

# CORE BANKING

---

Vanshika Garg

20449294

# INTRODUCTION

---

XYZ Bank provides banking services to users.

Once a person becomes a customer of the bank, he/she can perform basic banking operations such as :-

- Credit money

- Debit money

- Query transaction details

It is proposed to develop an automated system to support typical operations/services of a bank namely:-

- User management operations

- Money transactions



# Scope and Overview

---

- The scope of the Core Banking System will be to provide the functionality as described in Functional Requirements below.
- The system will be developed on a Linux box using CPP language and would provide a console-based user-interface.

# Functional Requirements

---

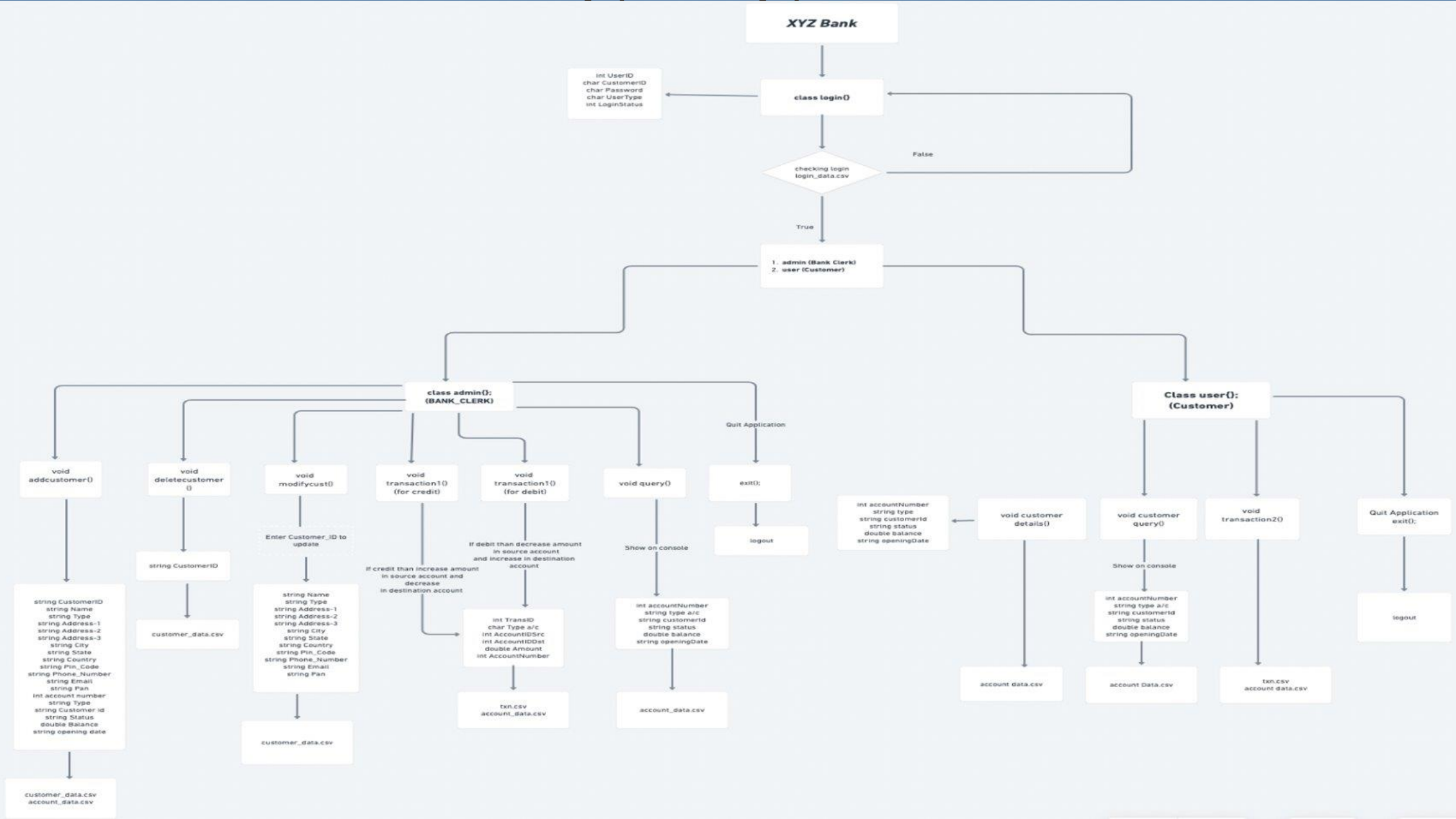
The functional requirement of the application is

1. Bank Staff (Clerk)
2. Customer

## Authentication and Authorization

All users logging into the system should be authenticated using a unique login-id and password.

# Designing Phase





## Bank Clerk(admin)

- 1) Add a customer into the system to create an account
- 2) Delete a customer from the system
- 3) Modify a customer's details
- 4) Credit money to customer account
- 5) Debit Money from the customer account
- 6) Query/Report on customer account & transactions
- 7) Quit Application

## Customer

- 1) View Customer Details
- 2) Transfer money from one account to another
- 3) Query/Report on the account & transactions
- 4) Quit Application

# Division of code

---

It consists of 3 parts:

- ❑ CPP Files
- ❑ CSV Files
- ❑ HEADER Files

# CPP Files

- 
- **Name of file - corebanking.cpp**

Core banking is the main source file which is basically skeleton of project runs in a CPP extension file. It contains login header file for implementing further.



# CSV Files

---

➤ login\_details.csv

- This CSV file is for all the data of the admin and user which were used to login into the system.

➤ customer\_details.csv

- This CSV file is for all the details of the customer which were added at the time of creating an account.

➤ account\_data.csv

- This CSV file is for all the account data which were added at the time of creating an account or after the transaction.

➤ Txn.csv

- This CSV file is for all the details of the transaction with their respective id's.

# Header Files

The header file names are:-

---

- login.h
- main\_admin.h
- addcustomer.h
- modifycust.h
- transaction\_admin.h
- addtxnfile\_admin.h
- txnidgenerate\_admin.h
- deletcustomer.h
- query.h
- main\_user.h
- customerdetails.h
- customerquery.h
- transaction\_user.h
- addtxnfile\_user.h
- txnidgenerate\_user.h

# Header Files

---

- login.h

This login.h header file contains an admin.h and user.h headers files which called after taking all inputs that is customer id and password.

- main\_admin.h

This admin.h header file contains addcustomer.h , modifycust.h , transaction\_admin.h(credit + debit),deletcustomer.h , query.h and exit. Basically, admin takes all information's of customer like add, delete, transfer money, query/report and quit application.

- addcustomer.h

This addcustomer.h header file contains adding a new customer all details like Name, Type, Address1 , Address2, Address3, City, State, Country, Pin code, Phone number, Email, PAN , Balance, type, status, Opening Date, customeriid, password, utype, junk.



- `modifycust.h`

This `modifycust.h` header file contains modifying customer details like Name, Type, Address1 , Address2, Address3, City, State, Country, Pin code, Phone number, Email, PAN , Balance, type, status, Opening Date, customerid, password, utype, junk by using user-id .

- `transaction_admin.h`

This `transaction_admin.h` header file contains select credit or debit card and enter source and destination account number having `addtxnfile_admin.h` .

- `addtxnfile_admin.h`

This `addtxnfile_admin.h` header file contains used to create a transaction id after the completion of payment.

- `txnidgenerate_admin.h`

This `txnidgenerate_admin.h` header file contains used to transfer all the data of the transaction to their respective `txn.csv` file.

- `deletcustomer.h`

This `deletcustomer.h` header file contains deleting the customer details by using their user-id.

- query.h

This query.h header file contains used to show all the list of the customers which were added in the bank with their information.

- main\_user.h

This main\_user.h header file contains the user in this all the tasks which were performed by the user are called to perform.

- customerdetails.h

This header file is used to view the customer details individually by entering their personal user id.

- customerquery.h

This customerquery.h header file is used for transaction purposes like credit or debit money from one account to another account.

- transaction\_user.h

This transaction\_user.h header file is used to create a transaction id after the completion of payment.

- addtxnfile\_user.h

This addtxnfile\_user.h header file is used to transfer all the data of the transaction to their respective csv files.

- txnidgenerate\_user.h

This file is used to show the data of the customer account which was added in the bank with their details.



---

**THANK YOU**