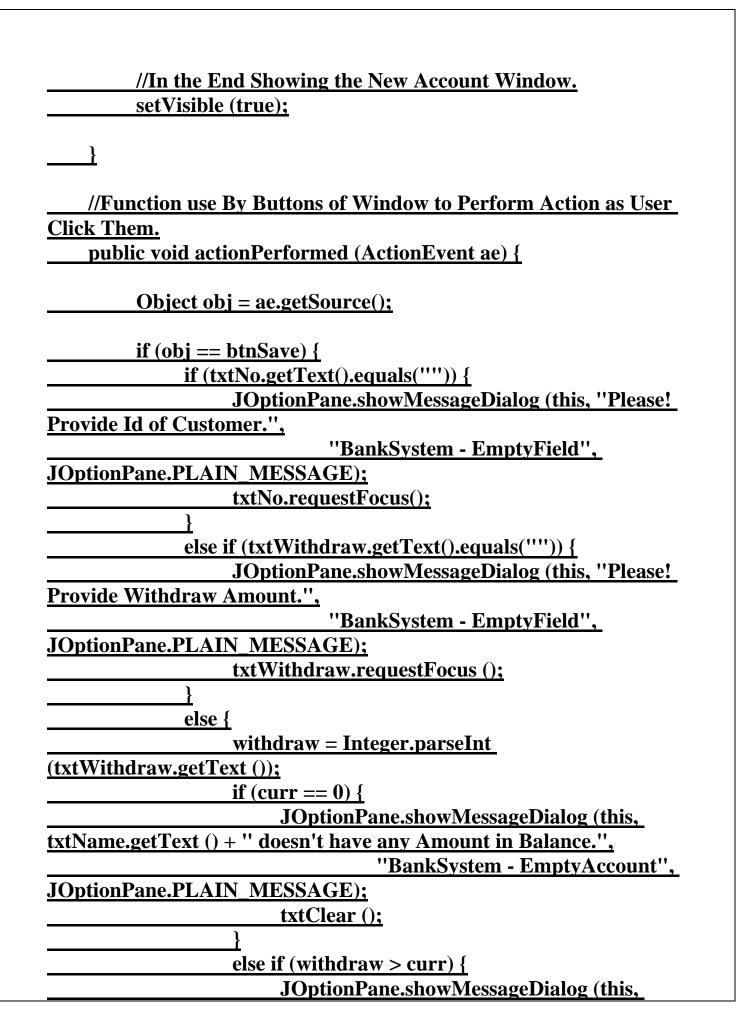


```
CODE:
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.io.*;
public class WithdrawMoney extends JInternalFrame implements
ActionListener {
    private JPanel jpWith = new JPanel();
    private JLabel lbNo, lbName, lbDate, lbWithdraw;
    private JTextField txtNo, txtName, txtWithdraw;
    private JComboBox cboMonth, cboDay, cboYear;
    private JButton btnSave, btnCancel;
   private int recCount = 0;
 private int rows = 0;
 private int total = 0;
  private int curr;
              int withdraw;
  private
    //String Type Array use to Load Records From File.
    private String records[][] = new String [500][6];
    private FileInputStream fis;
    private DataInputStream dis;
    WithdrawMoney () {
         // super(Title, Resizable, Closable, Maximizable,
Iconifiable)
         super ("Withdraw Money", false, true, false, true);
         setSize (335, 235);
         jpWith.setLayout (null);
         lbNo = new JLabel ("Account No:");
         lbNo.setForeground (Color.black);
```

lbNo.setBounds (15, 20, 80, 25);
lbName = new JLabel ("Person Name:");
lbName.setForeground (Color.black);
lbName.setBounds (15, 55, 80, 25);
lbDate = new JLabel ("With. Date:");
lbDate.setForeground (Color.black);
lbDate.setBounds (15, 90, 80, 25);
lbWithdraw = new JLabel ("With. Amount:");
lbWithdraw.setForeground (Color.black);
lbWithdraw.setBounds (15, 125, 80, 25);
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
txtNo.setHorizontalAlignment (JTextField.RIGHT);
//Checking the Accunt No. Provided By User on Lost Focus
of the TextBox.
txtNo.addFocusListener (new FocusListener () {
<pre>public void focusGained (FocusEvent e) { }</pre>
<pre>public void focusLost (FocusEvent fe) {</pre>
<pre>if (txtNo.getText().equals (""")) { }</pre>
else {
$\mathbf{rows} = 0;$
populateArray (); //Load All Existing
Records in Memory.
findRec (); //Finding if Account
No. Already Exist or Not.
<u> </u>
<u> </u>
<u> </u>
) <del>;</del>
<u>txtNo.setBounds (105, 20, 205, 25);</u>
<u>txtName = new JTextField ();</u>
<u>txtName.setEnabled (false);</u>
<u>txtName.setBounds (105, 55, 205, 25);</u>
<u>txtWithdraw = new JTextField ();</u>
txtWithdraw.setHorizontalAlignment
(JTextField.RIGHT);
<u>txtWithdraw.setBounds (105, 125, 205, 25);</u>

```
//Restricting The User Input to only Numerics in Numeric
TextBoxes.
         txtNo.addKeyListener (new KeyAdapter() {
              public void keyTyped (KeyEvent ke) {
                   char c = ke.getKeyChar ();
                   if (!((Character.isDigit (c) || (c ==
KeyEvent.VK BACK SPACE)))) {
                        getToolkit().beep ();
                        ke.consume();
         txtWithdraw.addKeyListener (new KeyAdapter() {
              public void keyTyped (KeyEvent ke) {
                   char c = ke.getKeyChar ();
                   if (!((Character.isDigit (c) || (c ==
KeyEvent.VK BACK SPACE)))) {
                        getToolkit().beep ();
                        ke.consume ();
        //Creating Date Option.
         String Months[] = {"January", "February", "March",
"April", "May", "June",
              "July", "August", "September", "October",
"November", "December"};
         cboMonth = new JComboBox (Months);
         cboDay = new JComboBox ();
         cboYear = new JComboBox ();
         for (int i = 1; i \le 31; i++) {
              String days = "" + i;
              cboDay.addItem (days);
```

for (int $i = 2000$ ; $i \le 2015$ ; $i++$ ) {
 String years = "" + i;
 cboYear.addItem (years);
<u> </u>
//Aligning The Date Option Controls.
cboMonth.setBounds (105, 90, 92, 25);
cboDay.setBounds (202, 90, 43, 25);
cboYear.setBounds (250, 90, 60, 25);
//Aligning The Buttons.
btnSave = new JButton ("Save");
 btnSave.setBounds (20, 165, 120, 25);
btnSave.addActionListener (this);
btnCancel = new JButton ("Cancel");
btnCancel.setBounds (185, 165, 120, 25);
btnCancel.addActionListener (this);
//Adding the All the Controls to Panel.
jpWith.add (lbNo);
jpWith.add (txtNo);
jpWith.add (lbName);
jpWith.add (txtName);
jpWith.add (lbDate);
jpWith.add (cboMonth);
jpWith.add (cboDay);
jpWith.add (cboYear);
jpWith.add (lbWithdraw);
jpWith.add (txtWithdraw);
jpWith.add (btnSave);
jpWith.add (btnCancel);
 //Adding Panel to Window.
getContentPane().add (jpWith);
populateArray (); //Load All Existing Records in

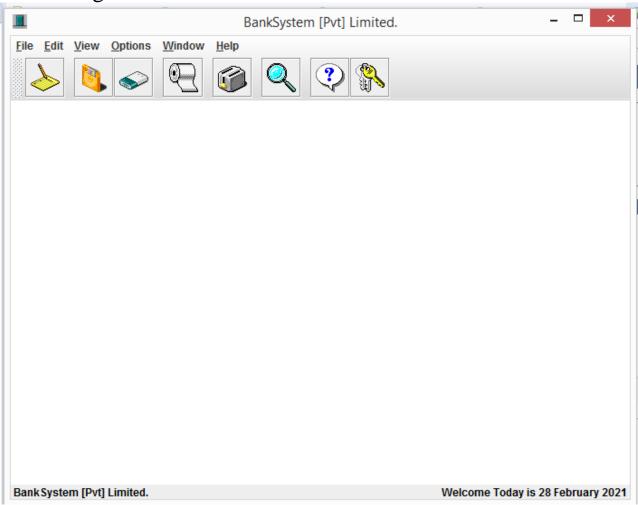


"Withdraw Amount can't greater than Actual Balance.",
"BankSystem - Large Amount",
JOptionPane.PLAIN_MESSAGE);
txtWithdraw.setText ("");
txtWithdraw.requestFocus ();
<u> </u>
<u>else {</u>
editRec ();//Update the Contents of Array.
<u> </u>
<u> </u>
<u> </u>
if (obj == btnCancel)
txtClear ();
setVisible (false);
dispose();
<u> </u>
}
//Function use to load all Records from File when Application
Execute.
void populateArray () {
try {
fis = new FileInputStream ("Bank.dat");
dis = new DataInputStream (fis);
//Loop to Populate the Array.
while (true) {
for (int $i = 0$ ; $i < 6$ ; $i++$ ) {
records[rows][i] = dis.readUTF();
}
rows++;
}
}
catch (Exception ex) {
total = rows;
if (total == 0)
JOptionPane.showMessageDialog (null,

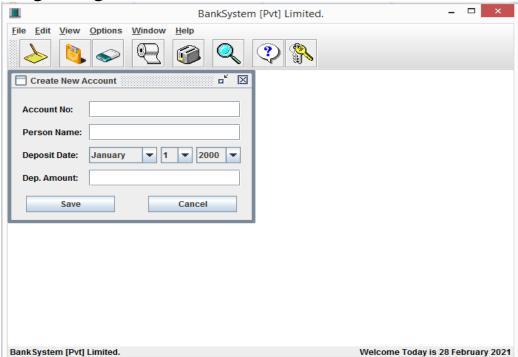
"Records File is Empty.\nEnter Records First to Display.",
"BankSystem - EmptyFile",
JOptionPane.PLAIN_MESSAGE);
btnEnable ();
}
else {
try {
dis.close();
fis.close();
}
catch (Exception exp) { }
}
}
}
//Function use to Find Record by Matching the Contents of
Records Array with ID TextBox.
void findRec () {
<b>boolean found = false</b> ;
for (int $x = 0$ ; $x < total$ ; $x++$ ) {
<pre>if (records[x][0].equals (txtNo.getText())) {</pre>
found = true;
showRec (x);
break;
}
<u>}</u>
$if (found == false) \{$
String $str = txtNo.getText()$ ;
txtClear ();
JOptionPane.showMessageDialog (this, "Account No.
" + str + " doesn't Exist.",
"BankSystem - WrongNo",
JOptionPane.PLAIN_MESSAGE);
}
ì

# Screenshots:-

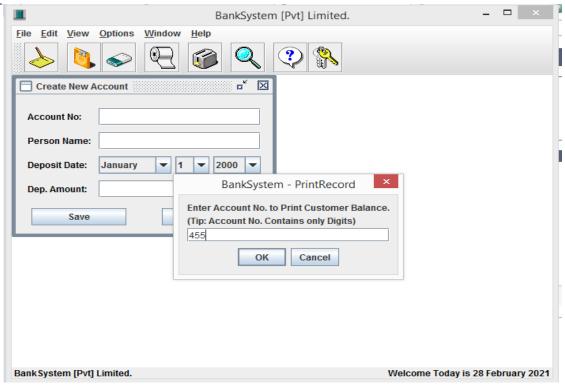
# Home Page:-



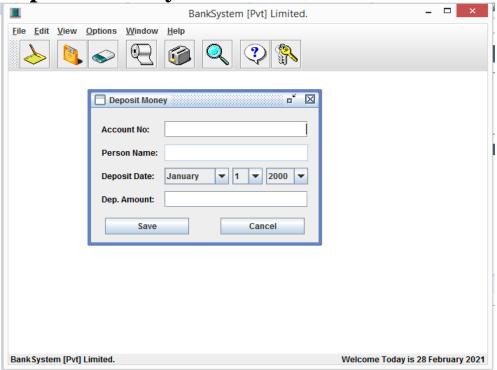
Login Page :-



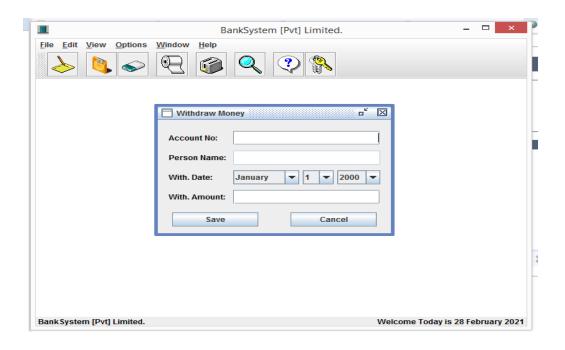
print record:



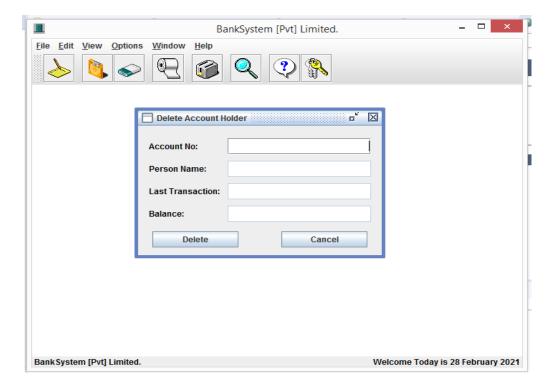
**Deposite money:** 



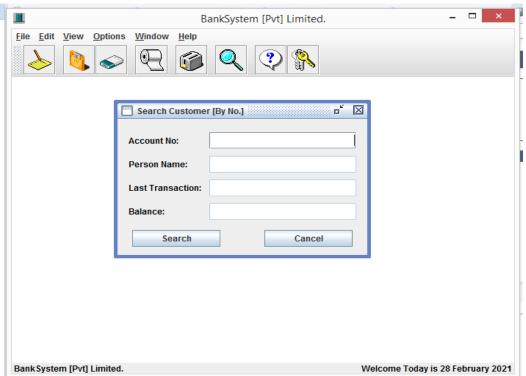
# withdraw money:



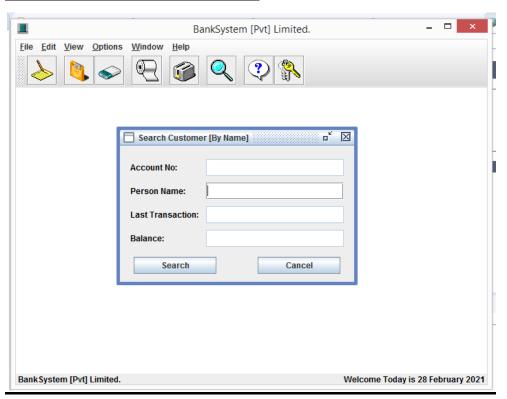
#### **Delete Account Holder:**



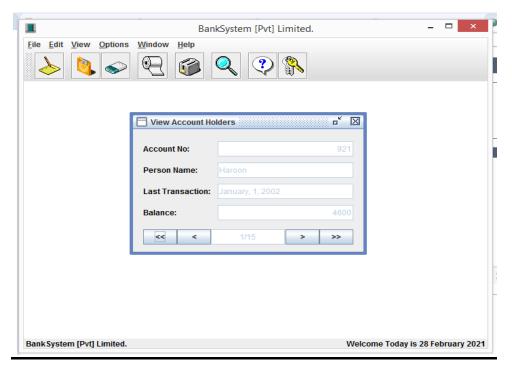
#### **Search Customer:**



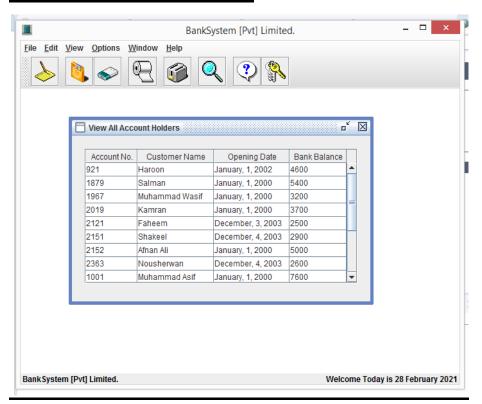
#### **Search Customer By Name:**



#### **View Account Holders:**



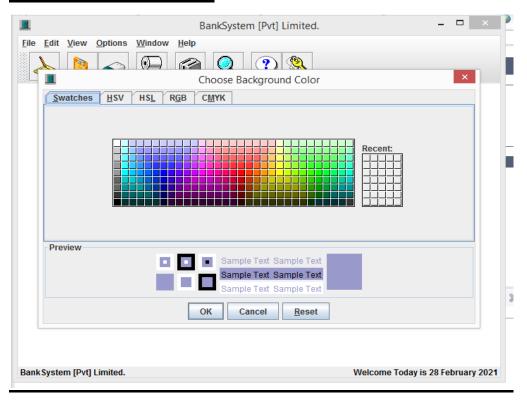
#### **View All Account Holders:**



#### **Change color:**



#### **Choose Background C**



<b>SCOPE</b>	OF ENHANCEMENT
The existence	may be updated or modified owing to its simple structure. This can further be used for
maintenance	of the ACCOUNT details for the customers and make the transaction easy for the
customers.	of the 110000111 details for the eastomers and make the transaction easy for the
custofficis.	

#### **CONCLUSION**

A INTERNET BANKING SYSYTEM has been developed and the system was tested with sample data.

The system results in regular timely preparations of required outputs. The system provides a user friendly environment for the customers to do banking without going to the bank itself, allows the facility like opening the new account, transferring the money and downloading the forms.