

# **PROJECT REPORT ON**

## ***Mini Project on Bank Management System***

***By-***

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# Introduction

BANK MANAGEMENT SYSTEM, the main aim of this project is to develop software for bank management system. This project is to develop software for bank management system. This project has been developed to carry out the processes easily and quickly, which is not possible with the manual systems, which are overcome by this software. This project is developed using C language and. Hence it provides the complete solution for the current management system.



This bank management system also allow user to add new customer account, delete account and user can also modify existing user account information. Using this system user can also search any individual account in few seconds.

## BADGES

Build	CPP Check	Codiga
		 

## FOLDER STRUCTURE

Folder	Description
0_Certificates	All certificates screenshot
1_Requirements	Documents detailing requirements and research
2_Architecture	Document specifying design detail
3_Implementation	All codes and documentation
4_TestPlanAndOutput	Documents with test plans and output
5_Report	Documents related to project report
6_ImagesAndVideos	All images
7_Others	Contain files

# REQUIREMENTS

- INTRODUCTION

BANK MANAGEMENT SYSTEM, The main aim of this project is to develop software for bank management system. This project is to develop software for bank management system. This project has been developed to carry out the processes easily and quickly, which is not possible with the manual systems, which are overcome by this software. This project is developed using C language and. Hence it provides the complete solution for the current management system.

In bank management system we have two sub part admin and customer where the admin access is secured by login page whereas customer page can be access by entering a valid account number.

The admin can create an account as well as can perform any updated to that account if required. On the other hand, the customer can view his balance, details and can withdraw his/her money as per his need.

This topic was chosen because it gives me an opportunity to implement and understand multiple C programming concepts.

- RESEARCH

Bank Management System Features and Benefits

In the recent years, computers are included in almost all kind of works and jobs everyone come across in the routine. The availability of the software's for almost every process or every system has taken the world in its top-gear and fastens the

day-to-day life. So, we have tried our best to develop the software program for the Bank Management System where all the tasks to manage the bank system are performed easily and efficiently. It manages all the transactions like new account entry, deposit as well as withdraw entry, transaction of money for various processes, account management, managing bills cash or cheque, etc. Thus, above features of this software will save transaction time and therefore increase the efficiency of the system.

### **Benefits**

Bank Management System offers a range of benefits to providers medium and small. Here are just a few of them:

#### **Better Account Management**

This application provides you a mechanism store, update and delete account details as per your requirement.

#### **Less burden on employs**

Application is automated so no manual work is required.

#### **Reduce Time**

Searching of an account is very easy as well as updation of account balance is automated.

#### **Secured**

Applicated is secured using login page so only authorized person can view, update the account

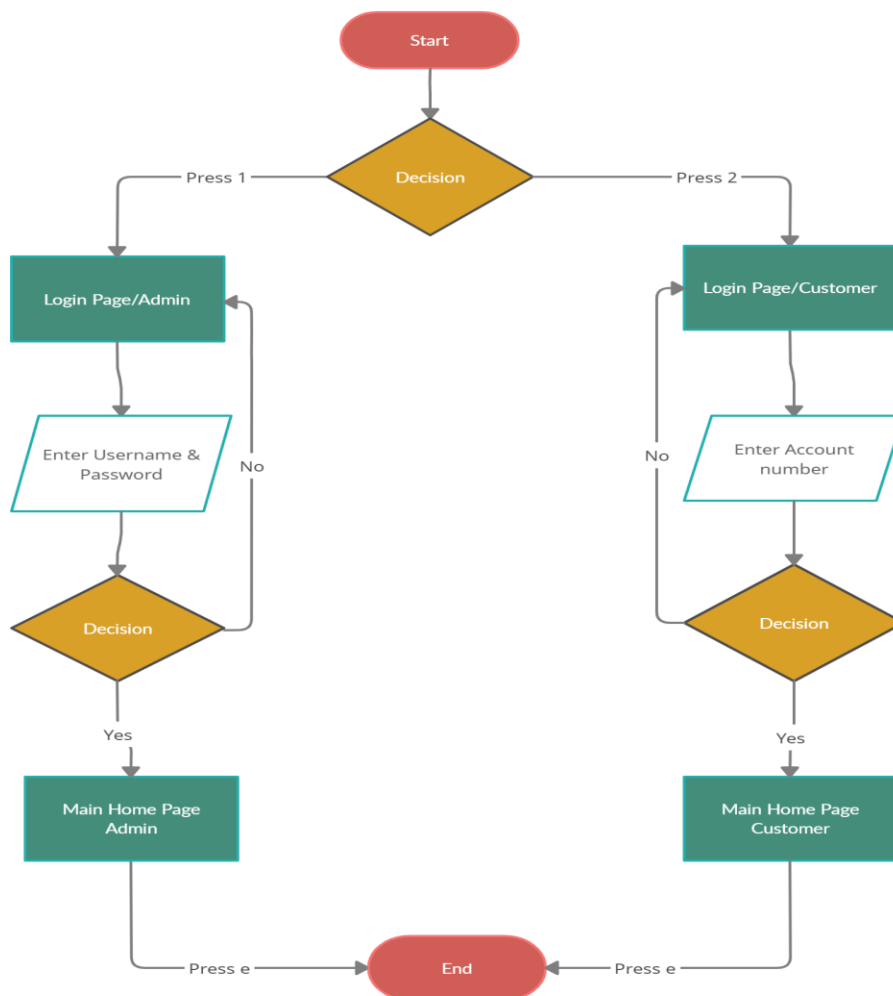
#### **organized**

Organization of file is automated no manual work required.

# Cost and Features with Time

Time	Feature	Cost
2000BC	The beginning of banking system	free
1397-1463	The modernization of bank	free
2001-2021	The emergence of Bank management system	\$5-\$10

## Defining Our System



Explanation:

Bank Management System have few inbuilt features like:

- Create new account
- Update information of existing account
- Removing existing account
- Check the detail of existing account
- List of all account
- Delete all account
- Open calculator
- Change login credentials
- Making a withdrawal

## SWOT Analysis

### **Strengths**

Easy withdrawals Removal of paper transaction Save time & Man power

### **Weaknesses**

Hardware is required Technically aware employee required

### **Opportunities**

User friendly Can be used by multiple banks More secure as compared to paper transactions

### **Threats**

Admin can misuse his power to manipulate the customer data Less visually appealing GUI

## 4W's and 1'H

- Who:

Small/Medium size bank can use this application

- What:

They can use it to manage the account of their customer and can provide a way for the customer to make a withdrawal

- When:

This problem emerges when the customer base of bank increased rapidly and multiple transactions take place simultaneously

- Where:

Bank Management System can be Run on both Os Linux and window as well as

- How:

It will help banks to keep their customer account updated and will also enable customer to make a withdrawal



## Detail requirements

- High Level Requirements:

ID	Description	category	Status
HLR1	Bank Management System	Technical	Developed

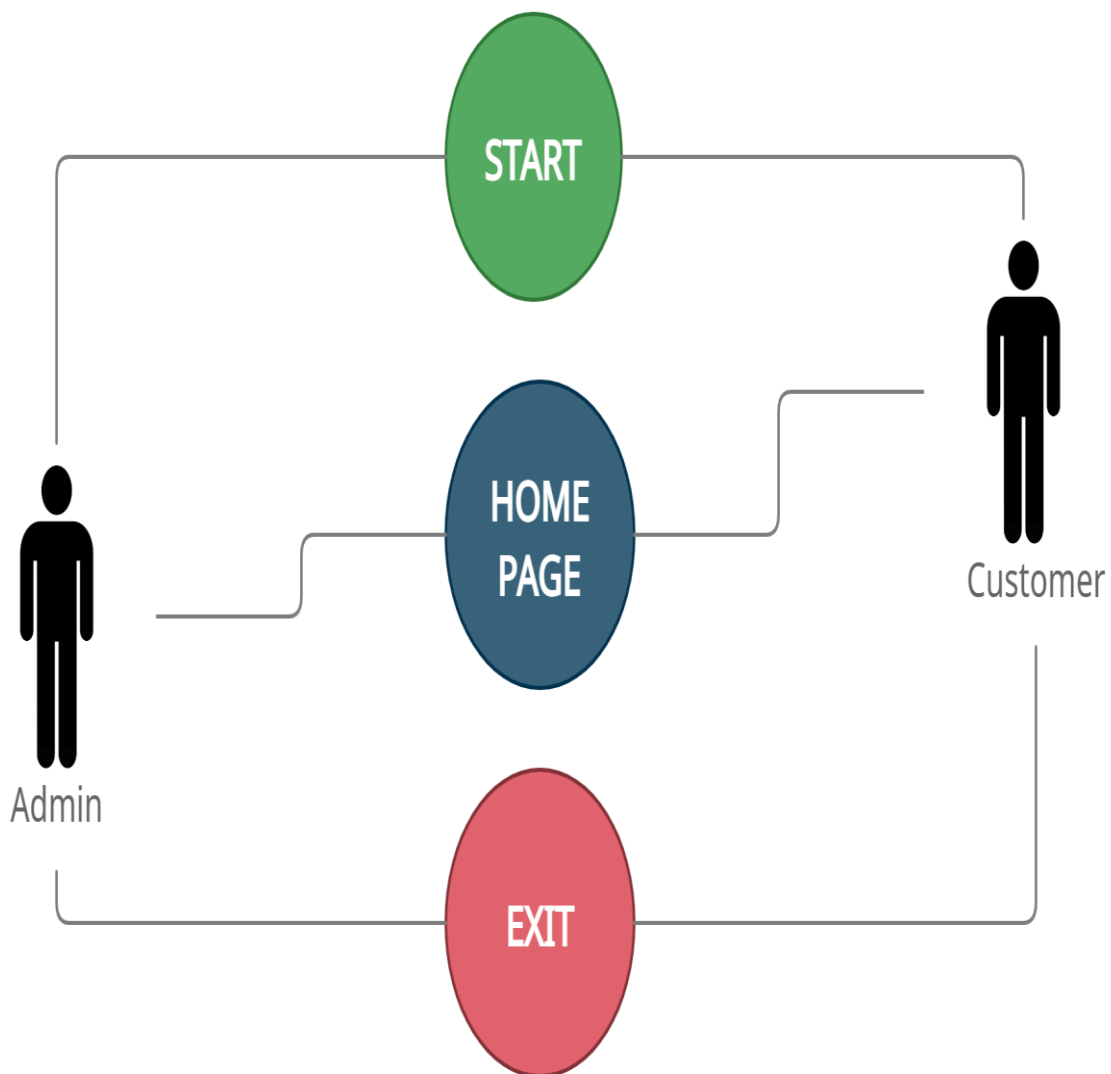
- Low Level Requirements:

ID	Description	Status
LLR1	Login System Admin	Developed
LLR2	Login System Customer	Developed
LLR3	Account Management System	Developed
LLR4	Withdrawal mechanism	Developed
LLR5	Calculator	Developed

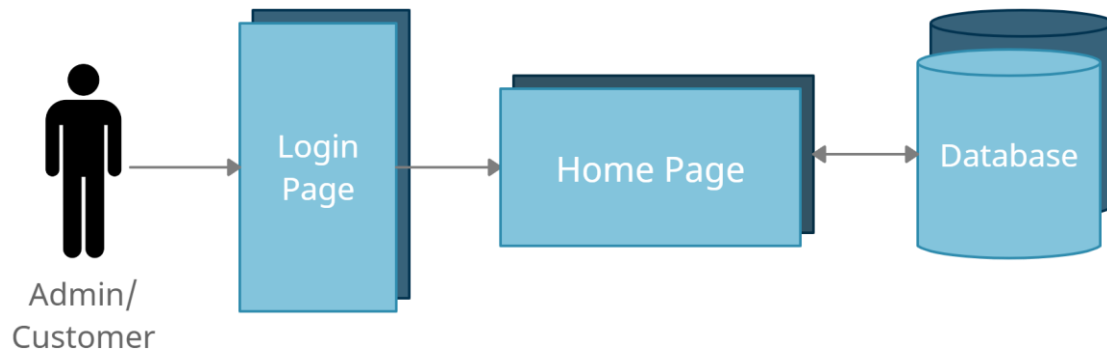
# ARCHITECTURE

- High Level Architecture

Behavioral Diagram



## Structural Diagram

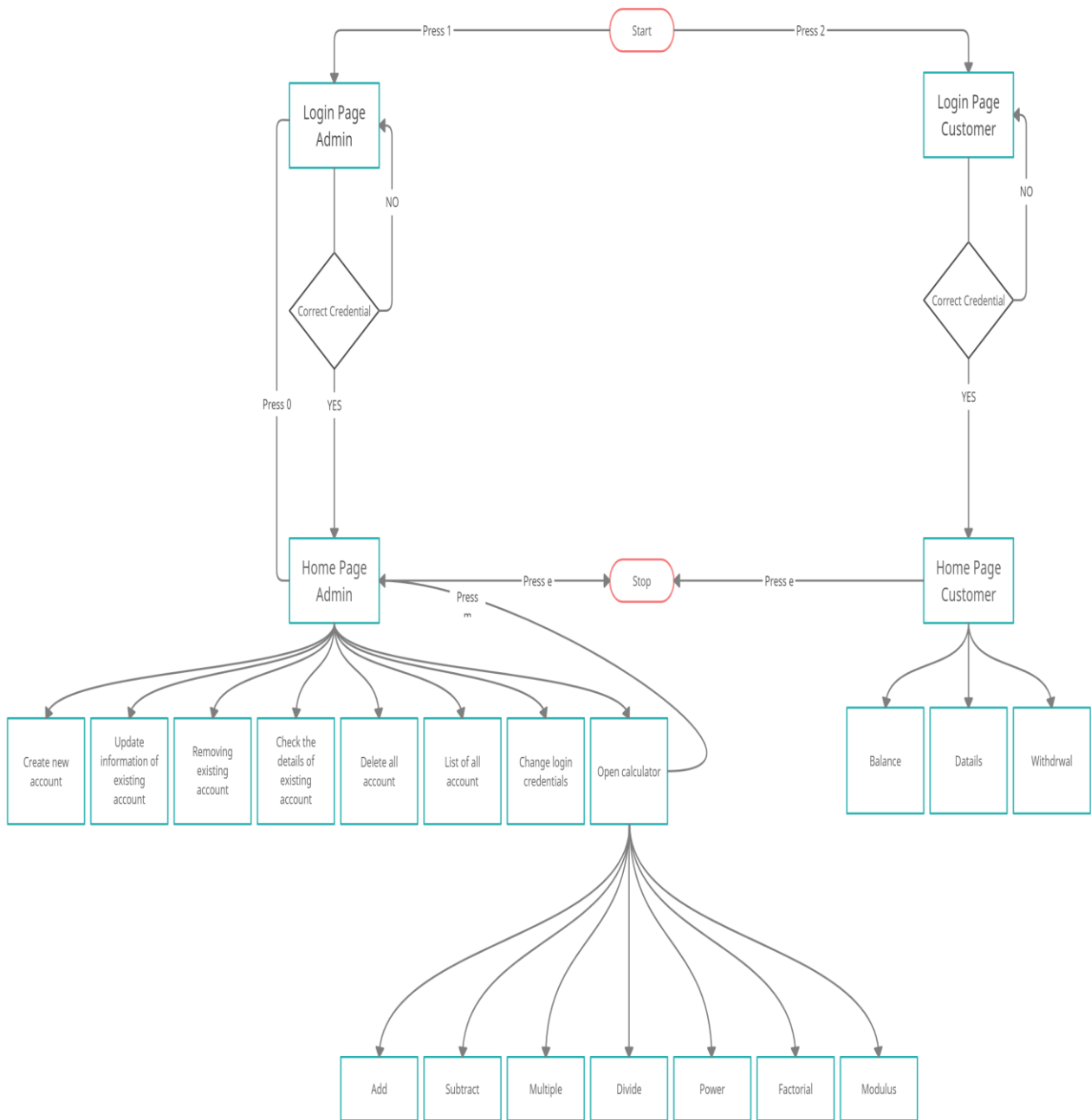


- Low Level Architecture

## Behavioral Diagram



Structural Diagram



## Implementation and Working

Below mentioned is some working of Bank management system

- Login page

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

                                     BANK MANAGEMENT SYSTEM

Home Page Banking Management System

Press 1 to enter into Admin Page
Press 2 to enter into Customer Page

Enter Your Choice:  █
```

If you press 1 and after putting login credential you will be redirected to admin server.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

                                     BANK MANAGEMENT SYSTEM

Customer Account Banking Management System

Press 1 to Create new account
Press 2 to Update information of existing account
Press 3 to Removing existing account
Press 4 to Check the detail of existing account
Press 5 to List of all account
Press 6 to delete all account
Press 7 to Open calculator
Press 8 to change login credentials
Press 9 to logout
Press 0 to exit application

Please enter your choice:  █
```

Now let's make a new account

```

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

                                     BANK MANAGEMENT SYSTEM

Create new account

Enter Account Holder Name:      abc
Enter Account Number:           4
Enter Available Amount:         1000

```

After filling the required fields your data will be saved in record of Bank.

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

To see your saved record, you can refer to file which is present in 7\_Other>data-set

And opening Account\_detail.dat file

```
7_Other > data-set > Account_Datail.dat
1 aranshu 1 1500
2 seema 2 5000
3 rohit 3 3000
4 abc 4 1000
5
```

Now let's Login as user and withdraw some money from account.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

                                BANK MANAGEMENT SYSTEM

Welcome to XYZ Bank

Press 1 to view your balance
Press 2 to make a withdrawl
Press 3 to view your details
Press 0 to exit application

Enter Your Choice:  █
```

Let us check the money amount in our account by pressing 1

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

Available Amount:      1000
```

Now let us withdraw money from account by pressing 2 and filling the amount.

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

BANK MANAGEMENT SYSTEM

Money Withdrawl

Enter withdrawl amount    200
```

You can check in your balance again and it will show updated amount and you can check Account\_Detail.dat file that your data is updated.

[illegible]



# Test Plan and Outputs

- High level test plan

Test ID	Description	Exp I/P	Exp O/P
HLT1	Check the calculator	Two number	One result
HLT2	Check the account operations	nil	nil
HLT3	Cehck the login credentials	Username & Password	True/False

- Low level test plan

Test ID	Description	Exp I/P	Exp O/P
LLR1	Addition	1,2	3
LLR2	Subtraction	5,1	4
LLR3	Multiplication	6,3	18
LLR4	Division	4,2	2
LLR5	Power	2,3	8
LLR6	Factorial	5	120
LLR7	Create account	data	Create new account
LLR8	Update account	data	Update selected data
LLR9	Delete account	data	Delete the account
LLR10	Withdrawal money	data	Update balance
LLR11	Login Admin	Username & password	true/false
LLR12	Login Customer	Account number	true/false

## Reference and Learning source:

1. [Geeksforgeeks](#)
2. [TutorialsPoint](#)
3. [Repository of Bharat Gopal](#)