

DOCUMENTATION

CORE BANKING

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

The scope of the Core Banking System will be to provide the functionality as described in Functional Requirements are Bank Staff (Clerk) and Customer.

OVERVIEW

The system will be developed on a Linux box using CPP language and would provide a console-based user-interface.

Functional Requirement

The functional requirements of the application are: -

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.

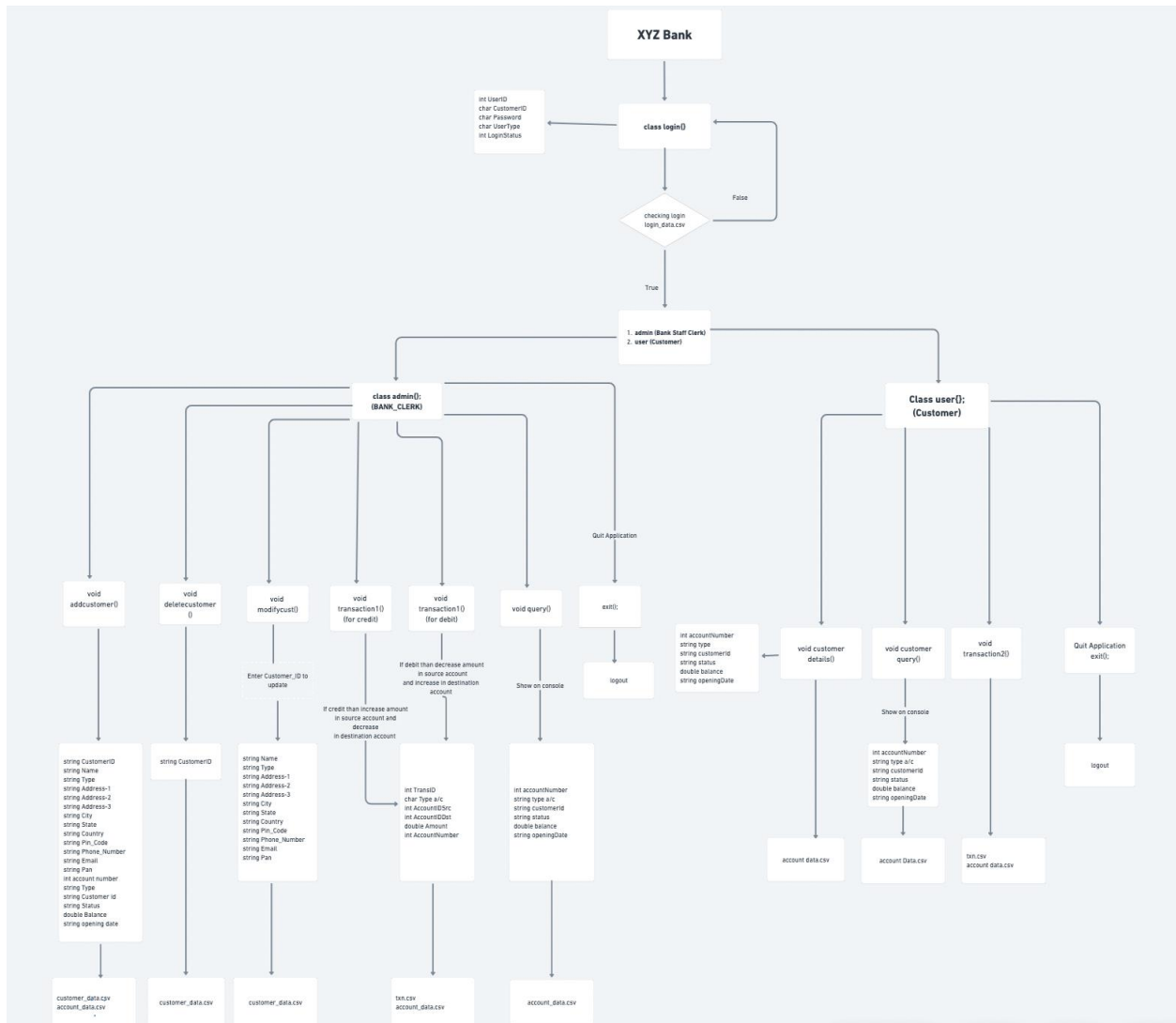
Bank Clerk(admin)

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

Flow Chart of Project



Core Banking project contains three parts such as :-

1) CPP File

2) Headers File

3) CSV Files

1) CPP File

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.

2) Headers File

- login.h

This login.h header file which 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),deletecustomer.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, customeriid, 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.

- deletecustomer.h

This deletecustomer.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.

3) 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.

References

1. <https://www.geeksforgeeks.org/csv-file-management-using-c/>
2. <https://java2blog.com/read-csv-file-in-cpp/>
3. <https://www.geeksforgeeks.org/cpp-program-print-current-day-date-time/>