INTERNSHIP PROJECT C++: BANKING RECORD SYSTEM

DESCRIPTION OF THE PROJECT:

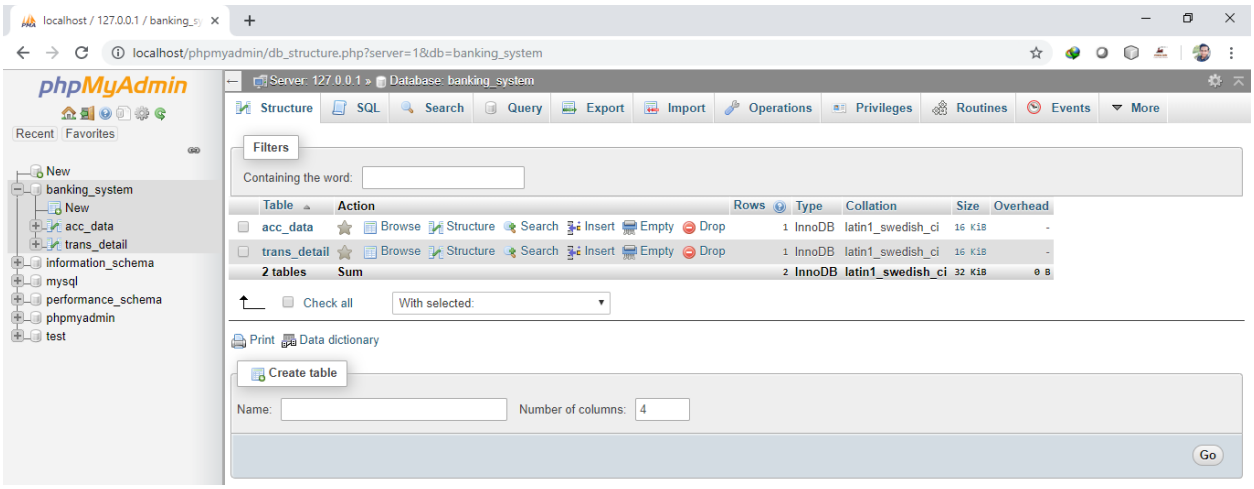
1. **Add Record:** User inputs information such as account number, first name, last name and money to be entered.
2. **Show Balance:** User inputs information such as account number, first name, last name, and output is his/her account balance
3. **Withdraw Record:** User inputs information such as account number, first name, last name and money to be withdrawn.
4. **Search a particular transaction number** and output is user's account information with the date & time of the transaction
5. Use **MySql For Database Connections.**

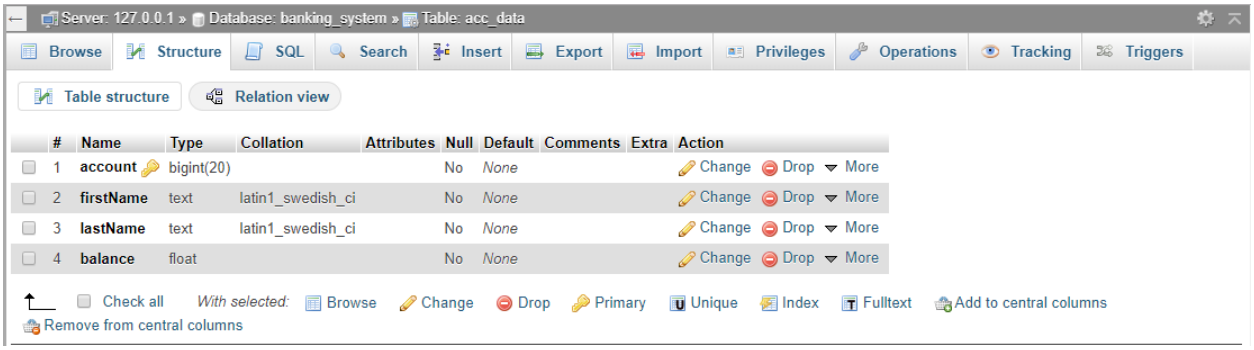
SOFTWARE USED

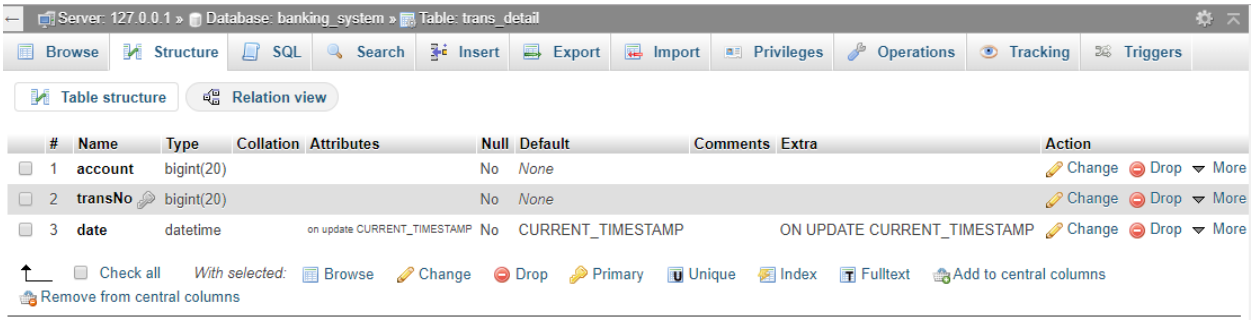
- Codeblocks 16.0.1 (minGW compiler)
- Xampp server
- Dev CPP

XAMPP LOCAL SERVER AND DATABASE DESCRIPTION

It has a database name "banking_system" that contain two tables viz. acc_data and trans_det. Various decription of the database is in following images.







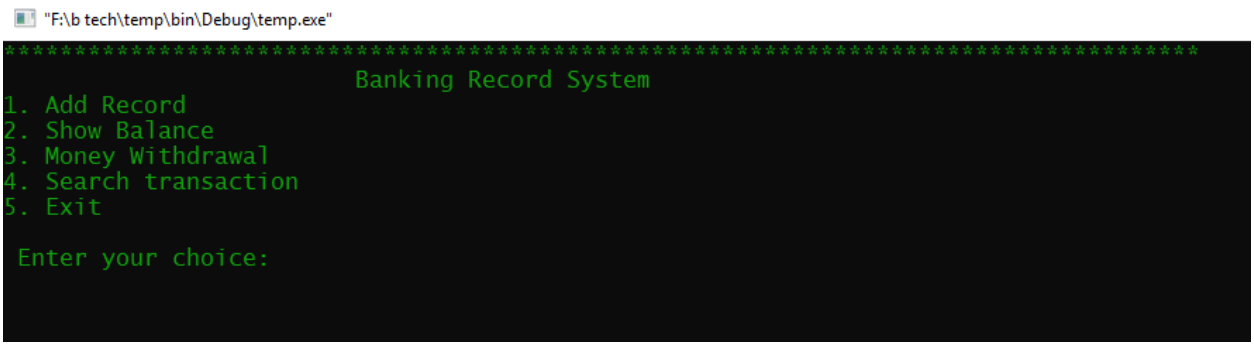
CODE EXPLANATION

The code has four functions to accomplish given four tasks. These functions are-

1. void addRecord();
2. void showBalance();
3. void withdrawRecord();
4. void searchTransaction();

MAIN FUNCTION:

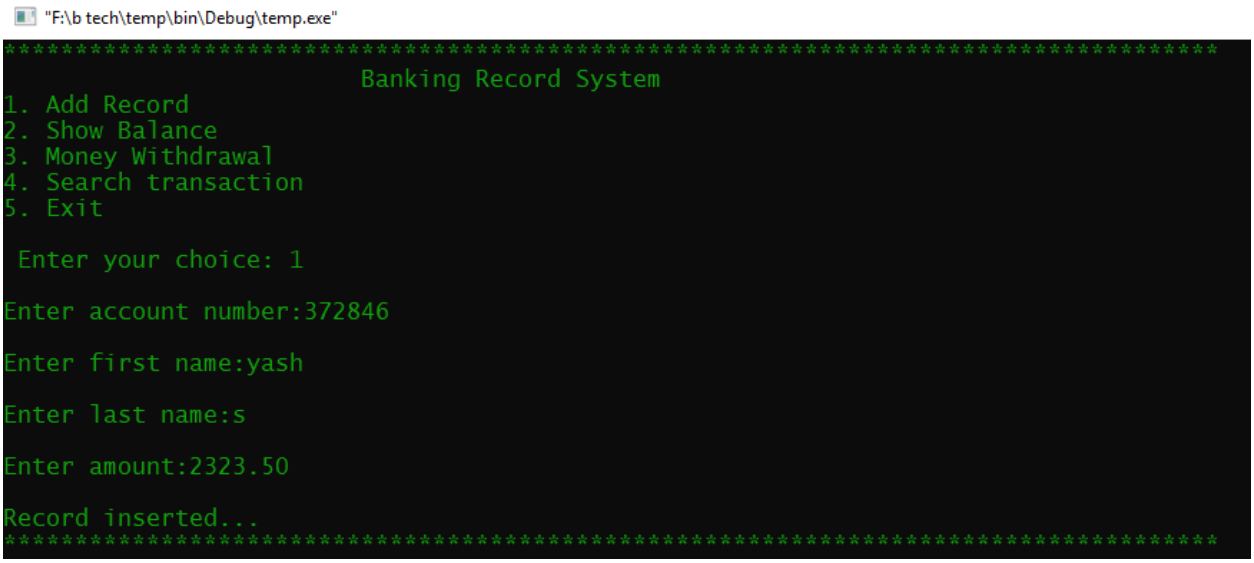
Main function of the program uses switch case to ask user to enter any number from the given choices. According to the input of the user, any of the four functions listed above are called and they work accordingly, the working of these functions are explained below. This also uses labels that are responsible for giving choices again to the user after completing one task. Also the user has choice as "EXIT" from the program that directly takes the user out of the program and close it.



WORKING OF DIFFERENT FUNCTIONS

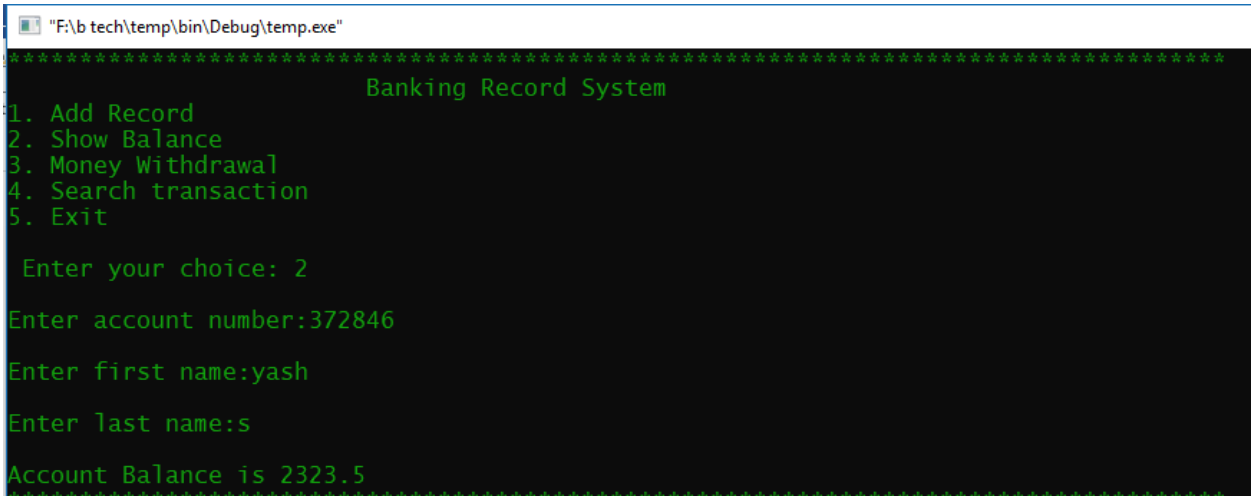
1. **ADD RECORD**

   This option calls addRecord(); which first creates a connection variable ‘conn’. It makes a connection between the program and the database by the help of mysql_real_connect(), if the connection is established the user is asked to input the account details and based on this input an INSERT query is executed to insert data in table acc_data in the database banking_ststem. If the connection is failed to established “Not Connected” is printed on the screen.



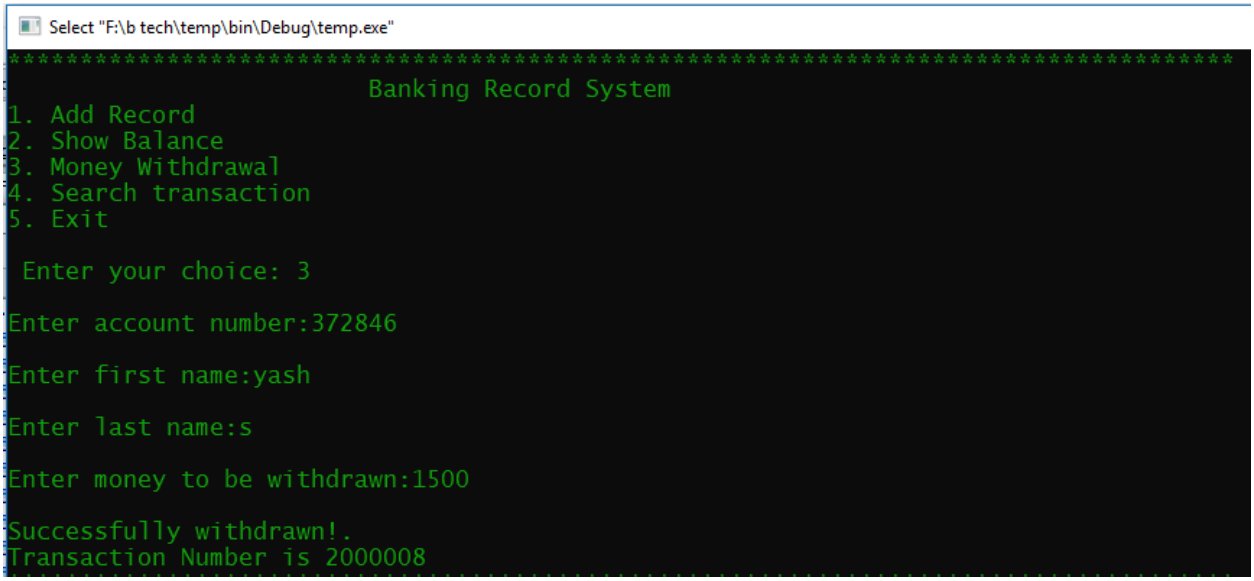
2. **SHOW BALANCE**

   This option calls showBalance(); which first creates a connection variable ‘conn’. It makes a connection between the program and the database by the help of mysql_real_connect(), if the connection is established the user is asked to input account details. Based on the details given by the user a SELECT query is executed which compares first name, last name and account details to the data present in table acc_data of the database, if these are matched with any record then the available balance of the account is displayed on the screen.



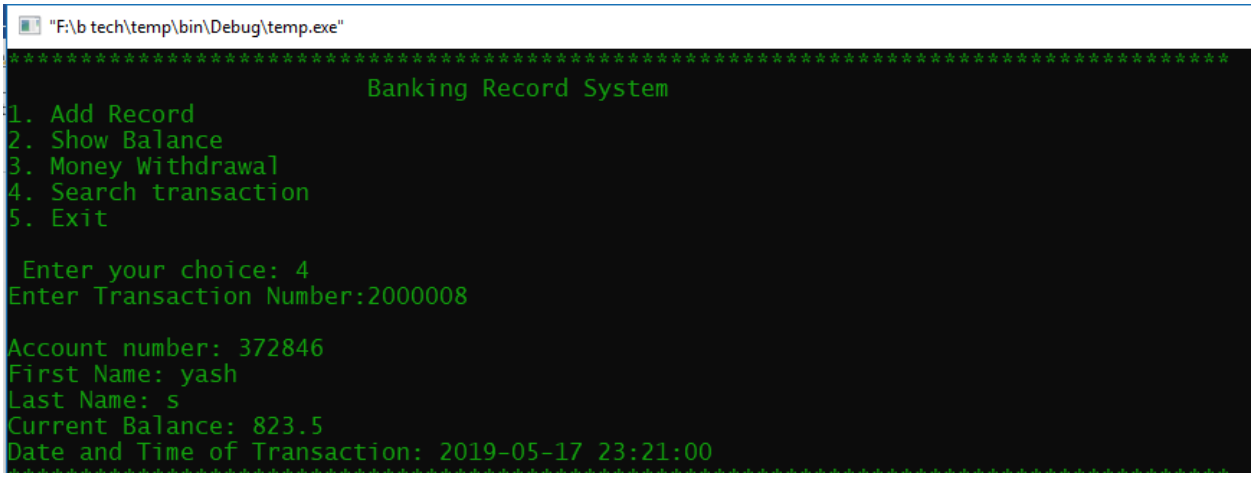
3. MONEY WITHDRAWL

This option calls showBalance(); which first creates a connection variable 'conn'. It makes a connection between the program and the database by the help of mysql_real_connect(), if the connection is established the user is asked to input account details and the amount to withdraw. Based on the details an UPDATE query is executed which subtract the balance from the current amount and at the same time a random number is generated with the help of "rand" function. This random function now acts as a transaction number for the current transaction that the user has presently done. This transaction number is stored in another table trans_detail in the same database banking_system using INSERT query along with the account number and the current date and time of the server for further information. After all this queries and processing a success message along with that random number is printed on the screen for the user.



4. **SEARCH TRANSACTION**

   This option calls showBalance(); which first creates a connection variable ‘conn’. It makes a connection between the program and the database by the help of mysql_real_connect(), if the connection is established the user is asked to input transaction number only. Now a SELECT statement is executed along with SQL JOIN. This query is executed to fetch account details of the customer who has done the transaction along with the date and time of the particular transaction. But these all data are stored in two different tables which are linked to each other by the account number, therefore JOIN is used. These details are printed on the screen if these are found in the database.



5. **EXIT**

   This choice uses exit function to get out of the main function and shut the program.

REFERENCE

- Eckovation support team
- www.youtube.com

Made By: *Yash*

Email: *yash754311@gmail.com*

Mob: *9125041358*