2020
The University of Lahore

Bank Management System

C++ Project

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Project Participants



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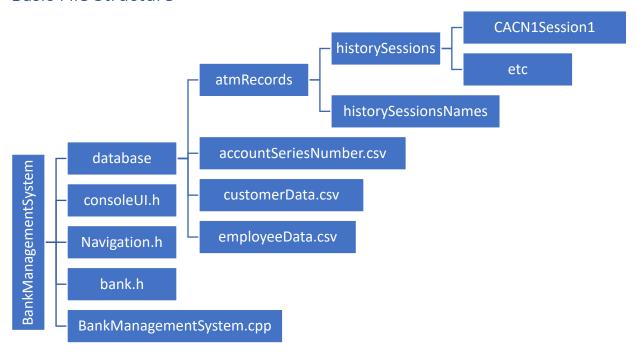
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Bank Management System

Basic File Structure



Brief Overview of Project Files

consoleUI.h

This header file includes following Global Functions:

void readAccSeries()

Reads four values from "accountSeriesNumber.csv" file as string and converts, and store these values as an integer in num, num1, num2, num3 respectively.

- o "num" for customer account serial number (1,2, 3,...)
- o "num1" for employee account serial number (1,2,3,...)
- o "num2" for manager account serial number (1,2,3,...)
- "num3" for ATM history session serial number (1,2,3,...)
- void writeAccSeries()

Write above mentioned four values separated by commas in "accountSeriesNumber.csv" fil.

string getAccountUserName()

Takes string input of Account User Name from the user and returns.

- int getAccountPassword()
 - Takes integer input of Password from the user and returns.
- bool getAccountType()
 - Takes Boolean input of Account Type from the user and returns.
- string getAccountNumber()
 - Takes string input of Account Number from the user and returns.

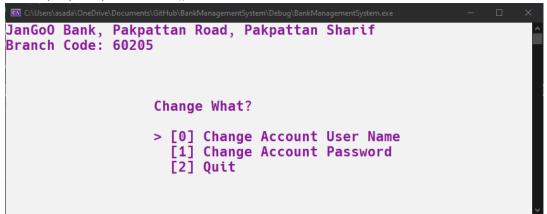
- string generateCustomerAccountNumber()
 Generates Customer Account Number as string in the form of "CACN#" where "CACN" is fix while "#" is a variable number.
- > string generateEmployeeAccountNumber()
 Generates Employee Account Number as string in the form of "CACN#" where
 "EACN" is fix while "#" is a variable number.
- int getAmount()

Takes integer input of Amount from user and returns.

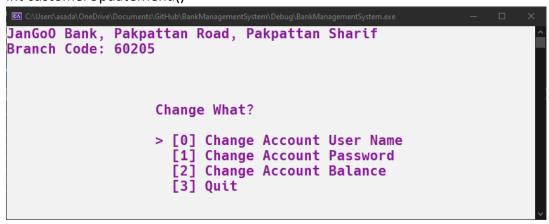
char getFirstLetter()
 Takes character input of Single Letter form user and returns.

Navigation.h

int employeeUpdateMenu()

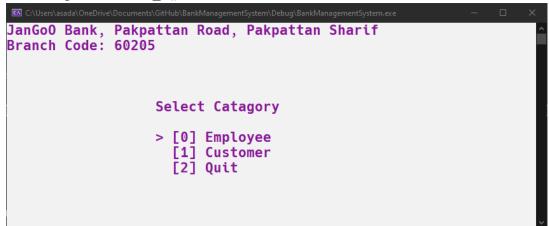


int customerUpdateMenu()

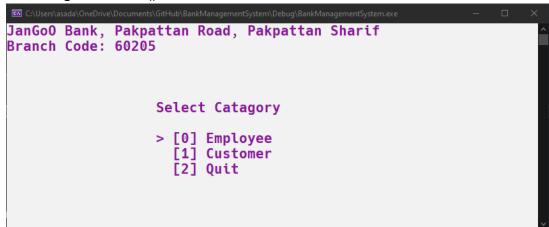


- int managerMiniMenu_0()
- int managerMiniMenu_1()
- int managerMiniMenu 2()
- int managerMiniMenu 3()
- ➤ int managerMiniMenu 4()

int managerMiniMenu_5()



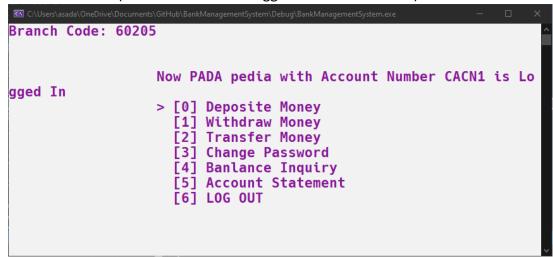
int managerSubMenu()



int bankSubMenu()



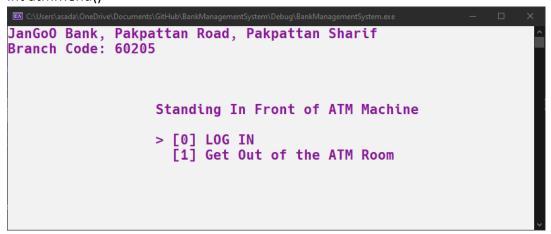
int atmSubMenu(CustomerAccount* loggedInAccountNumber)



int bankMenu()



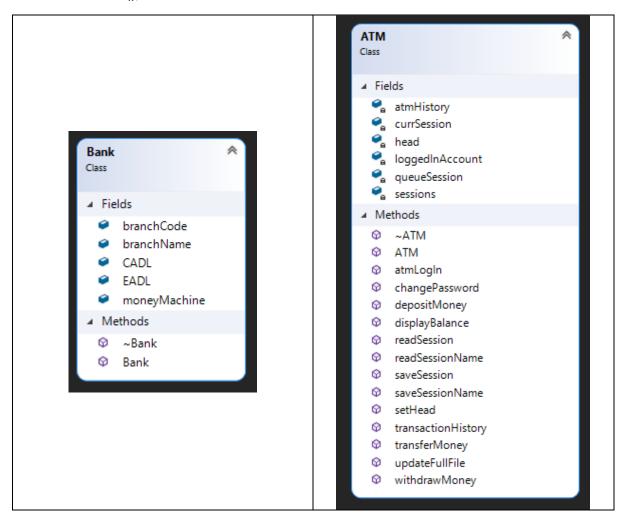
int atmMenu()

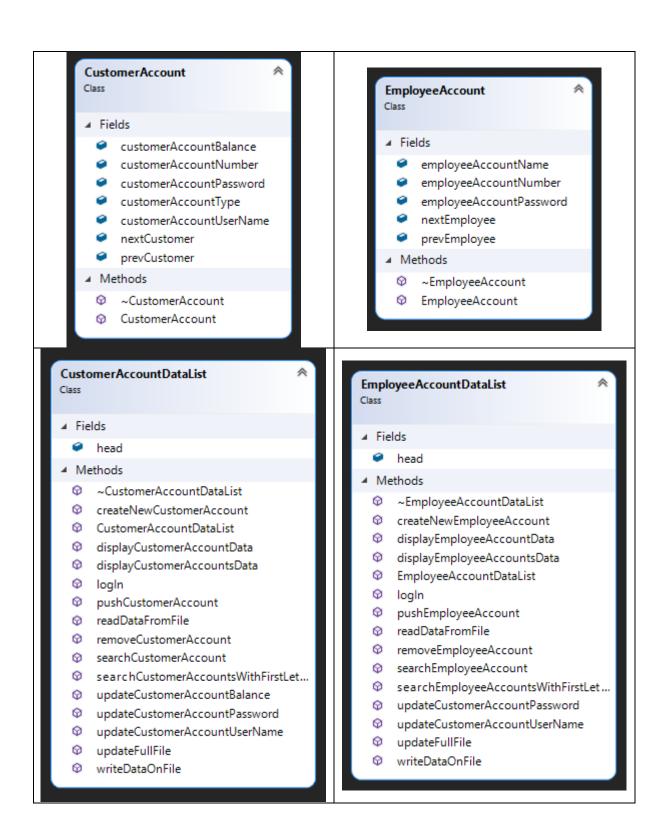


int entryPoint()

Bank.h

- class CustomerAccount {};
- class CustomerAccountDataList{};
- class EmployeeAccount{};
- class EmployeeAccountDataList{};
- class ATM{};
- class Bank();





BankManagementSystem.cpp

This file include build-in C++ libraries required in the project. And it also includes above mentioned header files.

The main() function simply calls the entryPoint() function written in Navigation.h file.