

## ADMIN CLASS

```
package com.Bank.App;

import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
import java.util.Scanner;

import com.Bank.DAO.CustomerDAO;
import com.Bank.DAO.CustomerDAOImpl;
import com.Bank.DAO.TransactionDAO;
import com.Bank.DAO.TransactionDAOImpl;
import com.Bank.DTO.Customer;
import com.Bank.DTO.Transaction;
import com.Bank.DTO.TransactionID;

public class Admin {
    public static void admin(Customer c) {
        Scanner sc=new Scanner(System.in);
        int choice=0;
        CustomerDAO cdao=new CustomerDAOImpl();
```

```
TransactionDAO tdao=new TransactionDAOImpl();
do {
    System.out.println("1. Get Account Data");
    System.out.println("2. Get Transaction List");
    System.out.println("3. Delete any user");
    System.out.println("4. Access your account");
    System.out.println("5. Back to main menu");
    choice=sc.nextInt();
    switch(choice)
    {
    case 1:{
        System.out.println("<====Customer Data====>");
        List<Customer> customers=cdao.getCustomer();
        Iterator<Customer> it=customers.iterator();
        while(it.hasNext())
        {
            Customer c1=it.next();
            System.out.println(c1);
        }
        break;
    }
}
```

```
case 2: {
    System.out.println("<====Transaction Data====>");
    List<Transaction>
transactions=tdao.getTransaction();
    Iterator<Transaction> it=transactions.iterator();
    while(it.hasNext())
    {
        Transaction t1=it.next();
        System.out.println(t1);
    }
    break;
}
case 3: {
    System.out.println("Enter the account number of the
user to be deleted:");
    Customer c1=cdao.getCustomer(sc.nextLong());

//getCustomer(long accno) already overridden in transferAmount
module inside CustomerDAOImpl

    if(c.getAccno()!=c1.getAccno())
```

```
{
    double amount=c1.getBal();
    c.setBal(c.getBal()+c1.getBal());
    boolean res1=cdao.updateCustomer(c);
//updateCustomer() already overridden in deposit module inside
CustomerDAOImpl

    if(res1)
    {
        Transaction t1=new Transaction();

        t1.setTransactionId(TransactionID.generateTransactionId());
        t1.setUser(c.getAccno());
        t1.setRec_acc(c1.getAccno());
        t1.setAmount(amount);
        t1.setTransaction("CREDITED");
        t1.setBalance(c.getBal());
        boolean res=tdao.insertTransaction(t1);

//insertTransaction() already overridden in deposit module inside
TransactionDAOImpl
```

```
        if(res1&&res)
        {
            System.out.println("Proceeding to
delete");

            cdao.deleteCustomer(c1);
        }
        else
        {
            System.out.println("Failed to delete");
        }

    }
    else
    {
        System.err.println("Failed to delete; amount
transfer failed from the customer account");
    }
}
else
{
    System.out.println("Cannot delete the admin
data");
}
```

```
        }  
        break;  
    }  
    case 4: App.options(c);  
    break;  
  
    case 5: System.out.println("Going back to main menu");  
    break;  
  
    default: System.out.println("Invalid choice. Enter the  
correct choice!");  
    }  
}  
while(choice!=5);  
}
```

//Override the below logic in CustomerDAOImpl class

```
@Override  
public List getCustomer() {  
    PreparedStatement ps=null;
```

```
ArrayList<Customer> customers=new ArrayList<Customer>();  
ResultSet rs=null;  
Customer c=null;  
String query="SELECT * FROM CUSTOMER";  
try {  
    ps=con.prepareStatement(query);  
    rs=ps.executeQuery();  
    while(rs.next())  
    {  
        c=new Customer();  
        c.setAccno(rs.getInt(1));  
        c.setName(rs.getString(2));  
        c.setPhone(rs.getLong(3));  
        c.setMail(rs.getString(4));  
        c.setBal(rs.getDouble(5));  
        c.setPin(rs.getInt(6));  
        customers.add(c);  
    }  
} catch (SQLException e) {  
    // TODO Auto-generated catch block  
    e.printStackTrace();  
}
```

```
    return customers;  
}
```

//Override the below logic in CustomerDAOImpl class

```
@Override  
public boolean deleteCustomer(Customer c) {  
    PreparedStatement ps=null;  
    int res=0;  
    String query="DELETE FROM CUSTOMER WHERE ACC_NO=?";  
    try {  
        con.setAutoCommit(false);  
        ps=con.prepareStatement(query);  
        ps.setLong(1, c.getAccno());  
        res=ps.executeUpdate();  
  
    } catch (SQLException e) {  
        // TODO Auto-generated catch block  
        e.printStackTrace();  
    }  
    if(res>0)
```



```
{
    try {
        con.commit();
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    return true;
}
else
{
    try {
        con.rollback();
    } catch (SQLException e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
    return false;
}
}
```

//Override the below logic in TransactionDAOImpl class

```
@Override
    public List getTransaction() {
        PreparedStatement ps=null;
        ResultSet rs=null;
        String query="SELECT * FROM PASSBOOK ORDER BY TRAN_DATE
desc";
        Transaction t=null;
        ArrayList<Transaction> passbook=new
ArrayList<Transaction>();
        try {
            ps=con.prepareStatement(query);
            rs=ps.executeQuery();
            while(rs.next())
            {
                t=new Transaction();
                t.setTransactionId(rs.getLong(1));
                t.setUser(rs.getLong(2));
                t.setRec_acc(rs.getLong(3));
                t.setDate(rs.getString(4));
                t.setTransaction(rs.getString(5));
            }
        }
    }
```

```
        t.setAmount(rs.getDouble(6));  
        t.setBalance(rs.getDouble(7));  
        passbook.add(t);  
    }  
} catch (SQLException e) {  
    // TODO Auto-generated catch block  
    e.printStackTrace();  
}  
return passbook;  
}
```