

**BANK MANAGEMENT SYSTEM**

**Submitted By:**

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**Submitted To:**

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**BANK MANAGEMENT SYSTEM.**

There will be one ADMIN (manager) and unlimited number of employees and all the customers which have their account in this bank will be able to login to this application by their account number and pin. All the employees can be added and deleted by the manager and all the customers can be added and deleted by the employee.

**MANAGER:**

**1.Deactivation or activation of user account:**

As a manager i will be able to deactivate or activate the customer account**.**

**2.Deletion of customer account:**

As a manager I will be able to delete customer account without losing space.

**3.View customer complaints:**

As a manager I will be able to view all the complains sent by the customers.

**4.Add employee:**

I will be able to add employee.

**5.Delete employee:**

I will be able to delete employee.

**EMPLOYE:**

As an employee I will be able to:

**1.See Customers Information**:

I will be able to look at the customer information by the customer request by entering their name and id.

**2.Open Customer Account: -**

I will be able to open the bank account of the customer upon his request by adding his/her details like address, phone number etc.

**3.Change pin**:

I will be able to change the account pin of the customer upon his/her request.

**4.ATM Request:**

I will be able to add a customer request .To make a request statement to get a debit or credit card of a certain limit and certain bank type He can also request the bank officer to get a cheque book.

**5.Cash deposit:**

I will be able to add customer cash to his/her account.

**6.Cash Withdrawal:**

I will be able to add cash withdrawal request by the check.

**7. Change Customers Details:**

I will be able to change customer details by his\her request.

**8. To View All Customers ATM Request:**

I will be able to vie all customers atm request for example request to get cheque book.

**Customer (Bank account holder):**

As a customer I will be able to

**1.Account details:**

As a customer I will be able to view my account details by this option for example account type, his address etc.

**2.Check balance:**

As a customer I will be able to view my account balance with the help of this option.

**3.Active SMS Alert:**

By using this option I as a customer will be able to made a request to activate the “ SMS ALERT SYSTEM ” of the bank.

**4.Fund Transfer:**

As a customer I will be able to send money to someone else having an account in this bank.

**5.Activate online banking:**

As a customer I will be able to activate online banking facility of the bank by providing his security pin.

**6. Bill Payments:**

He can submit utilities bills e.g. water, electricity etc. He can also submit mobile phone bills.

**7.Transaction details:**

The customer can view his/her transaction details by this option.

**8.To add complains:**

Customer can send complains directly to the manager.

**WIRE FRAME:**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* BANK MANAGEMENT SYSTEM \***

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**PRESS ANY KEY TO CONTINUE……………….**

**\***

SELECT YOUR CATEGORY………..

1.BANK OFFICER

2.CUSTOMER

3 MANAGER

4 LOGOUT

ENTER YOUR OPTION…………..

**MANAGER:**

1.DEACTIVATION OR ACTIVATION OF CUSTOMER ACCOUNT.

2.DELETION OF CUSTOMER AACCOUNT.

3.VIEW CUSTOMERS COMPLAINS.

4.ADD EMPLOYE.

5.DELETE EMPLOYE.

ENTER ANY OPTION……………………

1.DEACTIVATION OR ACTIVATION OF CUSTOMER ACCOUNT.

2.DELETION OF CUSTOMER AACCOUNT.

3.VIEW CUSTOMERS COMPLAINS.

4.ADD EMPLOYE.

5.DELETE EMPLOYE.

6.VIEW EMPLOYE WITH HISHEST EXPRECIENCES

ENTER ANY OPTION……………………1

ENTER YOUR CNIC……….

ENTER YOUR ACCOUNT NUMBER…………

ACCOUNT HAS BEEN DEACTIVATED…………..

1.DEACTIVATION OR ACTIVATION OF CUSTOMER ACCOUNT.

2.DELETION OF CUSTOMER AACCOUNT.

3.VIEW CUSTOMERS COMPLAINS.

4.ADD EMPLOYE.

5.DELETE EMPLOYE.

ENTER ANY OPTION……………………2

ENTER ACCOUNT NUMBER OF THE CUSTOMER …………

ENTER CNIC OF THE CUSTOMER………

ACCOUNT HAS BEEN ACTIVATED……………………

1.DEACTIVATION OR ACTIVATION OF CUSTOMER ACCOUNT.

2.DELETION OF CUSTOMER AACCOUNT.

3.VIEW CUSTOMERS COMPLAINS.

4.ADD EMPLOYE.

5.DELETE EMPLOYE.

ENTER ANY OPTION……………………3

227771 STAFF\_BEHAVIOR\_IS\_NOT\_GOOD.

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1.DEACTIVATION OR ACTIVATION OF CUSTOMER ACCOUNT.

2.DELETION OF CUSTOMER AACCOUNT.

3.VIEW CUSTOMERS COMPLAINS.

4.ADD EMPLOYE.

5.DELETE EMPLOYE.

ENTER ANY OPTION……………………4

Enter name of the employe…….

Enter rank of the employe…………

Enter salary of the employe…………………

Enter id of the employe…………….

Enter password of the employe………………

1.DEACTIVATION OR ACTIVATION OF CUSTOMER ACCOUNT.

2.DELETION OF CUSTOMER AACCOUNT.

3.VIEW CUSTOMERS COMPLAINS.

4.ADD EMPLOYE.

5.DELETE EMPLOYE.

ENTER ANY OPTION……………………6

Enter name of the employee………….

Enter employe id…………………

FOR ADMIN (BANK OFFICER):

1.ENTER YOUR EMPLOY ID=EMPLOY\_22

2.ENTER YOUR PASSWORD=INFORMATION\_SECTOR

3. PREVIOUS WINDOW.

JJ

WELCOME DEAR EMPLOYE….

PRESS ANY KEY TO CONTINUE…………………………………………………….

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………1

MAIN MENUE > OPEN CUSTOMER BANK ACCOUNT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER CUSTOMER NAME =MUSAWIR

ENTER CUSTOMER PHONE NUMBER =03204502556.

ENTER CUSTOMER ADRESS =HOUSE NO1\_JOHAR\_\_TOWN.

ENTER CUSTOMER CNIC =332221245876

ENTER CUSTOMER NATIONALITY =PAKISTANI.

BANK ACCOUNT HAS BEEN ACTIVATED…………….

PRESS ANY KEY TO SEE DETAILS…………

MAIN MENUE > OPEN CUSTOMER BANK ACCOUNT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NAME = MUSAWIR.

PHONE NUMBER =03204502556.

ADDRESS= HOUSE\_NO1\_JOHAR\_\_TOWN.

CNIC =332221245876

NATIONALITY =PAKISTANI.

PRESS ANY KEY TO CONTINUE……………….

YOUR ACCOUNT NUMBER IS=\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.

YOUR PIN IS =\*\*\*\*\*\*\*\*\*\*\*.

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………2

MAIN MENUE > CUSTOMER INFORMATION

ENTER ACCOUNT NUMBER OF THE CUSTOMER =\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER SECURITY PIN = \*\*\*\*\*\*\*\*\*\*\*

.COM.COM

MAIN MENUE > OPEN CUSTOMER BANK ACCOUNT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NAME = MUSAWIR.

PHONE NUMBER =03204502556.

ADDRESS= HOUSE\_NO1\_JOHAR\_\_TOWN.

CNIC =332221245876

NATIONALITY =PAKISTANI.

PRESS ANY KEY TO CONTINUE……………….

.COM

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………3

MENUE > CHANGE PIN

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER ACCOUNT NUMBER OF THE CUSTOMER =\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER PIN OF THE CUSTOMER =\*\*\*\*\*\*\*\*\*\*\*

MENUE > CHANGE PIN

ENTER NEW PIN =\*\*\*\*\*\*\*\*

VERIFY NEW PIN =\*\*\*\*\*\*\*\*

PIN HAS BEEN UPDATED SUCESSFULLT………………….

PRESS ANY KEY TO CONTINUE…………………………..

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………4

MAIN MENUE > ATM REQUEST

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.REQUEST FOR CREDIT/DEBIT CARD.

2.REQUEST FOR CHEQUE BOOK.

3. REQUEST OF DEACTIVATION OF ACCOUNT .

ENTER ANY REQUEST ……………

.COM.COM.COM.COM.COM.COM.COM.COM.COM

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………5

MAIN MENUE > DEPOSIT CASH

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER CUSTOMER ACCOUNT NUMBER =\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER CUSTOMER CNIC =\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MAIN MENUE > DEPOSIT CASH

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER AMMOUNT TO BE DEPOSIT =1000000.

AMMOUNT HAS BEEN DEPOSIT TO THE USER ACCOUNT SICESSFULLY

MAIN MENUE>

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.OPEN CUSTOMER BANK ACCOUNT.

2.TO SEE CUSTOMERS INFORMATION.

3.TO CHANGE CUSTOMERS PIN.

4.ATM REQUEST.

5.TO DEPOSIT CUSTOMERS CASH.

6.TO CHANGE CUSTOMERS DETAILS.

7.TO WITHDRAW CASH.

8.TO VIEW CUSTOMER REQUEST.

9.LOGOUT.

ENTER ANY OPTION……………6

MAIN MENUE > CHANGE CUSTOMER DETAILS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER CUSTOMER ACCOUNT NUMBER =\*\*\*\*\*\*\*\*\*\*\*\*\*

ENTER CUSTOMER CNIC =\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SELECT YOUR CATEGORY………...

1.BANK OFFICER

2.CUSTOMER

ENTER YOUR OPTION………….2

1.ENTER YOUR ACCOUNT NUMBER =\*\*\*\*\*\*\*\*\*\*\*

2.ENTER YOUR PIN =\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

3. PREVIOUS WINDOW.

WELCOME CUSTOMER\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

PRESS ANY KEY TO CONTINUE…………………………………………………….

MAIN MENUE >

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.ACCOUNT DETAILS

2.CHECK BALANCE

3. ACTIVE SMS ALERT

4. FUND TRANSFER

5.ACTIVE ONLINE BANKING

6.BILL PAYMENT

7.TRANSACTION DETAILS

8.LOGOUT

ENTER ANY OPTION………………1

MAIN MENUE > ACCOUNT DETAILS

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NAME = MUSAWIR.

PHONE NUMBER =03204502556.

ADDRESS= HOUSE\_NO1\_JOHAR\_\_TOWN.

CNIC =332221245876

NATIONALITY =PAKISTANI.

PRESS ANY KEY TO CONTINUE……………..

MAIN MENUE >

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.ACCOUNT DETAILS

2.CHECK BALANCE

3. ACTIVE SMS ALERT

4. FUND TRANSFER

5.ACTIVE ONLINE BANKING

6.BILL PAYMENT

7.TRANSACTION DETAILS

8.LOGOUT

ENTER ANY OPTION………………2

MAIN MENUE > BALANCE CHECK

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

YOUR CURRENT BALANCE IS 100000 RS.

MAIN MENUE >

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.ACCOUNT DETAILS

2.CHECK BALANCE

3. ACTIVE SMS ALERT

4. FUND TRANSFER

5.ACTIVE ONLINE BANKING

6.BILL PAYMENT

7.TRANSACTION DETAILS

8.LOGOUT

ENTER ANY OPTION………………3

MAIN MENUE > ACTIVE SMS ALERT

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.PRESS 1 IF YOU WANT TO ACTIVATE SMS ALERT ON CURRENT NUMBER

2 TO CHANGE NUMBER

ENTER ANY OPTION…………

MAIN MENUE >

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.ACCOUNT DETAILS

2.CHECK BALANCE

3. ACTIVE SMS ALERT

4. FUND TRANSFER

5.ACTIVE ONLINE BANKING

6.BILL PAYMENT

7.TRANSACTION DETAILS

8.LOGOUT

ENTER ANY OPTION………………4

MAIN MENUE > FUND TRANSFER

ENTER ACCOUNT NNNNUMBER TO TRANSFER FUND =\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.

ENTER AMMOUNT TO TRANSFER =100000.

AMMOUNT HAS BEEN TRANSFERRED SUCESSFULLY………..

PRESS ANY KEY TO CONTINUE

MAIN MENUE >

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.ACCOUNT DETAILS

2.CHECK BALANCE

3. ACTIVE SMS ALERT

4. FUND TRANSFER

5.ACTIVE ONLINE BANKING

6.BILL PAYMENT

7.TRANSACTION DETAILS

8.LOGOUT

ENTER ANY OPTION………………6

MAIN MENUE > BILL PAYMENT

1.TO PAY ELECTRIC BILL

2.TO PAY GAS BILL

3.TO PAY SIM CARRIER BILL

ENTER ANY OPTION………………….. 1

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MAIN MENUE > BILL PAYMENT

ENTER REFRENCE NUMBER TO PAY BILL =\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*.

ENTER AMMOUNT TO TRANSFER =1000.

BILL HAS BEEN PAYED SUCESSFULLY………..

PRESS ANY KEY TO CONTINUE………….

MAIN MENUE >

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1.ACCOUNT DETAILS

2.CHECK BALANCE

3. ACTIVE SMS ALERT

4. FUND TRANSFER

5.ACTIVE ONLINE BANKING

6.BILL PAYMENT

7.TRANSACTION DETAILS

8.LOGOUT

ENTER ANY OPTION………………7

MAIN MENUE > TRANSACTIONAL DETAILS

BILLING TYPE AMMOUNT

ELECTRIC BILL 10000

FUND TRANSFER 1000000.

MAIN MENUE > TO SEE CUSTOMERS INFORMATION

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

NAME = MUSAWIR.

PHONE NUMBER =03204502556.

ADDRESS= HOUSE\_NO1\_JOHAR\_\_TOWN.

CNIC =332221245876

NATIONALITY =PAKISTANI.

PRESS ANY KEY TO CONTINUE……………………



DATA STRUCTURE:

string employe\_id[10];

string password[10];

string customer\_name[10];

string customer\_phone\_number[10];

string customer\_address[10];

string customer\_cnic[10];

string customer\_nationality[10];

string employe\_name[10];

string employe\_rank[10];

int employe\_salary[10];

int account\_number[10];

int account\_n[10];

int counter = 0;

int counter1 = 0;

int pin[10];

int count0 = 0;

int employe\_counter = 0;

int atm\_request\_account\_number[100];

string atm\_request\_cnic[100];

string atm\_request\_name[100];

string atm\_request\_message[100];

string active\_sms[10];

string online\_banking[10];

int customer\_money[100];

int p = 3422;

int a\_no = 227771;

int count = 0;

int idx0;

string transaction\_type[100];

int transaction\_account\_no[100];

int transaction\_ammount[100];

int transaction\_tr\_account[100];

int deactivation\_account[100];

string reasons[100];

string complains[100];

int complain\_account[100];

int counter\_complain = 0;

**FUNCTIONS:**

void intro\_menu();

int main\_menu();

void admin\_security1();

void employe\_id\_checker(string employe\_id\_temp, string password\_temp);

void admin\_main\_menu();

void add\_employe();

int admin\_option\_check(int option);

void add\_customer();

void change\_details(int count);

void display\_customer\_info(int count);

void account\_number\_pin\_display();

void view\_customer\_info();

void change\_customer\_details();

void change\_pin();

int customer\_idx();

void customer\_money\_f();

void atm\_request\_f();

void withdraw\_cash();

void view\_atm\_request();

void customer\_security1();

int check\_customer\_option(int option);

void customer\_main\_menu(int x);

void account\_details();

void check\_balance();

void active\_sms\_banking();

void fund\_transfer();

void active\_online\_banking();

void bill\_payment();

void transaction\_details();

void deactivation\_account\_f();

int manager\_option\_check(int option);

void manager\_menu();

void deletion\_of\_account();

void send\_complain();

void view\_complains();

void add\_employe\_to\_string(string name, string rank, int salary, string employe\_id\_temp, string password\_temp);

void add\_customer\_to\_string(string customer\_name\_temp,string customer\_phone\_number\_temp,string customer\_address\_temp,string customer\_cnic\_temp,string customer\_nationality\_temp);

void view\_all\_employe();

void employe\_deletion();

void test\_data();

void sort();

**ALGORITHM:**

**Int Main \_ menu ( )**

**STEP 1:** DISPLAY MENU.

**STEP 2:** DECLARE INT OPTION.

**STEP 3**: READ OPTION.

**STEP 4**: IF(OPTION==1) execute ADMIN SECURITY ( ) .IF (OPTION ==2) EXECUTE

CUSTOMER SECURITY

**VOID Admin \_ security ( )**

**STEP 1:** READ EMPLOY ID AND EMPLOY PASSWORD.

**STEP 2:** IF ( EMPLOY\_ ID == “MUSAWIR” && EMPLOY \_ PASSWORD== “1234”)

THEN DISPLY ADMIN MENU ( ) ELSE DISPLAY INVALID USER NAME OR PASSWORD.

**VOID Customer \_ Security ( )**

**STEP 1:** If account \_number and pin entered by the user is present in the array number and pin array then display customer \_ menu ( ) else display invalid user name or password.

**Int admin \_ menu ( )**

**STEP 1:** START

**STEP 2:** Display a series of menu which has 7 option

**STEP 3:**  Read option.

If (option==1) executes the add customer ( ) function

If (option==2) executes the customer \_ information \_ view ( )function

If (option==3) executes the tm request ( )function

If (option==4) executes the deposit cash ( )function

If (option==5) executes the change \_ details ( )function

If (option==6) executes the Withdraw \_ cash ( )function

If (option==7) executes customer request ( ) function

**STEP 4:** END

**Void add \_ Customer ( )**

**STEP 1:** START

**STEP 2:** READ CUSTOMER NAME, CUSTOMER Phone number , CUSTOMER address , CUSTOMER Cnic , CUSTOMER Narionality.

**STEP 3:**END

**VOID CUSTOMER\_INFORMATION ( )**

**STEP 1:**START

**STEP 2**: DISPLAY CUSTOMER NAME, CUSTOMER Phone number , CUSTOMER address , CUSTOMER Cnic , CUSTOMER Narionality.

**STEP 3: END.**

**VOID ATM REQUEST ( )**

**STEP 1**:START

**STEP2:** READ OPTION.

**STEP 3**: IF(OPTION==1) DISPLAY DEBIT CARD REQUEST HAS BEEN SEND

IF(OPTION==2) DISPLAY REQUEST FOR CHEQUE BOOK HAS BEEN SEND.

IF(OPTION==3) DISPLAY REQUEST FOR DEACTIVATION OF ACCOUNT HAS BEEN SENT.

**STEP 4**:END.

**VOID Deposit \_ Cash ( )**

**Step 1: Start**

**STEP 2:** READ AMMOUNT**.**

**STEP 3**: MONEY=MONEY+AMMOUNT

**STEP 4** END.

**Void change details ( )**

**Step 1:**START.

**Step 2**: READ option.

If(option==1) read customer name

If(option==2) read customer\_phone \_ number

If(option==3) read customer\_ address

If(option==4) read customer cnic.

If(option==5) read nationality

**STEP 3**:END

**Void withdraw \_ cash( )**

**STEP1:** Start

**STEP 2:**READ AMMOUNT **.**

**STEP 3:**MONEY=MONEY-AMMOUNT**.**

**STEP 4:**END

**Void Customer request ( )**

**STEP 1:**START.

**STEP 2:**DISPLAY All Customer requests by for loop execute it util counter.

**Void account\_details ( )**

**Step1:** Start

**Step2 :** DISPLAY CUSTOMER NAME, CUSTOMER Phone number , CUSTOMER address , CUSTOMER Cnic , CUSTOMER Narionality OF THE PARTICULAR CUSTOMER BY FINDING ITS INDEX BY FOR LOOP .

STEP 3:END.

**VOID CHECK BALANCE :**

**STEP 1:** START.

**STEP 2:** DISPLAY MONEY

**STEP 3 :** END

**Void Active sms Alert ( )**

**Step 1:** Start

**STEP 2:** READ option.

**STEP3 :**display

press 1 to activate sms alert on current number

press 2 to change number .

**step 3:read option.**

**Step 4:**

If (option==1)

Display sms alert system has been activated.

If(option==2)

Read customer\_phone\_number

Then Display sms alert system has been activated**.**

**Void Fund\_ Transfer( )**

**STEP 1:** START

**STEP 2:** READ Account number where fund has to be transferred .

**STEP 3:** READ Ammount.\

**STEP 4:** MONEY =MONEY-Ammount.

**Step 5:**DISPLAY Ammount has been transferred **.**

**Step 6:**END.

**Void Active \_ online \_banking ( )**

**STEP 1**: START.

**STEP 2:** if (online\_banking[idx]==1)display online banking has been activated else online banking has been deactivated

**STEP 3:END**

**VOID bill \_payment( )**

**STEP 1 :**START

**STEP 2:**READ bill\_type

**Step 3:**

if(bill\_type==1) read reference number for water bill .and compare amount inaccount and price .if price is higher than the account balance than bills cannot be payed.

if(bill\_type ==2) read reference number for gas bill . and compare amount inaccount and price .if price is higher than the account balance than bills cannot be payed.

if(bill\_type ==3) read reference number for phone bill . and compare amount inaccount and price .if price is higher than the account balance than bills cannot be payed.

**STEP 4**: READ amount**.**

**STEP 5:** money =money-ammount;

**STEP 6:**END.

**VOID Transactions Details ( )**

**STEP 1:**START

**STEP 2:**display all the transitions of the particular customer by transaction **array.**

If(transaction\_account\_no==account no[idx]) display all transaction of account account\_no[idx]

**STEP 3:**END.

**Void deactivation\_account\_f()**

STEP1:check the index of the account number entred by the manager by if condition.

Step2:READ Account.

STEP3:if(Account==account[idx])

Deactivation[idx]=1;

STEP 4:END

**void deletion\_of\_account();**

STEP1:START

STEP2:First get the idx of the specific account entered by the manager by customer idx function..

STEP3:Now store the data on the next idx on this idx by applying loop and by using two counter variables

int x = customer\_idx();

int temp\_idx1 = x;

int temp\_idx2 = x;

while (temp\_idx1 < counter)

{

temp\_idx2 = temp\_idx1 + 1;

customer\_cnic[temp\_idx1] = customer\_cnic[temp\_idx2];

customer\_name[temp\_idx1] = customer\_name[temp\_idx2];

temp\_idx1 = temp\_idx1 + 1;

}

**void send\_complain()**

STEP1=START.

STEP2=READ complain .

STEP3:complain[idx]=complain

STEP 4:END

**void view\_complains()**

STEP1:START.

STEP2:for(int x=0;x<counter;x++)

Cout<<complain[x];

STEP3:END.

STEP1: Make a copy of the employe\_experience array.

STEP2:now apply the sorting algorithm to print the values of the employe with respect to there experirnces in this firld

STEP3:end