ONLINE BANKING SYSTEM

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Project objective

THE OBJECTIVE is to prepare a software or application, which could maintain data & provide a user friendly interface for retrieving customer related details just in few seconds, with 100%accuracy. Software is completely computerized, so it is not time consuming process. No paper work required & can be implemented further. The application should also facilitate the addition of new Customer A/c,& modification of existing customer A/C. To Search for every individual accounts for a particular customer, show all transaction.

The main goals of the proposed system are:-

- To allow only authorized user to access various functions and processed available in the system.
- Locate A/C wanted by the user.
- Reduced clerical work as most of the work done by computer.
- Provide greater speed & reduced time consumption. To increase the number of A/C and customer. This will reduced the manual workload and give information instantly.
- The software will maintain the list of A/C and customer record and balance status.
- The software will be user friendly so that even a beginner can operate the package and thus maintain the status of A/C and balance status easily.

- *The Project Banking system has been made to automate the Banking system being followed by a banking company that deals in current account with or without check facility.*
- *The user/manager can check A/C's with a login & password & canwork out with A/C holders of the bank can withdraw/deposit cash/ to/from their accounts.*

The project makes a sincere effort to provide all the above-mentioned features to meet the requirements of the bank.

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Project Scope

Today the customer demands the services of banks 24 hours where he lives even he is in the airplane.
The scope of this project is limited to the activities of the operations unit of the banking system which includes opening of n no. of Account, Deposit of funds, Electronic funds transfer and balance enquiry.

This Project investigates the entry threshold for providing a new transaction service channel via the real options approach, where the entry threshold is established by using an Internet banking system designed for the use of normal users (individuals).

- Customer must have a valid User Id and password to login to the system
- When an invalid password is entered, a warning is given to the user that he must give a valid username and password to access his account.

- After the valid user logs in the system. He can see the list of accounts he has with the bank.
- On selecting the desired account he is taken to a page which shows the present balance in that particular account number.

- User can request for the details of the last 'n' number of transactions that he has performed.

- User can make a funds transfer to his/her another account in the same bank. If the transaction is successful a notification should appear to the customer, in case it is unsuccessful, a proper message should be given to the customer as to why it failed.

- User can view his transaction history.

- Generate reports at every section.
- Manager can take a backup of the database for every instance that is happening.

- All users are authenticated to avail the services
- Manager can login through his username and password which has been generated by the system and is known to him only.
- Manager has the right to create account for the new customer as well as the existing customer.
- Manager has the right to see all the details of the customers.

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Requirement specification

Problem Definition

Requirement analysis is the process of defining out what the user requires from the system and defining the requirements clearly and in an unambiguous state. The outcome of the requirement analysis is the software developing activities. Thus it deals with understanding the problem goals and constraints. A requirement is a clearly short and concise piece of information, expressed as a fact. It can be written as a sentence or can be expressed using some kind of diagram. Requirements are divided into two major types, they are

➢ **Functional Requirements**
➢ **Non-functional requirements**

Functional Requirements

Functional requirements describe what the system should do. The functional requirements can be further categorized as follows.

- *What inputs the system should accept*
- *What outputs the system should produce*
- *What data the system must store*
- *What are the computations to be done?*
- *The timing and Synchronization of above*

Non Functional Requirements

Non-Functional requirements are the constraints that must be adhered during development. They limit what resources can be used and set bounds on aspects of the software's quality. The following are some of the non-functional requirements.

- *Response Time*
- *Throughput*
- *Recovery from failure*
- *Reusability*
- *Platform*

Hardware and Software Requirements of Server:-

The following requirements apply to the server system environment

HARDWARE SPECIFICATION:

The following requirements will apply to the server side environment:

RAM- A minimum of 32GB RAM

Hard Disk-minimum 10TB.

SOFTWARE SPECIFICATION:

The following requirements will apply to the server side environment:

Web Server -Jboss web server 7.1.1

Back End - MySQL

Front End - Eclipse juno IDE

Hardware and Software Requirements of Client:-

The following requirements apply to the client system environment

SOFTWARE SPECIFICATION:

The following requirements will apply to the Client side environment:

Browser - *Mozilla Firefox,Crome*

HARDWARE SPECIFICATION:

The following requirements will apply to the Client side environment:

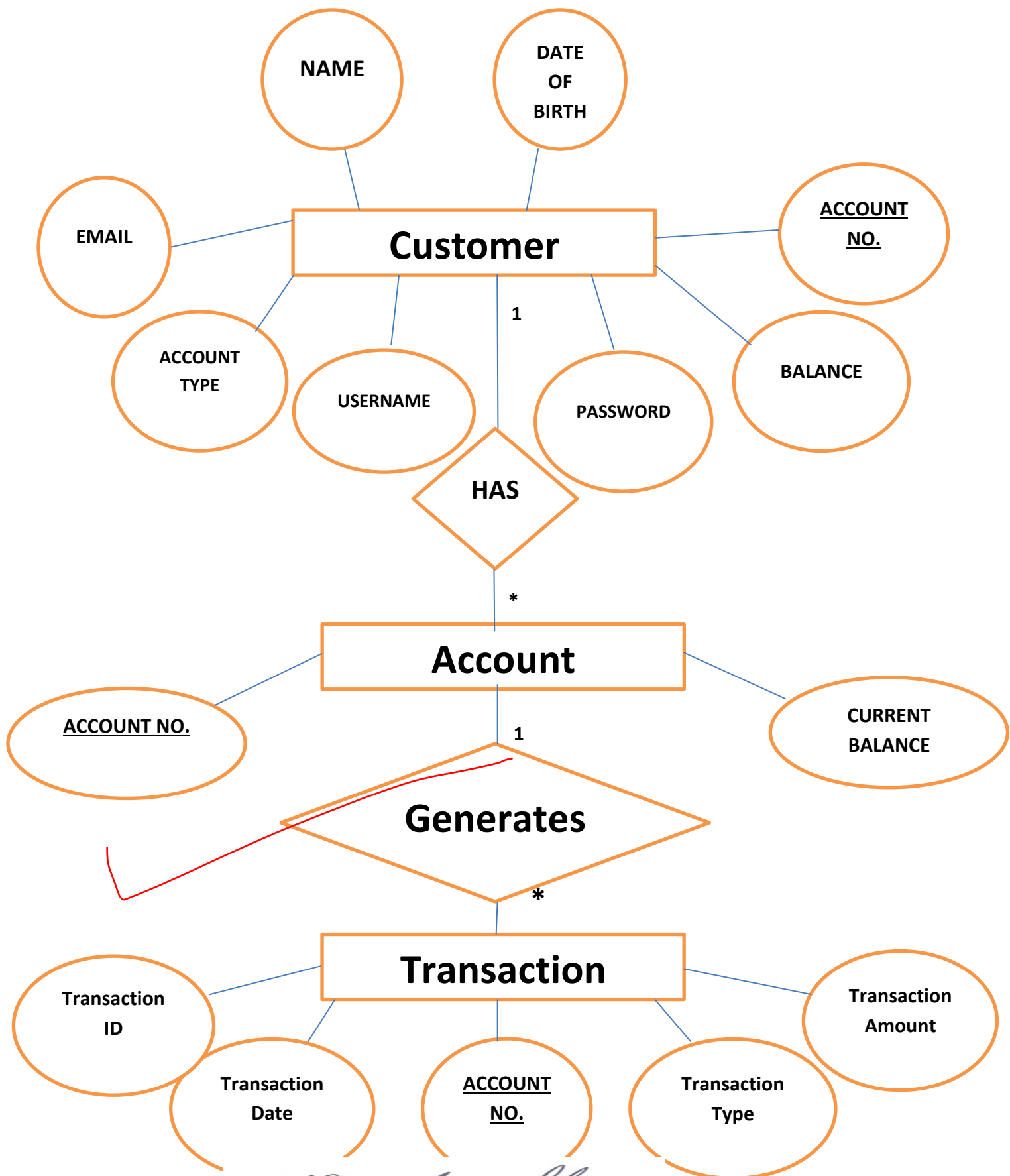**Processor** - Intel Pentium-III
Hard Disk - 80 GB (Min)
RAM - 512 MB   (Min)
Processor speed - 1.2 GHZ (Min)

middle tier specificaton mising

Database Design

NAME

DATE OF BIRTH

EMAIL

ACCOUNT NO.

ACCOUNT TYPE

Customer

1

USERNAME

PASSWORD

BALANCE

HAS

*

Account

ACCOUNT NO.

1

CURRENT BALANCE

Generates

*

Transaction

Transaction ID

Transaction Date

ACCOUNT NO.

Transaction Type

Transaction Amount

Application Work Flow

Customer Log in

User Name :

Password:

Welcome to
Smile the Internet Bank

Customer Log-in

Manager Log-in

Manager Log in

User name: [____]

Password: [____]

Welcome User

- See Transaction History
- Transfer Money
- Log Out

See Transaction History

Current Balance: [____]

Transact id	Tran Date	Trans Type	Amount
01	2.8.2013	Saving	5000

Welcome Manager

- Create account for new Customer
- Create account for existing customer.
- Log Out

Transfer Money

Enter source a/c id: [____]

Enter destination a/c id: [____]

Proceed

Create Account for Existing Customer

Name	DOB	Email	A/C no	A/C Type	User name	pass word	Bal
shreya			6	s	shreya	pass	2000

Username:

Password:

Register

Create Account for new Customer

Name:

Date of Birth:

Email:

Account Type:1.Savings 2.Recurring

Username:

Password:

Opening Balance:

Register

Current bal in source a/c:

[____]

Current bal in destination a/c:

[____]

Enter amount: [____]

Transfer

Screenshots

NEW CUSTOMER REGISTRATION

CREATE ACCOUNT FOR NEW CUSTOMER

Name

Date of Birth

Email

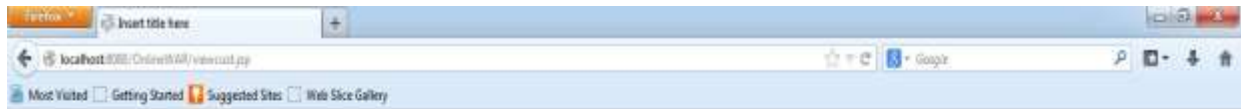Account Type ○ savings ○ recurring

Username

Password

Balance

Pan No.

Register

Go back to previous menu

EXISTING CUSTOMER REGISTRATION

LIST OF ACCOUNTS AND OTHER OPTIONS
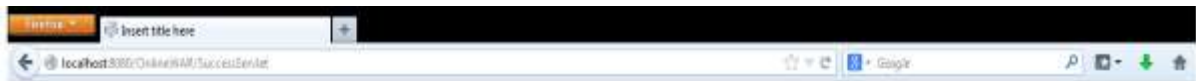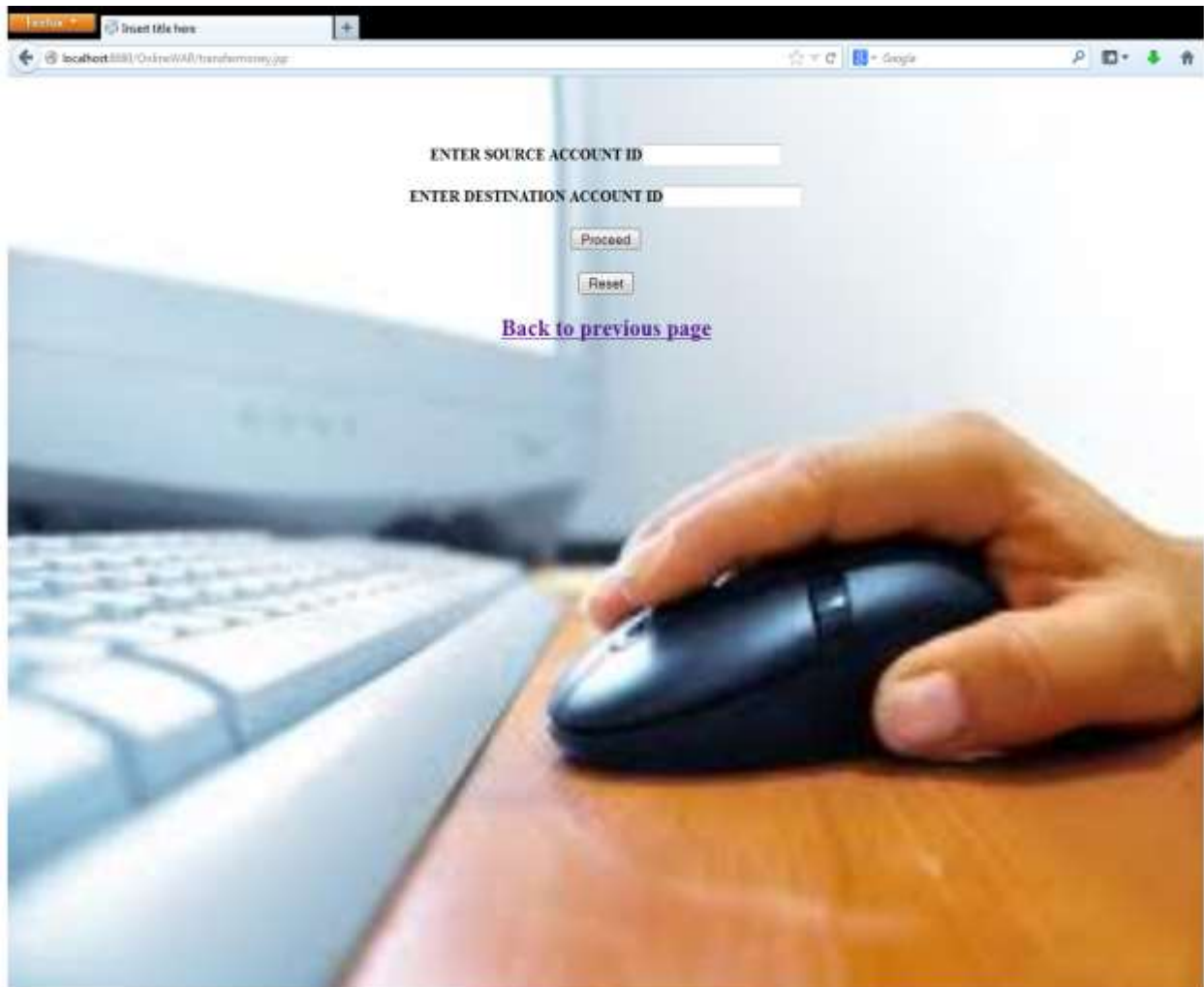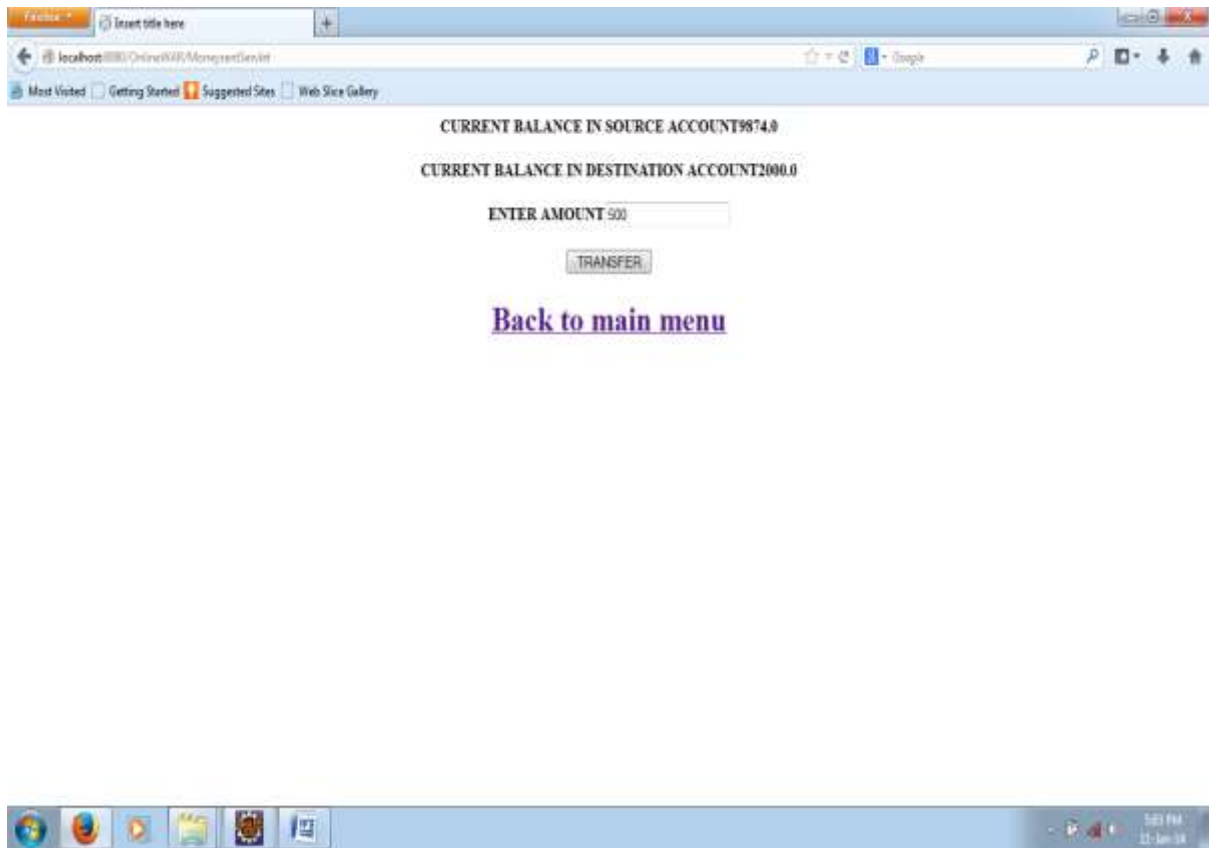
BALANCE TRANSFER

BALANCE TRANSFER (CONTD.)

CURRENT BALANCE IN SOURCE ACCOUNT9874.0

CURRENT BALANCE IN DESTINATION ACCOUNT2000.0

ENTER AMOUNT 500

TRANSFER

Back to main menu

TRANSACTION HISTORY
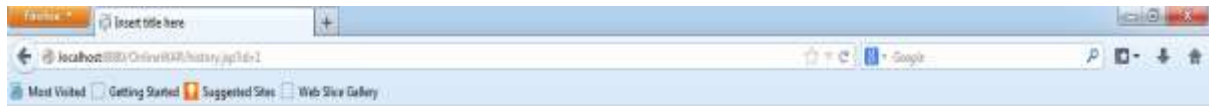
Current Balance 1300.0

Transaction ID	Transaction Date	Transaction Type	Amount
1	1/10/14 3:24 PM	DEBIT	100.0
10	1/10/14 9:36 PM	CREDIT	200.0
14	1/10/14 9:48 PM	CREDIT	1200.0

Back to main menu

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Future scope of improvements

- *We would like to include facility of sending SMS to mobile as one time password during each Online transaction or transfer of Money.*

- *Using javascript,an alert can pop up,if Account has not used for any transaction till six months or account password has not been changed more than six months.*

- *Debit & credit, loan and payment of interest to existing bank account*

- *We would like to include facility for payment of bills,etc or recharge facility.For this,we need to buy a payment gateway like PayPal,BillDesk etc.*

- *More user friendly, can access all features of the bank from a minimum no. of pages*

- *We would like to include facility of transferring money to accounts of other bank also. For this,we would have link with other bank database.*

Code

Customer.java

```java
package online.dao;

public class Customer {

    private String name;
    private String DOB;
    private String email;
    private String actype;
    private String username;
    private String password;
    private double balance;
    private int accno;
    private String pan;




    public Customer(String name) {
        super();
        this.name = name;
    }




/*    public Customer(String name, String dOB, String email, String
actype,
            String username, String password, double balance,
int accno,
            String pan) {
        super();
        this.name = name;
        DOB = dOB;
        this.email = email;
        this.actype = actype;
        this.username = username;
        this.password = password;
        this.balance = balance;
        this.accno = accno;
        this.pan = pan;
    }*/
```

```java
    public Customer(String name, String dOB, String email, String
actype,
                String username, String password, double balance,
int accno,
                String pan) {
        super();
        this.name = name;
        DOB = dOB;
        this.email = email;
        this.actype = actype;
        this.username = username;
        this.password = password;
        this.balance = balance;
        this.accno = accno;
        this.pan = pan;
    }


    public Customer(String name, String dOB, String email, String
actype,
                String username, String password, double
balance,String pan) {
        super();
        this.name = name;
        this.DOB = dOB;
        this.email = email;
        this.actype = actype;
        this.username = username;
        this.password = password;
        this.balance = balance;
        this.pan=pan;

    }


    public Customer() {
        super();
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getDOB() {
        return DOB;
    }

    public void setDOB(String dOB) {
        DOB = dOB;
    }
```

```java
        public String getEmail() {
            return email;
        }

        public void setEmail(String email) {
            this.email = email;
        }

        public String getActype() {
            return actype;
        }

        public void setActype(String actype) {
            this.actype = actype;
        }

        public String getUsername() {
            return username;
        }

        public void setUsername(String username) {
            this.username = username;
        }

        public String getPassword() {
            return password;
        }

        public void setPassword(String password) {
            this.password = password;
        }

        public double getBalance() {
            return balance;
        }

        public void setBalance(double balance) {
            this.balance = balance;
        }

        public int getAccno() {
            return accno;
        }

        public String getPan() {
            return pan;
        }

        public void setPan(String pan) {
            this.pan = pan;
        }

    }
```

CustomerDAO.java

```java
package online.dao;

import java.sql.*;
import java.util.*;


public class CustomerDAO {

    private String driver="com.mysql.jdbc.Driver";

    private String jdbcurl="jdbc:mysql://localhost:3306/banking";

    private String username="root";

    private String password="root";

    private Connection con;

    private PreparedStatement
pstmt,checkpstmt,namepstmt,accpstmt,getpstmt,cgetPstmt,balPstmt,tran
sferPstmt,checkno,getnopstmt,checkuserPstmt,getallpstmt;


    private String getaccsql="SELECT ACCOUNTTYPE FROM OB WHERE
NAME=?";
    private String getnamesql="SELECT NAME FROM OB WHERE
USERNAME=?";
    private String checksql="SELECT USERNAME,PASSWORD FROM OB";
    private String amountsql="SELECT BALANCE FROM OB WHERE
ACCOUNTNO=?";
    private String getsql="SELECT ACCOUNTNO,ACCOUNTTYPE,BALANCE
FROM OB WHERE USERNAME=?";
    private String cgetsql="SELECT
NAME,DOB,EMAIL,ACCOUNTTYPE,USERNAME,PASSWORD,BALANCE,PAN_NO FROM OB
WHERE USERNAME=?";
    //private String getsql="SELECT ACCOUNTNO,ACCOUNTTYPE,BALANCE
FROM OB WHERE USERNAME=?";
    private String createsql="INSERT INTO
OB(NAME,DOB,EMAIL,ACCOUNTTYPE,USERNAME,PASSWORD,BALANCE,PAN_NO)
VALUES (?,?,?,?,?,?,?,?)";
    private String check="SELECT ACCOUNTNO FROM OB WHERE
USERNAME=?";
    private String transfersql="SELECT ACCOUNTNO FROM OB WHERE
USERNAME=?";
```

```java
        private String checkusersql="SELECT USERNAME FROM OB";
        private String getnosql="SELECT ACCOUNTNO FROM OB WHERE
USERNAME=?";
        private String getallsql="SELECT
NAME,DOB,EMAIL,ACCOUNTTYPE,ACCOUNTNO,USERNAME,PASSWORD,BALANCE FROM
OB";

        public CustomerDAO() throws SQLException,ClassNotFoundException

        {
                Class.forName(driver);

         con=DriverManager.getConnection(jdbcurl,username,password);
                System.out.println("Connection established....");
                pstmt=con.prepareStatement(createsql);
                checkpstmt=con.prepareStatement(checksql);
                namepstmt=con.prepareStatement(getnamesql);
                accpstmt=con.prepareStatement(getaccsql);
                getpstmt=con.prepareStatement(getsql);
                cgetPstmt=con.prepareStatement(cgetsql);
                balPstmt=con.prepareStatement(amountsql);
                transferPstmt = con.prepareStatement(transfersql);
                checkuserPstmt = con.prepareStatement(checkusersql);
                getnopstmt=con.prepareStatement(getnosql);
                checkno=con.prepareStatement(check);
                getallpstmt=con.prepareStatement(getallsql);


        }

        public void create(Customer c) throws SQLException

        {
                pstmt.setString(1,c.getName());
                pstmt.setString(2,c.getDOB());
                pstmt.setString(3,c.getEmail());
                pstmt.setString(4,c.getActype());
                pstmt.setString(5,c.getUsername());
                pstmt.setString(6,c.getPassword());
                pstmt.setDouble(7,c.getBalance());
                pstmt.setString(8,c.getPan());

                pstmt.executeUpdate();



        }

        public boolean check(String username,String password)throws
SQLException

        {

          ResultSet rs=checkpstmt.executeQuery();
```

```java
        while(rs.next())
        {

            if(username.equals(rs.getString(1)) &&
password.equals(rs.getString(2)))
                return true;
        }

        return false;

    }


        String name;
            String dob;
            String email;
            String actype;
            String cusername;
            String Password;
            double balance;
            int accno;
            String pan;

    public Customer all(String Username)throws SQLException
    {
            cgetPstmt.setString(1, Username);
            ResultSet rs1=cgetPstmt.executeQuery();
            if(rs1.next())
            {
            name=rs1.getString(1);
            //System.out.println("INSIDE DAO all()\n"+name);
            dob=rs1.getString(2);
            email=rs1.getString(3);
            actype=rs1.getString(4);
            cusername=rs1.getString(5);
            Password=rs1.getString(6);
            balance=rs1.getDouble(7);
            pan=rs1.getString(8);

            }

            Customer c=new
Customer(name,dob,email,actype,cusername,Password,balance,pan);
            //System.out.println("INSIDE DAO\n"+c.getName());
            return c;
    }

    public Customer ck(String username)throws SQLException
    {
            namepstmt.setString(1,username);
            ResultSet rs=namepstmt.executeQuery();
            if(rs.next())
                name=rs.getString(1);
            Customer c=new Customer(name);
            r
```

```java
        }

    public String getname(String username)throws SQLException

    {

      namepstmt.setString(1,username);

      ResultSet rs=namepstmt.executeQuery();

      if(rs.next())

            return rs.getString(1);
      else

            return null;



    }


 public ArrayList getacc(String name)throws SQLException

    {

      accpstmt.setString(1,name);

      ResultSet rs=accpstmt.executeQuery();

      ArrayList<String> al=new ArrayList<String>();

      while(rs.next())

      {
            al.add(rs.getString(1));

      }

            return al;



    }
 public boolean checktransfer(String str,int value1,int
value2)throws SQLException
 {

      transferPstmt.setString(1,str);

       ResultSet rs=transferPstmt.executeQuery();

       int count=0;
```

```java
        System.out.println(str+"InsiDE");


        while(rs.next())
        {

            if(value1==rs.getInt(1))
            {
                count++;
            }
            if(value2==rs.getInt(1))
            {
                count++;
            }



        }
        if(count==2 && value1!=value2)

            return true;

        else

            return false;



    }


    public Collection get(String name)throws SQLException

    {

        getpstmt.setString(1,name);

        ResultSet rs=getpstmt.executeQuery();

        ArrayList<Plain> al=new ArrayList<Plain> ();

        while(rs.next())

        {
            int a=rs.getInt(1);
            String b=rs.getString(2);
            double c=rs.getDouble(3);

            Plain p=new Plain(a,b,c);

            al.add(p);

        }
```

```java
            return al;


    }


public double getbalance(int accno)throws SQLException
{

    balPstmt.setInt(1, accno);
    ResultSet rs=balPstmt.executeQuery();
    rs.next();
    return rs.getDouble(1);
}


public boolean checkname(String username)throws SQLException
{
        ResultSet rs=checkuserPstmt.executeQuery();
        while(rs.next())
        {
            if(username.equals(rs.getString(1)));
            return true;
        }
        return false;
    }

public int getno(String username)throws SQLException

{

    getnopstmt.setString(1,username);

    ResultSet rs=getnopstmt.executeQuery();

    int accno=0;
    while(rs.next())
    {

      accno=rs.getInt(1);



    }


    return accno;

}

public boolean checkid(String username,int id)throws SQLException

{
    checkno.setString(1,username);
```

```java
        ResultSet rs=checkno.executeQuery();

        int i=0;

        while(rs.next())

        {

            if(rs.getInt(1)==id)

                return true;
        }

        return false;
}

public ArrayList getall()throws SQLException
{

      ResultSet rs=getallpstmt.executeQuery();

      ArrayList al=new ArrayList();

      while(rs.next())

      {
            String name=rs.getString(1);
            //System.out.println("INSIDE DAO all()\n"+name);
            String dob=rs.getString(2);
            String email=rs.getString(3);
            String actype=rs.getString(4);
            int accno=rs.getInt(5);
            String cusername=rs.getString(6);
            String Password=rs.getString(7);
            double balance=rs.getDouble(8);

            Customer c=new
Customer(name,dob,email,actype,cusername,password,balance,accno,pan)
;

            al.add(c);

      }

      return al;


      }



      }
```

Transaction.java

```java
package online.dao;

public class Transaction {

    private int accno;

    private int tid;

    private String tdate;

    private String ttype;

    private double amount;

    public Transaction(String tdate, String ttype, double amount,int accno) {
            super();
            this.tdate = tdate;
            this.ttype = ttype;
            this.amount = amount;
            this.accno=accno;
    }

    public Transaction() {
            super();
    }

    public int getAccno() {
            return accno;
    }

    public void setAccno(int accno) {
            this.accno = accno;
    }

    public int getTid() {
            return tid;
    }

    public void setTid(int tid) {
            this.tid = tid;
    }
```

```java
    public String getTdate() {
        return tdate;
    }

    public void setTdate(String tdate) {
        this.tdate = tdate;
    }

    public String getTtype() {
        return ttype;
    }

    public void setTtype(String ttype) {
        this.ttype = ttype;
    }

    public double getAmount() {
        return amount;
    }

    public void setAmount(double amount) {
        this.amount = amount;
    }

}
```

TransactionDAO.java

```java
package online.dao;

import java.sql.*;
import java.util.ArrayList;

public class TransactionDAO {

    private String driver="com.mysql.jdbc.Driver";

        private String jdbcurl="jdbc:mysql://localhost/transaction";
```

```java
        private String username="root";

        private String password="root";

        private Connection con;

        private PreparedStatement pstmt,getpstmt;

        private String createsql="INSERT INTO
HISTORY(ACCOUNTNO,T_DATE,T_TYPE,AMOUNT) VALUES (?,?,?,?)";


        private String getsql="SELECT T_ID,T_DATE,T_TYPE,AMOUNT
FROM HISTORY WHERE ACCOUNTNO=?";

        public TransactionDAO()throws
ClassNotFoundException,SQLException

        {

            Class.forName(driver);

    con=DriverManager.getConnection(jdbcurl,username,password);
            System.out.println("Connection established....");
            pstmt=con.prepareStatement(createsql);
            getpstmt=con.prepareStatement(getsql);

        }

         public void create(Transaction c) throws SQLException

         {
                //pstmt.setInt(1,c.getAccno());

             pstmt.setInt(1,c.getAccno());
                pstmt.setString(2,c.getTdate());

                pstmt.setString(3,c.getTtype());

                pstmt.setDouble(4,c.getAmount());



                /*pstmt.setString(4,c.getActype());
                //pstmt.setString(13,c.getAcno());
                pstmt.setString(5,c.getUsername());
                pstmt.setString(6,c.getPassword());
                pstmt.setDouble(7, c.getBalance());
                */

                pstmt.executeUpdate();
```

```java
            }

        public ArrayList get(int accno)throws SQLException
        {
                getpstmt.setInt(1,accno);

                ResultSet rs=getpstmt.executeQuery();

                ArrayList al=new ArrayList();

                while(rs.next())

                {
                        int a=rs.getInt(1);
                        String b=rs.getString(2);
                        String c=rs.getString(3);
                        double d=rs.getDouble(4);

                        Temp t1=new Temp(a,b,c,d);

                        al.add(t1);
                }
                return al;



}
}
```

Account.java

```java
package online.dao;

public class Account {

    private int accno;

    private double balance;

    public Account(int accno, double balance) {
        super();
        this.accno = accno;
        this.balance = balance;
```

```java
		}

		public int getAccno() {
			return accno;
		}

		public void setAccno(int accno) {
			this.accno = accno;
		}

		public double getBalance() {
			return balance;
		}

		public void setBalance(double balance) {
			this.balance = balance;
		}

		public Account() {
			super();
		}


}
```

AccountDAO.java

```java
package online.dao;

import java.sql.*;
import java.util.ArrayList;

public class AccountDAO {

	private String driver="com.mysql.jdbc.Driver";

	private String jdbcurl="jdbc:mysql://localhost:3306/account";

	private String username="root";

	private String password="root";

	private Connection con;
```

```java
        private PreparedStatement pstmt,createpstmt;

        private String getinfosql="SELECT CURRENTBALANCE FROM DETAILS
WHERE ACCOUNTNO=?";

        private String createsql="INSERT INTO
DETAILS(ACCOUNTNO,CURRENTBALANCE) VALUES (?,?)";




public AccountDAO()throws ClassNotFoundException,SQLException

{

     Class.forName(driver);
     con=DriverManager.getConnection(jdbcurl,username,password);

     //System.out.println("jhdsfjds");
     pstmt=con.prepareStatement(getinfosql);
     createpstmt=con.prepareStatement(createsql);



}

public void create(Account obj)throws SQLException

{

     createpstmt.setInt(1,obj.getAccno());
     createpstmt.setDouble(2,obj.getBalance());

     createpstmt.executeUpdate();



}

public double getinfo(int accno)throws SQLException
{
     pstmt.setInt(1, accno);

     ResultSet rs=pstmt.executeQuery();

     double balance=0;
     while(rs.next())

     {

     balance=rs.getDouble(1);


     }

     return balance;

}
```

```
}
```

Currenttime.java

```java
package online.dao;

import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Calendar;

public class Currenttime {

    public static String gettime()
    {


    DateFormat dateFormat = new SimpleDateFormat("dd/MM/yyyy
HH:mm:ss");
    Calendar cal = Calendar.getInstance();
    String s=dateFormat.format(cal.getTime());
    return s;
}
}


Gettime.java


package online.dao;

import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;

public class Gettime {

    public static String get_date() {

    DateFormat df=new SimpleDateFormat();

    Date date=new Date();

    return(df.format(date));

    }


}
```

Plain.java

```java
package online.dao;

public class Plain {

    private int a;

    private String b;

    private double c;

    public Plain(int a, String b,double c) {
        super();
        this.a = a;
        this.b = b;
        this.c= c;
    }

    public Plain() {
        super();
    }

    public int getA() {
        return a;
    }

    public void setA(int a) {
        this.a = a;
    }

    public String getB() {
        return b;
    }

    public void setB(String b) {
        this.b = b;
    }

    public double getC() {
        return c;
    }

    public void setC(double c) {
        this.c= c;
    };
```

```
}
```

Store.java

```java
package online.dao;

public class Store {

    public static int source;
    public static int destination;

    public static void set(int a,int b)

    {

        source=a;

        destination=b;

    }

    public static int getsource()

    {

        return source;
    }

    public static int getdest()

    {

        return destination;
    }


}
```

Temp.java

```java
package online.dao;

public class Temp {

    private int id;

    private String date;

    private String type;

    private double amount;

    public Temp(int id, String date, String type, double amount) {
        super();
        this.id = id;
        this.date = date;
        this.type = type;
        this.amount = amount;
    }

    public Temp() {
        super();
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getDate() {
        return date;
    }

    public void setDate(String date) {
        this.date = date;
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }

    public double getAmount() {
```

```java
            return amount;
        }

        public void setAmount(double amount) {
            this.amount = amount;
        }


}
```

AddCustServlet.java

```java
package org.OnlineServlet;

import online.dao.*;

import java.io.*;
import java.sql.SQLException;

import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;




/**
 * Servlet implementation class AddcustServlet
 */
@WebServlet("/AddCustServlet")
public class AddCustServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AddCustServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

     /**
      * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
      */
     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
          // TODO Auto-generated method stub
```

```java
        }

        /**
         * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
         */
        protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
                // TODO Auto-generated method stub

                String name=request.getParameter("NAME");
                String DOB=request.getParameter("DOB");
                String email=request.getParameter("EMAIL");
                String acctype=request.getParameter("ACCOUNTTYPE");
                //String accno=request.getParameter("accountno");
                String username=request.getParameter("USERNAME");
                String password=request.getParameter("PASSWORD");
                double
balance=Double.parseDouble(request.getParameter("BALANCE"));
                String pan=request.getParameter("PAN_NO");


                Customer c=new
Customer(name,DOB,email,acctype,username,password,balance,pan);

                 response.setContentType("text/html");

                  PrintWriter out=response.getWriter();


                 try {
                        CustomerDAO obj=new CustomerDAO();

                        obj.create(c);

                        int accno=obj.getno(username);
                        Account a=new Account(accno,balance);
                        AccountDAO ac=new AccountDAO();
                        ac.create(a);



                        out.println("Database Updated\nCustomer added
successfully....<br>");

                        out.println("<a href='man2.jsp'>ADD MORE
CUSTOMERS</a>");
                        out.println("<a href='firstpage.jsp'>Log
out</a>");

                 }

                 catch(ClassNotFoundException e)
                 {
                        e.printStackTrace();
```

```
                    out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
                }

                catch(SQLException e)
                {
                    e.printStackTrace();
                    out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                }

                out.close();


        }


}
```

Check.java

```java
package org.OnlineServlet;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.SQLException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import online.dao.CustomerDAO;

/**
 * Servlet implementation class Check
 */
@WebServlet("/Check")
public class Check extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public Check() {
        super();
```

```java
            // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
            // TODO Auto-generated method stub
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
            // TODO Auto-generated method stub


            String username=request.getParameter("username");

            String password=request.getParameter("password");

             response.setContentType("text/html");

              PrintWriter out=response.getWriter();

              try {
                    CustomerDAO obj=new CustomerDAO();

                    boolean ob=obj.check(username,password);

                    if(ob==true)
                    {

                            HttpSession s=request.getSession(true);

                            s.setAttribute("SEND", username);
                            try {
                                    CustomerDAO obj1=new CustomerDAO();

                                    String user=obj1.getname(username);


//                            out.println("<MARQUEE><H2>WELCOME
CUSTOMER</H2></MARQUEE>");

                            RequestDispatcher
rd=request.getRequestDispatcher("details.jsp");
                            request.setAttribute("SUCCESS",user);
                            rd.forward(request,response);

                            }
```

```java
                        catch(ClassNotFoundException e)
                        {
                             e.printStackTrace();

                             // out.println("<b> Class Loading
Error!! "+e.getMessage()+"</b>");
                        }

                        catch(SQLException e)
                        {
                             e.printStackTrace();
                             //out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                        }

                }
                else
                {
                        out.println("<font color=red>INVALID
USERNAME OR PASSWORD</font><br>");
                             out.println("<a href='manlog.jsp'>TRY
AGAIN</a>");

                }

            }
                catch(ClassNotFoundException e)
                {
                        e.printStackTrace();

                        out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
                }

                catch(SQLException e)
                {
                        e.printStackTrace();
                        out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                }

                out.close();


      }

}
```

ExistCustServlet.java

```java
package org.OnlineServlet;


import online.dao.*;

import java.sql.*;
import java.io.*;

import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;


/**
 * Servlet implementation class ExistCustServlet
 */
@WebServlet("/ExistCustServlet")
public class ExistCustServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;

   /**
    * @see HttpServlet#HttpServlet()
    */
   public ExistCustServlet() {
       super();
       // TODO Auto-generated constructor stub
   }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
          // TODO Auto-generated method stub
     }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
          // TODO Auto-generated method stub
          //String actype=request.getParameter("ACCOUNTTYPE");
          String username=request.getParameter("USERNAME");
          String password=request.getParameter("PASSWORD");
          //double
balance=Double.parseDouble(request.getParameter("BALANCE"));
```

```java
response.setContentType("text/html");

 PrintWriter out=response.getWriter();

 try {
        CustomerDAO obj=new CustomerDAO();

        boolean ob=obj.check(username,password);

        if(ob==true)
        {

            // HttpSession s=request.getSession(true);

            //s.setAttribute("SEND", username);
            try {
                CustomerDAO obj1=new CustomerDAO();

                String user=obj1.getname(username);


            Customer c=obj1.all(username);

            //System.out.println("*inside
exitcustservlet*\n"+c.getName());

            HttpSession s=request.getSession(true);
            s.setAttribute("SUCCESS",c);


//                  out.println("<MARQUEE><H2>WELCOME
CUSTOMER</H2></MARQUEE>");

                    RequestDispatcher
rd=request.getRequestDispatcher("copyaccdt.jsp");
                    request.setAttribute("SUCCESS",c);
                    rd.forward(request,response);

                    }


                catch(ClassNotFoundException e)
                {
                    e.printStackTrace();

                    // out.println("<b> Class Loading
Error!! "+e.getMessage()+"</b>");
                }

                catch(SQLException e)
                {
                    e.printStackTrace();
```

```java
                              //out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                         }

                    }
                    else
                    {
                         out.println("<font color=red>INVALID
USERNAME OR PASSWORD</font><br>");
                              out.println("<a href='man2.jsp'>TRY
AGAIN</a>");

                    }

              }
                    catch(ClassNotFoundException e)
                    {
                         e.printStackTrace();

                         out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
                    }

                    catch(SQLException e)
                    {
                         e.printStackTrace();
                         out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                    }

                    out.close();



         }

}
```

ManServlet.java

```java
package org.OnlineServlet;

import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
```

```java
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class ManServlet
 */
@WebServlet("/ManServlet")
public class ManServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public ManServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
     HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        String username=request.getParameter("user");
        String password=request.getParameter("pass");

        response.setContentType("text/html");
        PrintWriter out=response.getWriter();


        if(username.equals("user") && password.equals("pass"))
        {

            RequestDispatcher
rd1=request.getRequestDispatcher("man2.jsp");

            request.setAttribute("SUCCESS", null);

            rd1.forward(request,response);

        }
        else
        {
            out.println("<font color=red>INVALID USERNAME OR
PASSWORD</font><br>");
            out.println("<a href='man.jsp'>TRY AGAIN</a>");
```

```
            }

        }

}
```

MoneySentServlet.java

```java
package org.OnlineServlet;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.SQLException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

import online.dao.CustomerDAO;

/**
 * Servlet implementation class MoneysentServlet
 */
@WebServlet("/MoneysentServlet")
public class MoneysentServlet extends HttpServlet {
      private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public MoneysentServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

     /**
      * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
      */
```

```java
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub

        response.setContentType("text/html");

        HttpSession s=request.getSession(false);

        String str=(String)s.getAttribute("SEND");

        System.out.println(str+"HELLO");


        int a=Integer.parseInt(request.getParameter("source"));

        int
c=Integer.parseInt(request.getParameter("destination"));

        PrintWriter out=response.getWriter();

         try {
             CustomerDAO obj=new CustomerDAO();

             boolean b=obj.checktransfer(str,a,c);
            System.out.println("Hello "+str+a+b+c);

          if(b==true)
          {
              //s.invalidate();

              RequestDispatcher
rd1=request.getRequestDispatcher("amount.jsp");
                    out.println("<a
href='useacc.jsp'><h2>Back to prevoius page</h2></a>");
                    request.setAttribute("SUCCESS",null);

                    rd1.forward(request,response);

          }

          else
          {
              out.println("<b>INVALID ENTRY</b><br>");
            out.println("<a href='transfermoney.jsp'>TRY
AGAIN</a>");
          }
```

```java
                }

                catch(ClassNotFoundException e)
                {
                        e.printStackTrace();

                        out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
                }

                catch(SQLException e)
                {
                        e.printStackTrace();
                        out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                }

                out.close();


        }
```

SentServlet.java

```java
package org.OnlineServlet;

import online.dao.*;


import java.io.*;
import java.sql.SQLException;
import java.util.ArrayList;
import java.util.Iterator;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;

/**
 * Servlet implementation class SentServlet
 */
@WebServlet("/SentServlet")
public class SentServlet extends HttpServlet {
        private static final long serialVersionUID = 1L;
```

```java
    /**
     * @see HttpServlet#HttpServlet()
     */
    public SentServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
            // TODO Auto-generated method stub

    response.setContentType("text/html");

    PrintWriter out=response.getWriter();

    HttpSession s=request.getSession(false);

    String username=(String)s.getAttribute("SEND");

    int source_id=Store.getsource();

    int destination_id=Store.getdest();



    double
amount=Double.parseDouble(request.getParameter("amount"));


     Transaction t_source=new
Transaction(Gettime.get_date(),"DEBIT",amount,source_id);

      Transaction t_destination=new
Transaction(Gettime.get_date(),"CREDIT",amount,destination_id);


     try {


         // CustomerDAO obj=new CustomerDAO();

          TransactionDAO ob=new TransactionDAO();

          ob.create(t_source);

          ob.create(t_destination);

          AccountDAO ac=new AccountDAO();
```

```java
            double temp_source_balance=ac.getinfo(source_id);

            double final_source_balance=temp_source_balance-amount;

          System.out.println(final_source_balance);

            double temp_dest_balance=ac.getinfo(destination_id);

            double final_dest_balance=temp_dest_balance+amount;

            Account o1=new Account(source_id,final_source_balance);

            Account o2=new
Account(destination_id,final_dest_balance);

            ac.create(o1);

            ac.create(o2);



            out.println("TRANSACTION SUCCESSFULL....");

        }
         catch(ClassNotFoundException e)
         {
            e.printStackTrace();

            out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
         }

        catch(SQLException e)
        {
            e.printStackTrace();
            out.println("<b> SQL Error!! "+e.getSQLState()+"</b>");
        }

      out.println("<a href='useacc.jsp'><center><h1>Back to main
menu</h1></a>");

        out.close();



    }




    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
```

```
            protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
                // TODO Auto-generated method stub
            }

}
```

SuccessServlet.java

```
package org.OnlineServlet;

import online.dao.*;
import java.io.*;
import java.sql.SQLException;

import online.dao.*;

import javax.servlet.*;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.*;


/**
 * Servlet implementation class SuccessServlet
 */
@WebServlet("/SuccessServlet")
public class SuccessServlet extends HttpServlet {
     private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public SuccessServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

     /**
      * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
      */
     protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
```

```java
        // TODO Auto-generated method stub
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub


        String username=request.getParameter("username");
        String password=request.getParameter("password");

         response.setContentType("text/html");

          PrintWriter out=response.getWriter();

          try {
              CustomerDAO obj=new CustomerDAO();

              boolean ob=obj.check(username,password);

              if(ob==true)
              {

                      HttpSession s=request.getSession(true);
                      s.setAttribute("SEND", username);

                      try {
                          CustomerDAO obj1=new CustomerDAO();

                          String user=obj1.getname(username);
                          s.setAttribute("NAME", user);
                          //Customer c=obj1.ck(username);


                      //out.println("<MARQUEE><H2>WELCOME
CUSTOMER</H2></MARQUEE>");

                      RequestDispatcher
rd=request.getRequestDispatcher("useacc.jsp");
                      request.setAttribute("SUCCESS",user);
                      rd.forward(request,response);


                      }


                      catch(ClassNotFoundException e)
                      {
                          e.printStackTrace();

                          // out.println("<b> Class Loading
Error!! "+e.
```

```java
                }

                catch(SQLException e)
                {
                    e.printStackTrace();
                    //out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
                }

            }
            else
            {
                out.println("<font color=red>INVALID
USERNAME OR PASSWORD</font><br>");
                    out.println("<a href='view.jsp'>TRY
AGAIN</a>");

            }

        }
            catch(ClassNotFoundException e)
            {
                e.printStackTrace();

                out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
            }

            catch(SQLException e)
            {
                e.printStackTrace();
                out.println("<b> SQL Error!!
"+e.getSQLState()+"</b>");
            }

            out.close();



    }

}
```
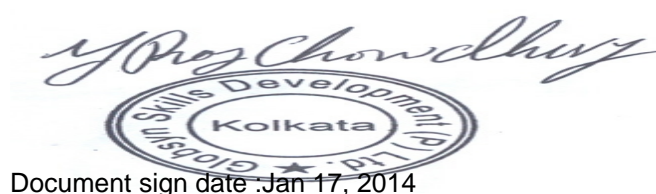
TransactionServlet.java

```java
package org.OnlineServlet;

import java.io.*;
import java.sql.SQLException;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import online.dao.CustomerDAO;

/**
 * Servlet implementation class TransactionServlet
 */
@WebServlet("/TransactionServlet")
public class TransactionServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public TransactionServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub

    response.setContentType("text/html");

    String str=request.getParameter("username");

    System.out.println(str);

    PrintWriter out=response.getWriter();

     try {
            CustomerDAO obj=new CustomerDAO();

            boolean b=obj.checkname(str);

          if(b==true)
          {


                  RequestDispatcher
rd1=request.    ↑R        ↑Di    ↑h  ("        f        ↑p");
```

```java
                request.setAttribute("SUCCESS",str);

                rd1.forward(request,response);

        }

        else
        {
            out.println("<b>INVALID USERNAME</b><br>");
        out.println("<a href='transfer.jsp'>TRY AGAIN</a>");
        }

    }

    catch(ClassNotFoundException e)
    {
        e.printStackTrace();

        out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
    }

    catch(SQLException e)
    {
        e.printStackTrace();
        out.println("<b> SQL Error!! "+e.getSQLState()+"</b>");
    }

    out.close();


}




    /**
     * @see HttpServlet#doPost(HttpServletRequest request,
HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request,
HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
    }

}
```

accdt.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"
http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>

<img src='accdt.jpg'
style='position:fixed;top:0px;left:0px;width:100%;height:100%;z-
index:-1;'>
<h1  style="font-family:verdana;text-align:center;">CREATE ACCOUNT
FOR NEW CUSTOMER</h1><br><br>
<body style="background-color:Aquamarine;">
<center><form ACTION="AddCustServlet"method="post">

  Name <input type="text" name="NAME"><br><br>
  Date of Birth <input type="text"
name="DOB"><br><br>
Email  <input type="text" name="EMAIL"><br><br>
Account Type <input type="radio" name="ACCOUNTTYPE"
value="Savings" />savings
                <input type="radio" name="ACCOUNTTYPE"
value="Recurring" />recurring<br><br>

Username <input type="text" name="USERNAME"><br><br>
Password <input type="PASSWORD" name="PASSWORD"><br><br>
Balance <input type="text" name="BALANCE"><br><br>
Pan No. <input type="text" name="PAN_NO"><br><br>
<input type="submit" value="Register"/><br>
</form>

</center>
<a href="man2.jsp"><h1><center>Go back to previous
menu</center></h1></a>
</body>
</html>
```

amount.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="java.sql.*,online.dao.*,java.util.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>
<form action="SentServlet">

<%

int a=Integer.parseInt(request.getParameter("source"));

int c=Integer.parseInt(request.getParameter("destination"));

Store.set(a, c);

 try {
        CustomerDAO obj=new CustomerDAO();


       double balancesource=obj.getbalance(a);

            double balancedestination=obj.getbalance(c) ;



%>

<center><b>CURRENT BALANCE IN SOURCE
ACCOUNT<%=balancesource%></b></center><br>
<center><b>CURRENT BALANCE IN DESTINATION
ACCOUNT<%=balancedestination%></b></center><br>
<center><b>ENTER AMOUNT<input type="text"
name="amount"></b></center><br>
<center><input type="submit" value="TRANSFER"></input></center>
<a href='useacc.jsp'><center><h1>Back to main menu</h1></a>
</form>
</body>
</html>

<%
 }

catch(ClassNotFoundException e)
{
        e.printStackTrace();

        out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
}
```

```
catch(SQLException e)
{
        e.printStackTrace();
        out.println("<b> SQL Error!! "+e.getSQLState()+"</b>");
}




%>
```

copyaccdt.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="online.dao.*"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>

<h1  style="background-color:DeepPink;font-family:verdana;text-
align:center;">CREATE ACCOUNT FOR EXISTING CUSTOMER</h1>
<body style="background-color:Aquamarine;">
<center><form ACTION="AddCustServlet"method="post">


<%
HttpSession s=request.getSession(false);
Customer c=(Customer)s.getAttribute("SUCCESS");
String a=c.getName();
a.replace(' ', '1');
%>

Name<input type="text" name="NAME" value=<%=a %>><br>
Date of Birth<input type="text" name="DOB" value=<%=c.getDOB()
%>><br>
Email<input type="text" name="EMAIL" value=<%=c.getEmail() %>><br>
Account Type<input type="radio" name="ACCOUNTTYPE" value="Savings"
/>savings
```

```
                <input type="radio" name="ACCOUNTTYPE"
value="Recurring" />recurring<br>

Username<input type="text" name="USERNAME" value=<%=c.getUsername()
%> ><br>
Password<input type="PASSWORD" name="PASSWORD"
value=<%=c.getPassword() %>><br>
Balance<input type="text" name="BALANCE"><br>
Pan No.<input type="text" name="PAN_NO" value=<%=c.getPan() %>><br>


<input type="submit" value="Register"/>
</form>

</center>
<a href="man2.jsp"><h1><center>Go back to previous
menu</center></h1></a>

</body>
</html>
```

cuslog.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1 http-equiv="refresh" content="1"">
<title>customer login</title>
</head>
<body>
<a href="view.jsp"><h1><center>click here to log
in</center></h1></a>


</body>
</html>
```

details.java

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>

<body>


</body>
</html>
```

exist.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>

<center><h2>CREATE ACCOUNT FOR EXISTING CUSTOMER</h2></center>


<center><form ACTION="ExistCustServlet"method="post">


Username<input type="text" name="USERNAME"><br>
Password<input type="PASSWORD" name="PASSWORD"><br>

<input type="submit" value="Register"/>
</form>

</center>
```

```
<a href="man2.jsp"><h1><center>Go back to previous
menu</center></h1></a>
</body>
</html>
```

firstpage.jsp

```
<%@page import="java.util.Date "%>
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@page import="online.dao.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head><br><br><br><br><br><h1><center><b><U>WELCOME TO ABC
BANK</U></b></center></h1>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
 <meta http-equiv="refresh" content="1">
<title>welcome page</title>
</head>
<body>
<img src='firstpage.jpg'
style='position:fixed;top:0px;left:0px;width:100%;height:100%;z-
index:-1;font-style: italic; '>
<br><center><%=Currenttime.gettime() %></center><br>
<br><br><br>
<a href='view.jsp'><center><H1>CUSTOMER LOGIN</H1></center></a>
<a href='manlog.jsp'><center><h1>MANAGER LOGIN</h1></a>
</body>
</html>
```

history.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
```

```
    <%@ page
import="java.util.*,online.dao.*,java.sql.*,javax.servlet.http.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>
<body>
<br><br><br><center>
<table border="1">
<tr><th><u><b>Transaction ID</b></u></th><th><u><b>Transaction
Date</b></u></th><th><u><b>Transaction
Type</b></u></th><th><u><b>Amount</b></u></th></tr>
<%!public double balance; %>
<%
 HttpSession s=request.getSession(false);

String user=(String)s.getAttribute("SEND");

int id=Integer.parseInt(request.getParameter("id"));

try {

    CustomerDAO cd=new CustomerDAO();

    boolean rslt=cd.checkid(user,id);

    if(rslt==true)
    {

    AccountDAO ob=new AccountDAO();

    double balance=ob.getinfo(id);

    TransactionDAO obj=new TransactionDAO();

    Collection<Temp> c=obj.get(id);


    if(c!=null)
    {

    for(Temp t:c)

    {

%>

<tr><td><%=t.getId()%></td><td><%=t.getDate()%></td><td><%=t.getType
()%></td><td><%=t.getAmount()%></td></tr>

<%
```

```jsp
        }

        %>
        <h2><b>Current Balance<input type="text"
value=<%=balance%>></b></h2>
<%

}
        }

        else
        {

            RequestDispatcher
rd1=request.getRequestDispatcher("tryagain.jsp");

            request.setAttribute("FAILURE",null);

            rd1.forward(request,response);


        }

}



catch(ClassNotFoundException e)
{
        e.printStackTrace();

        out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
}

catch(SQLException e)
{
        e.printStackTrace();
        out.println("<b> SQL Error!! "+e.getSQLState()+"</b>");
}


%>

</table>
<br><br><br>
<a href='useacc.jsp'><center><h1>Back to main menu</h1></a>
<center>
</body>
</html>
```

man2.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>
<img src='man2.jpg'
style='position:fixed;top:0px;left:0px;width:100%;height:100%;z-
index:-1;'>
<center><h1><b>WELCOME MANAGER</b></h1></center>
<ul>
<li><a href="accdt.jsp"><h2>Click here to create an account for a
new customer</h2></a></li><br>
<li><a href="viewcust.jsp"><h2>Click here to create an account for
an existing customer</h2></a></li><br>
<li><a href="firstpage.jsp"><h2>Log out</h2></a></li>
</ul>
</body>
</html>
```

manlog.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>manager login</title>
</head>
<body>
```

```
<img src='manlog.jpg'
style='position:fixed;top:0px;left:0px;width:100%;height:100%;z-
index:-1;'>
<center><form action="ManServlet" method="post">
<b></b><h2>USERNAME</h2></b> <input type="text"
name="user"><br><br>
<b></b><h2>PASSWORD</h2></b> <input type="password"
name="pass"><br><br>
<input type="submit" value="LOGIN"><br><br>
</form></center>
<a href='firstpage.jsp'><center><H2>GO TO PREVIOUS
MENU</H2></center></a>
</body>
</body>
```

newacc.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>
<form action="AddcustServlet" method="post">
Name<input type="text" name="name"><br>
D.O.B<input type="text" name="dob"><br>
Sex<input type="radio" name="sex">Male
    <input type="radio" name="sex">Female<br>
Nationality<input type="text" name="nationality"><br>
Address<input type="text" name="address"><br>
City<input type="text" name="city"><br>
State<input type="text" name="state"><br>
PinCode<input type="text" name="pincode"><br>
Contact<input type="text" name="contact"><br>
Email<input type="text" name="email"><br>
Profession<input type="text" name="profession"><br>
Monthly Income<input type="text" name="income"><br>
Account type<input type="text" name="accounttype"><br>
Username<input type="text" name="username"><br>
Password<input type="text" name="password"><br>
Balance<input type="text" name="balance"><br>
<input type="submit" value="Add customer"> <input type="reset"
value="reset">


</form>


</body>
```

```
</html>
```

out.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>

<%HttpSession s=request.getSession();
s.invalidate();
%>
<center><b><h1>THANK YOU FOR BANKING WITH US</h1></b></center>


</body>
</html>
```

sendmoney.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>
<body>
<%
String str=(String)request.getAttribute("SUCCESS");
RequestDispatcher
rd1=request.getRequestDispatcher("MoneysentServlet");

request.setAttribute("SUCCESS",str);
```

```
rd1.forward(request,response);


%>
<b>YOU ARE BEING REDIRECTED.....</b><br>
<a href="MoneysentServlet">CLICK HERE </a>

</body>
</html>
```

transaction.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>
<body>
<br><br><br><br>
<center>
<form action="history.jsp">
ENTER ACCOUNT NO<input type="text" name="id">
<br><br>
<input type="submit" VALUE="Proceed">
<input type="reset" VALUE="Reset">
<a href="useacc.jsp"><h2><center>Back to previous
page</center></h2></a>

</form>
</center>

</body>
</html>
```

transfer.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page import="java.util.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="TransactionServlet">

ENTER YOUR USERNAME<input type="text" name="username">

<input type="submit" value="Proceed">

</form>
</body>
</html>
```

transfermoney.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>Insert title here</title>
</head>
<body>
<%
HttpSession s=request.getSession(false);
//System.out.println(getno);
%>
<img src='transaction.jpeg'
style='position:fixed;top:0px;left:0px;width:100%;height:100%;z-
index:-1;'>
<br><br><br>

<form action="MoneysentServlet" method="post">
```

```
<center><b>ENTER SOURCE ACCOUNT ID<input type="text"
name="source"></b></center><br>
<center><b>ENTER DESTINATION ACCOUNT ID<input type="text"
name="destination"></b></center><br>
<center><b><input type="submit" value="Proceed"></b></center><br>
<center><b><input type="reset" value="Reset"></b></center>

</form>
<a href="useacc.jsp"><h2><center>Back to prevoius
page</center></h2></a>

</body>
</html>
```

tryagain.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>
<body>
<h2>INVALID ENTRY</h2>
<a href="transaction.jsp">TRY AGAIN</a>

</body>
</html>
```

useacc.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
    <%@ page
import="javax.servlet.http.*,online.dao.*,java.util.*,java.sql.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1">
<title>Insert title here</title>
</head>
<body>
```

```jsp
<%
String str=(String)request.getAttribute("SUCCESS");
HttpSession s1=request.getSession(false);
String getuser=(String)s1.getAttribute("NAME");

%>
<center><h2>WELCOME</h2><h3><%=getuser %></h3></center>
<br><br><br>
<center><table border='1'>
<tr><th><u><b>Account Type</b></u></th><th><u><b>Account
No</b></u></th><th><u><b>Opening Balance</b></u></th></tr>


<%HttpSession s=request.getSession(false);

String Str=(String)s.getAttribute("SEND");

try {
     CustomerDAO cobj=new CustomerDAO();
     Collection<Plain> al=cobj.get(Str);

     if(al!=null)
     {
          for(Plain p:al)

          {
               int getaccno=p.getA();
               String getacctype=p.getB();
               double getbal=p.getC();


%>


<tr><td><%=getacctype%></td><td><%=getaccno
%></td><td><%=getbal%></td></tr>


<%


          }
}

}

catch(ClassNotFoundException e)
{
       e.printStackTrace();

     // out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
}

catch(SQLException e)
{
```

```
            e.printStackTrace();
            //out.println("<b> SQL Error!! "+e.getSQLState()+"</b>");
        }



%>

</table>
</center>
<br><br><br>
<center>
 <nav id="nav">
 <ul id="navigation">
 <a href="transaction.jsp"><h2>SEE TRANSACTION HISTORY</h2></a>
 <a href="transfermoney.jsp"><h2>TRANSFER MONEY</h2></a>

 <a href="firstpage.jsp"><h2>LOG OUT</h2></a>

 </li>
 </ul>
 </nav>

</center>
</form>
</body>
</html>
```

view.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-
8859-1" http-equiv="refresh" content="1">
<title>customer login</title>
</head>
<body>
<img src='view.jpg'
style='position:fixed;top:0px;left:0px;width:100%;height:100%;z-
index:-1;'>
<center><form action="SuccessServlet" method="post">
<br><br><b><h2>USERNAME</h2></b> <input type="text"
name="username"><br><br><br>
<b><h2>PASSWORD</h2></b> <input type="password"
name="password"><br><br><br><br>
<input type="submit" value="LOGIN"><br><br>
</form></center>
```

```
<a href='firstpage.jsp'><center><H2>GO TO PREVIOUS
MENU</H2></center></a>
</body>
</html>
```

viewcust.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <%@ page import="online.dao.*,java.sql.*,java.util.*" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Insert title here</title>
</head>
<body>
<center><h2>CREATE ACCOUNT FOR EXISTING CUSTOMER</h2></center>
<br>
<center>
<table border="1">
<tr><th>Name</th><th>DOB</th><th>Email</th><th>Account
Type</th><th>Account No.</th><th>Username</th><th>Balance</th></tr>
<%

try {

    CustomerDAO obj=new CustomerDAO();

    ArrayList<Customer> al=obj.getall();

    if(al!=null) {


        for(Customer c:al) {


    %>


<tr><td><%=c.getName()%></td><td><%=c.getDOB()%></td><td><%=c.getEma
il()%></td><td><%=c.getActype()%></td><td><%=c.getAccno()%></td><td>
<%=c.getUsername()%></td><td><%=c.getBalance()%></td></tr>


    <%
```

```
                }

        }

    }

        catch(ClassNotFoundException e)
        {
                e.printStackTrace();

                out.println("<b> Class Loading Error!!
"+e.getMessage()+"</b>");
        }

        catch(SQLException e)
        {
                e.printStackTrace();
                out.println("<b> SQL Error!! "+e.getSQLState()+"</b>");
        }




%>
</table>
</center>
<br>


<center><form ACTION="ExistCustServlet"method="post">

Username<input type="text" name="USERNAME"><br>
Password<input type="PASSWORD" name="PASSWORD"><br>

<input type="submit" value="Register"/>

<a href='man2.jsp'><center><h1>Back to previous menu</h1></a>

</form>

</center>


</body>
</html>
```

Certificate

This is to certify that Mr. Osama Ayoub of MCKV INSTITUTE OF ENGINEERING, registration number 111160110103 has successfully completed a project on online banking system using jee under the guidance of Mr. Titas RoyChowdhury.

_____

Titas RoyChowdhury

Globsyn finishing school

(a division of globsyn skills)

Certificate

This is to certify that Mr. Arnab Mallik of RCC Institute Of Information Technology, registration number 111170110113 has successfully completed a project on online banking system using jee under the guidance of Mr. Titas RoyChowdhury.

_____

Titas RoyChowdhury

Globsyn finishing school

(a division of globsyn skills)

Certificate

This is to certify that Mr. Debasish Sardar of RCC Institute Of Information Technology, registration number 111170110122 has successfully completed a project on online banking system using jee under the guidance of Mr. Titas RoyChowdhury

_____

Titas RoyChowdhury

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Certificate

This is to certify that Mr. Abhishek Saha of RCC Institute Of Information Technology, registration number 111170110098 has successfully completed a project on online banking system using jee under the guidance of Mr. Titas RoyChowdhury

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Certificate

This is to certify that Ms. Shreya Naskar of RCC Institute Of Information Technology, registration number 111170110157 has successfully completed a project on online banking system using jee under the guidance of Mr. Titas RoyChowdhury

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