

**WIPRO**  
**MAINFRAME INTERNSHIP BATCH 1**  
**CAPSTONE PROJECT**

**BANKING MANAGEMENT  
SYSTEM**

**DONE BY:**  
**GROUP-6**

	<b>NAME</b>	<b>SUPERSET-ID</b>
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# **BANKING MANAGEMENT SYSTEM**

## **REPORT**

### **ABSTRACT**

This project is about banking system administration, in which the administrator can add and delete both retail and corporate clients, while the user can access and update their information if necessary.

### **TECHSTACK**

- **CICS (Customer Information Control System):**

a general-purpose transaction processing subsystem for the z/OS® operating system and screen design.

- **COBOL (Common Business Oriented Language):**

COBOL is primarily used in business, finance, and administrative systems for companies and governments. COBOL is still widely used in applications deployed on mainframe computers, such as large-scale batch and transaction processing jobs.

- **DB2 (RDBMS):**

DB2 is designed to store, analyze and retrieve the data efficiently.

- **DCLGEN (Declaration Generator):**

a structure-generating utility that maps the columns of a database table into a structure (a COBOL record) that can be included in an embedded SQL declaration section.

- **JCL (Job Control Language):**

Job control language (JCL) is a set of statements that you code to tell the z/OS® operating system about the work you want it to perform.

# OUTPUT

## HOME SCREEN:

Here user type should be selected by inputting 1 or 2 and then pressing enter key.

## KEY FUNCTION:

- F3 -Exit
- Enter -Go to Employee Login Screen
- F5 -Clear the input field

```
                                DATE : 2022-05-10
                                TIME : 11:23:20
                                WELCOME TO ABC BANK OF INDIA
                                *****
                                OPTION MENU

                                OPTIONS

                                1. EMPLOYEE
                                2. CUSTOMER

                                ENTER OPTION NUMBER: 1

                                F3:EXIT          PRESS ENTER TO SELECT          F5:CLEAR
```

## EMPLOYEE LOGIN SCREEN:

Here employee can enter the user ID and password to log in.

### KEY FUNCTION:

- F4 -Go Back
- Enter -Login
- F5 -Clear the input field

```
BANKING SYSTEM
*****
EMPLOYEE VALIDATION MENU

USER ID :  EMPGR6
PASSWORD :  GR6123_

PRESS ENTER TO LOGIN

F4 : GOBACK                                F5 : CLEAR
```

DATE : 2022-05-10  
TIME : 12:14:42

## ADMIN HOMESCREEN:

Here admin can add or delete customer by inputting 1 or 2 and then pressing enter key.

### KEY FUNCTION:

- F6 -Logout
- Enter -Enter to Add customer screen
- F5 -Clear the input field

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
                                TIME : 11:24:34
                                MAIN MENU

OPTIONS

      1. ADD NEW CUSTOMER ACCOUNT
      2. DELETE CUSTOMER ACCOUNT
ENTER OPTION NUMBER:  1

                                PRESS ENTER TO SELECT

F6 : LOG OUT                                F5 : CLEAR
```

## ADD CUSTOMER SCREEN:

Here employee can enter the customer details and can create a new customer account by pressing F9.

### KEY FUNCTION:

- F4 -Go Back
- F9 -To create a new customer with the inputted details
- F5 -Clear the input field

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
ADD NEW CUSTOMER                             TIME : 11:27:17

ACCOUNT NUMBER      : 0000000018
CUSTOMER NAME       : MONISH_____ PARTHI_____
DATE OF BIRTH       : 2001-02-10 (YYYY-MM-DD)
DATE OF OPENING ACC: 2022-05-10 (YYYY-MM-DD)
CUSTOMER ADDRESS    : QWERT WERT
                    YU SDFGH C
                    VBN FGHGH
                    CVBN RTYJ_
CUSTOMER TYPE       : R                ENTER R-RETAIL
                                   ENTER C-CORPORATE
OPENING DEPOSIT     : $ 00001548

F9 : ADD CUSTOMER      F4 : GOBACK      F5 : CLEAR
```

After clicking F9 new customer account will be created and success message will be displayed along with the user ID and Password.

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
ADD NEW CUSTOMER                             TIME : 11:28:26

ACCOUNT NUMBER      : 0000000019
CUSTOMER NAME       : _____
DATE OF BIRTH       : _____ (YYYY-MM-DD)
DATE OF OPENING ACC: 2022-05-10 (YYYY-MM-DD)
CUSTOMER ADDRESS    : _____
                    _____
                    _____
CUSTOMER TYPE       : -                ENTER R-RETAIL
                                   ENTER C-CORPORATE
OPENING DEPOSIT     : $ 00000000

CUSTOMER ADDED AND SHARE USER ID AND PASS
USER ID : MONI02 PASS : 10PART

F9 : ADD CUSTOMER      F4 : GOBACK      F5 : CLEAR
```

The customer details can be viewed in SPUFI

```
Menu Utilities Compilers Help
-----
BROWSE WPR061.FEB21.PROJ.SQLOUT Line 00000025 Col 001 080
DEEP09 24AGGA A
FARA09 21KHAN A
SHAL07 02GUPT A
HIMR01 31SING A
DEPA09 28VERM A
JOGI07 14SHAR A
JATI09 18MARP A
MONI02 10PART A
DSNE610I NUMBER OF ROWS DISPLAYED IS 18
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
-----+-----+-----+-----+-----+-----+-----+-----+
SELECT * FROM CUSTOMERS_TB; 00100066
-----+-----+-----+-----+-----+-----+-----+-----+
C_USER_ID C_PASS ACNT_NUM CUST_NAME DOB DO_OPEN
-----+-----+-----+-----+-----+-----+-----+-----+
PAWA01 28SHAH 17. PAWAN KUMAR SHAH 2000-01-28 2022-05
KAPI02 28SONI 2. KAPIL KUMAR SONI 1999-02-28 2022-05
RAHU08 15RAJP 3. RAHUL SINGH RAJPUT 1990-08-15 2022-05
JATI12 31JAIN 4. JATIN KUMAR JAIN 1999-12-31 2022-05
YAJA09 28GOPL 5. YAJASH KUMAR GOPLANI 1987-09-28 2022-05
UMES02 21YADA 6. UMESH KUMAR YADAV 1995-02-21 2022-05
VIME03 29YADA 7. VIMESH KUMAR YADAV 1994-03-29 2022-05
NIKI06 09SHAR 8. NIKITA SHARMA 2003-06-09 2022-05
GURP11 30SIND 9. GURPREET SINGH SINDHU 2001-11-30 2022-05
DEEP09 24AGGA 10. DEEPAI AGGARWAL 1999-09-24 2022-05
Command ==>
F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
*ISRBROB
```

```
Menu Utilities Compilers Help
-----
BROWSE WPR061.FEB21.PROJ.SQLOUT Line 00000050 Col 001 080
FARA09 21KHAN 11. FARAHA KHAN 1991-09-21 2022-05
SHAL07 02GUPT 12. SHALINI GUPTA 1980-07-02 2022-05
HIMR01 31SING 13. HIMRAN KAUR SINGH 1979-01-31 2022-05
DEPA09 28VERM 14. DEPANSHU KUMAR VERMA 1976-09-28 2022-05
JOGI07 14SHAR 15. JOGINDER SHARMA 1976-07-14 2022-05
JATI09 18MARP 16. JATIN MADWA 1987-08-18 2022-05
MONI02 10PART 18. MONISH PARTHI 2001-02-10 2022-05
DSNE610I NUMBER OF ROWS DISPLAYED IS 17
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
-----+-----+-----+-----+-----+-----+-----+-----+
DSNE617I COMMIT PERFORMED, SQLCODE IS 0
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 0
-----+-----+-----+-----+-----+-----+-----+-----+
DSNE601I SQL STATEMENTS ASSUMED TO BE BETWEEN COLUMNS 1 AND 72
DSNE620I NUMBER OF SQL STATEMENTS PROCESSED IS 2
DSNE621I NUMBER OF INPUT RECORDS READ IS 12
DSNE622I NUMBER OF OUTPUT RECORDS WRITTEN IS 67
***** Bottom of Data *****
Command ==>
F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
*ISRBROB
```

## HOME SCREEN:

Now, entering to the Customer login page using the input 2 and then clicking enter.

```

                                WELCOME TO ABC BANK OF INDIA
                                *****
                                OPTION MENU

                                OPTIONS

                                1. EMPLOYEE
                                2. CUSTOMER

                                ENTER OPTION NUMBER: 2

                                F3:EXIT          PRESS ENTER TO SELECT          F5:CLEAR

                                DATE : 2022-05-10
                                TIME : 11:52:02

```

## CUSTOMER LOGIN SCREEN:

Here customer can enter the login details and login by pressing Enter key

### KEY FUNCTION:

- F4 -Go Back
- Enter -Login
- F5 -Clear the input field

```

                                BANKING SYSTEM
                                *****
                                CUSTOMER VALIDATION MENU

                                USER ID : MONI02
                                PASSWORD : 10PARI

                                PRESS ENTER TO LOGIN

                                F4 : GOBACK          F5 : CLEAR

                                DATE : 2022-05-10
                                TIME : 12:25:48

```



After logging in UPDATE CUSTOMER SCREEN will appear.

### UPDATE CUSTOMER SCREEN:

Here account number should be entered and F6 key should be pressed to fetch customer details.

#### KEY FUNCTION:

- F4 -Logout
- F6 -To fetch details
- F1 -To update customer address
- F9 -To deposit or withdraw money
- F5 -Clear the input field

```

                                BANKING SYSTEM                                DATE : 2022-05-10
                                *****                                TIME : 11:52:57
                                UPDATE  CUSTOMER

ACCOUNT NUMBER      : 0000000018
CUSTOMER NAME       : _____
DATE OF BIRTH       : _____ (MM/DD/YY)
DATE OF OPENING ACC: _____ (MM/DD/YY)
CUSTOMER ADDRESS    : _____
                   : _____
                   : _____
                   : _____
CUSTOMER TYPE       : -             ENTER R-RETAIL
                                ENTER C-CORPORATE
BALANCE             : $ _____

****ENTER EITHER DEPOSIT OR WITHDRAWAL****
DEPOSIT             : $ 00000000
WITHDRAW            : $ 00000000

F1 : UPDATE ADDRESS      F9 : DEPOSIT OR WITHDRAWAL
F5 : CLEAR                F6 : GET DETAIL          F4 : LOGOUT

```

Updating address (Press F1 key)

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
UPDATE  CUSTOMER                                TIME : 11:53:30

ACCOUNT NUMBER      : 0000000018
CUSTOMER NAME       : MONISH_____ PARTHI__
DATE OF BIRTH       : 02/10/01      (MM/DD/YY)
DATE OF OPENING ACC: 05/10/22      (MM/DD/YY)
CUSTOMER ADDRESS    : QWERT_WERT
                    YU_SDFGH_C
                    VBN_FGHGH_
                    CVBN_RTYJ_

CUSTOMER TYPE       : R                ENTER R-RETAIL
                                   ENTER C-CORPORATE

BALANCE             : $ 00001548

****ENTER EITHER DEPOSIT OR WITHDRAWAL****
DEPOSIT             : $ 00000000
WITHDRAW            : $ 00000000

F1 : UPDATE ADDRESS      F9 : DEPOSIT OR WITHDRAWAL
F5 : CLEAR               F6 : GET DETAIL          F4 : LOGOUT
```

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
UPDATE  CUSTOMER                                TIME : 11:54:30

ACCOUNT NUMBER      : 0000000018
CUSTOMER NAME       : _____
DATE OF BIRTH       : _____      (MM/DD/YY)
DATE OF OPENING ACC: _____      (MM/DD/YY)
CUSTOMER ADDRESS    : _____
                    _____
                    _____
                    _____

CUSTOMER TYPE       : -                ENTER R-RETAIL
                                   ENTER C-CORPORATE

BALANCE             : $ _____

****ENTER EITHER DEPOSIT OR WITHDRAWAL****
DEPOSIT             : $ 00000000
WITHDRAW            : $ 00000000

ADDRESS UPDATED SUCCESSFULLY

F1 : UPDATE ADDRESS      F9 : DEPOSIT OR WITHDRAWAL
F5 : CLEAR               F6 : GET DETAIL          F4 : LOGOUT
```

Deposit/Withdrawal (F9 key)

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
UPDATE  CUSTOMER                                TIME : 11:55:05

ACCOUNT NUMBER      : 0000000018
CUSTOMER NAME       : MONISH_____ PARTHI__
DATE OF BIRTH       : 02/10/01      (MM/DD/YY)
DATE OF OPENING ACC: 05/10/22      (MM/DD/YY)
CUSTOMER ADDRESS    : ABCD_EFGH_
                   : IJK_LMNO_P
                   : QRST_UVW_X
                   : YZ_____JSN_

CUSTOMER TYPE       : R              ENTER R-RETAIL
                                ENTER C-CORPORATE

BALANCE             : $ 00001548

*****ENTER EITHER DEPOSIT OR WITHDRAWAL*****
DEPOSIT              : $ 00000200
WITHDRAW             : $ 00000000

F1 : UPDATE ADDRESS      F9 : DEPOSIT OR WITHDRAWAL
F5 : CLEAR                F6 : GET DETAIL          F4 : LOGOUT
```

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
UPDATE  CUSTOMER                                TIME : 11:56:20

ACCOUNT NUMBER      : 0000000018
CUSTOMER NAME       : _____
DATE OF BIRTH       : _____      (MM/DD/YY)
DATE OF OPENING ACC: _____      (MM/DD/YY)
CUSTOMER ADDRESS    : _____
                   : _____
                   : _____
                   : _____

CUSTOMER TYPE       : _              ENTER R-RETAIL
                                ENTER C-CORPORATE

BALANCE             : $ _____

*****ENTER EITHER DEPOSIT OR WITHDRAWAL*****
DEPOSIT              : $ 00000000
WITHDRAW             : $ 00000000

AMOUNT ADDED TO ACCOUNT
PRESS F6 TO CHECK AMOUNT

F1 : UPDATE ADDRESS      F9 : DEPOSIT OR WITHDRAWAL
F5 : CLEAR                F6 : GET DETAIL          F4 : LOGOUT
```

Details getting updated in SPUFI.

```

Menu      Utilities      Compilers      Help
-----
BROWSE    WPR061.FEB21.PROJ.SQLOUT      Line 000000050 Col 081 160
-07      23423 2342 498293 234 4QWEQE QWE QEQ 4QWEQE C      9903200.
-07      DWEFW WWEF W BG-06 PASCHIM PURI-78 C      1232300.
-07      WEFW RWER SEC076 BG5 VASANTKUNJ NEW DELHI R      93400000.
-07      THSD PKT-2 PASCHIM KUNJ NEW DELHI-09 R      4340000.
-07      685 PKT-09 PASCHIM VIHAR NEW DELHI-78 R      9090200.
-07      FGHF FGHF FGHF FGHF FGHF FGHF FGHF FGHF R      5874333.
-10      ABCD EFGH IJK LMNO P QRST UVW X YZ JSN R      1748.

-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+-----+-----+-----+-----+-----+-----+

***** Bottom of Data *****

Command ==>
F1=Help      F2=Split    F3=Exit     F5=Rfind    F7=Up       F8=Down     F9=Swap
F10=Left     F11=Right   F12=Cancel
*ISRBROB

```

## EMPLOYEE MAIN MENU SCREEN

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
MAIN MENU

OPTIONS

1. ADD NEW CUSTOMER ACCOUNT
2. DELETE CUSTOMER ACCOUNT
ENTER OPTION NUMBER:  2

PRESS ENTER TO SELECT

ENTER CORRECT PF KEYS

F6 : LOG OUT                                F5 : CLEAR
```

### DELETE CUSTOMER SCREEN:

Here employee can enter customer account number then press enter to fetch their details.

#### KEY FUNCTION:

- F4 -Go Back
- Enter -Get details
- F5 -Clear the input field
- F6 -Delete customer account and its details

```
BANKING SYSTEM                                DATE : 2022-05-10
*****
DELETE CUSTOMER                                TIME : 12:00:51

ACCOUNT NUMBER      : 0000000018
DATE OF BIRTH       : _____ (MM/DD/YY)
CUSTOMER NAME       : _____
CUSTOMER TYPE       : _          R-RETAIL
                                   C-CORPORATE

PRESS ENTER TO GET DETAILS

F6 : DELETE                                F4 : GOBACK                                F5 : CLEAR
```

BANKING SYSTEM		DATE : 2022-05-10
*****		
DELETE CUSTOMER		TIME : 12:01:49
ACCOUNT NUMBER	:	0000000018
DATE OF BIRTH	:	10/02/01 (MM/DD/YY)
CUSTOMER NAME	:	MONISH_____ PARTHI__
CUSTOMER TYPE	:	R R-RETAIL C-CORPORATE
PRESS ENTER TO GET DETAILS		
F6 : DELETE	F4 : GOBACK	F5 : CLEAR

To delete account (F6 key)

BANKING SYSTEM		DATE : 2022-05-10
*****		
DELETE CUSTOMER		TIME : 12:02:14
ACCOUNT NUMBER	:	_____
DATE OF BIRTH	:	_____ (MM/DD/YY)
CUSTOMER NAME	:	_____
CUSTOMER TYPE	:	— R-RETAIL C-CORPORATE
PRESS ENTER TO GET DETAILS		
ACCOUNT DELETED!!		
F6 : DELETE	F4 : GOBACK	F5 : CLEAR

After Deleting, the data get removed from SPUIFI

```

Menu    Utilities    Compilers    Help
-----
BROWSE   WPR061.FEB21.PROJ.SQLOUT   Line 00000025 Col 001 080
DEEP09   24AGGA  A
FARA09   21KHAN  A
SHAL07   02GUPT  A
HIMR01   31SING  A
DEPA09   28VERM  A
JOGI07   14SHAR  A
JATI09   18MARW  A
DSNE610I NUMBER OF ROWS DISPLAYED IS 17
DSNE616I STATEMENT EXECUTION WAS SUCCESSFUL, SQLCODE IS 100
-----
SELECT * FROM CUSTOMERS_TB;                                00100066
-----
C_USER_ID  C_PASS      ACNT_NUM  CUST_NAME      DOB      DO_OPEN
-----
PAWA01     28SHAH      17.    PAWAN    KUMAR    SHAH      2000-01-28  2022-05
KAPI02     28SONI      2.     KAPIL    KUMAR    SONI      1999-02-28  2022-05
RAHU08     15RAJP      3.     RAHUL    SINGH    RAJPUT    1990-08-15  2022-05
JATI12     31JAIN      4.     JATIN    SINGH    JAIN      1999-12-31  2022-05
YAJA09     28GOPL      5.     YAJASH   KUMAR    GOPLANI   1987-09-28  2022-05
UMES02     21YADA      6.     UMESH    KUMAR    YADAV     1995-02-21  2022-05
VIME03     29YADA      7.     VIMESH   KUMAR    YADAV     1994-03-29  2022-05
NIKI06     09SHAR      8.     NIKITA   SHARMA   SHARMA    2003-06-09  2022-05
GURP11     30SIND      9.     GURPREET SINGH  SINDHU    2001-11-30  2022-05
DEEP09     24AGGA     10.    DEEPALI   AGGARWAL 1999-09-24  2022-05
FARA09     21KHAN     11.    FARAHA    KHAN      1991-09-21  2022-05
Command ==>
F1=Help    F2=Split   F3=Exit    F5=Rfind   F7=Up      F8=Down    F9=Swap
F10=Left   F11=Right  F12=Cancel
*ISRBROB

```

## REPORT GENERATION

### CORPORATE CUSTOMERS:

```
WPR062
File Edit View Tools Help
Menu Utilities Compilers Help
-----
DSLST WPR061.FEB21.PROJ.REPORT1 Line 00000000 Col 001 080
***** Top of Data *****
***** BANKING SYSTEM DATE : 09/05/22 *****
DAILY REPORT OF CORPORATE CUSTOMER ON 2022-05-30 PAGE : 01
*****
ACCOUNT NUMBER CUSTOMER NAME BALANCE
*****
0000000002 ..KAPIL KUMAR SONI 009003400.00
0000000004 ..JATIN JAIN 007897900.00
0000000006 ..UMESH YADAV 009812300.00
0000000007 ..VIMESH KUMAR YADAV 009879900.00
0000000008 ..NIKITA SHARMA 010000000.00
0000000009 ..GURPREET SINGH SINDHU 009223200.00
*****
TOTAL NO OF CORPORATE CUSTOMER : 06.....TOTAL BALANCE : 0055816700.00
*****

Command ==>
F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
*DSLST
Online 29,15
```

### RETAIL CUSTOMERS:

```
WPR062
File Edit View Tools Help
Menu Utilities Compilers Help
-----
DSLST WPR061.FEB21.PROJ.REPORT2 Line 00000000 Col 001 080
***** Top of Data *****
***** BANKING SYSTEM DATE : 10/05/22 *****
DAILY REPORT OF RETAIL CUSTOMER ON 2022-06-30 PAGE : 01
*****
ACCOUNT NUMBER CUSTOMER NAME BALANCE
*****
0000000017 ..PAWAN KUMAR SHAH 050007800.00
0000000003 ..RAHUL SINGH RAJPUT 007882400.00
0000000005 ..YAJASH KUMAR GOPLANI 007979790.00
0000000013 ..HIMRAN KAUR SINGH 093400000.00
0000000014 ..DEPANSHU KUMAR VERMA 004340000.00
0000000015 ..JOGINDER SHARMA 009090200.00
*****
TOTAL NO OF RETAIL CUSTOMER : 06.....TOTAL BALANCE : 0172700190.00
*****

***** BANKING SYSTEM DATE : 10/05/22 *****
DAILY REPORT OF RETAIL CUSTOMER ON 2022-06-30 PAGE : 02
*****
ACCOUNT NUMBER CUSTOMER NAME BALANCE
*****
0000000016 ..JATIN MARWA 009076000.00
*****

Command ==>
F1=Help F2=Split F3=Exit F5=Rfind F7=Up F8=Down F9=Swap
F10=Left F11=Right F12=Cancel
*DSLST
Online 13,19
```



## **CONCLUSION**

In this world of modernization digital technology is getting more & more adaptable than the paperwork's. So, this online Banking System is a step addition to the process to make things easier.

Click [here](#) to view the code

**END**