

EVOLVE BANK
WE BELONG TO YOU

The **GAP** group members and founders:

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The **GAP** group chose the banking system as part of the PGM216D project, because it is a real-life, day-to-day system that is easily accessible to people around the world. The banking system is highly dynamic and capable of responding to most possible requests and summaries as possible.

Before starting with the project, we followed the following steps:

1. Identifying the requirements of the banking system.

We defined the functionality and the features of the banking system. The system should be able to perform tasks such as account creation, deposits, withdrawals, transfer of funds, and the balance enquiries.

2. Designing the user interface

Creating a user-friendly interface that allows to perform tasks with ease. The interface should display the necessary information such as account balances, transaction history, account details.

3. Planning the system architecture

We decide on the architecture of the banking system. We used object-orientated programming (OOP) principles to design the system architecture.

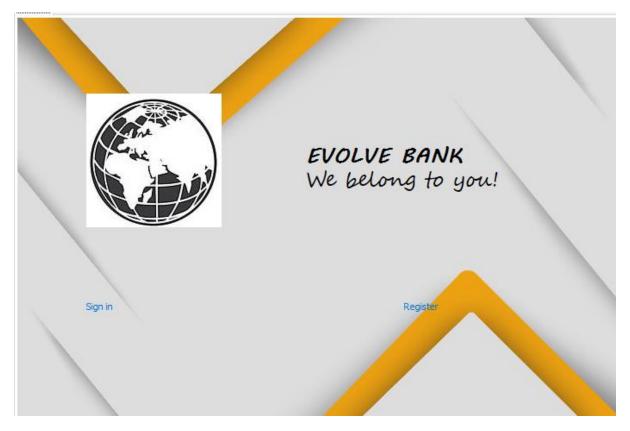
4. Implementing the code

We started writing the code for the banking system using Embarcadero C++ to implement the functionality of the system.

5. Testing the system

We as the **GAP** group tested the banking system to ensure that it works as expected. This included covering scenarios such as error handling and data validation.

Main Tab



The Main page is as shown in the image above, and in blue, are the 'Sign in' and 'Register' labels.

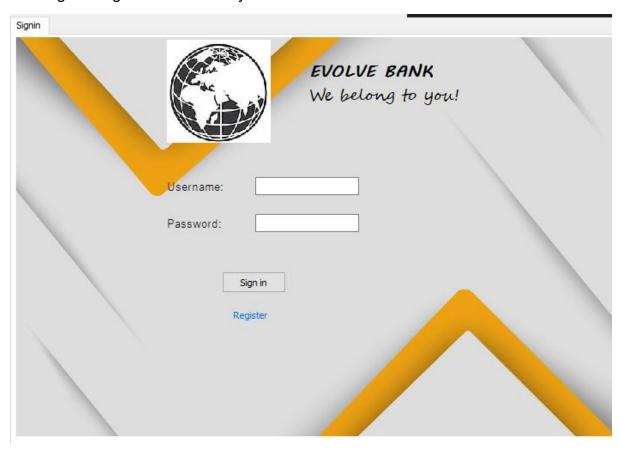
The 'sign in' is suitable for the user who already has an account with EVOLVE BANK and clicking the 'sign in' means that you have an account with EVOLVE BANK.



The 'Register' is suitable for first-time users willing to create an account with EVOLVE BANK. Clicking on the 'register' means you are willing to register/open an account with EVOLVE BANK.



Sign InClicking the 'sign in' means that you have an account with EVOLVE BANK.



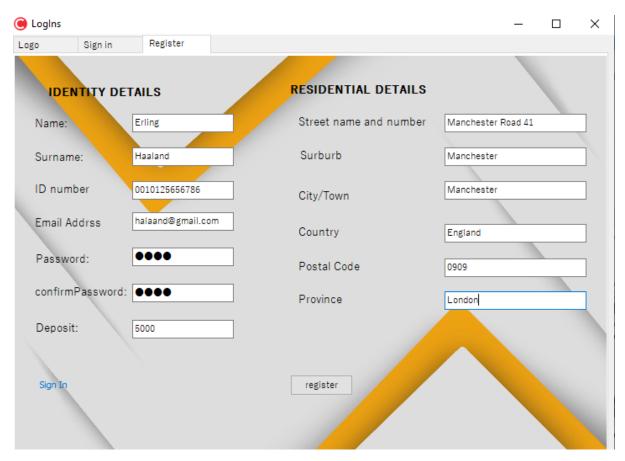
The username will be represented by your unique account number, and the password is the password you created when registering with EVOLVE BANK.

After successfully signing in a home tab will appear with a welcoming sign on it aligned at the top centre of the tab or page.

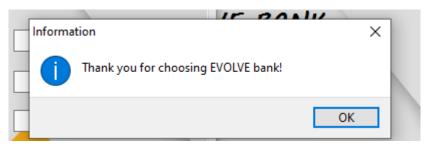


Register

Clicking on the 'register' means you are willing to register/open an account with EVOLVE BANK.

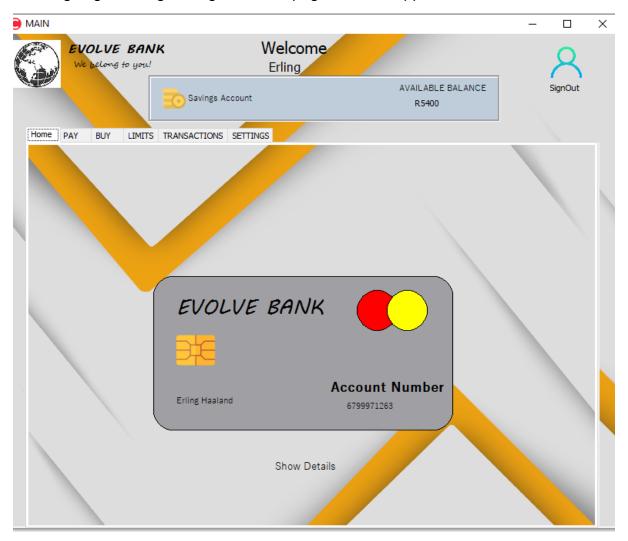


After successfully registering, a message appears on the screen to confirm your registration and you will now have an EVOLVE account, unique account number and password. This then allows the user to sign in instead of registering, the next time he/she wants to use the app.



Home Tab

After signing in or registering the home page will then appear as follows:



The card will have features such as: card number, security code, account number, name of account, and name of the user.

Right clicking the card that appears on the home page will flip the card.



The 'Show details' will allow the user to view their card number and security code without the asterix as follows:





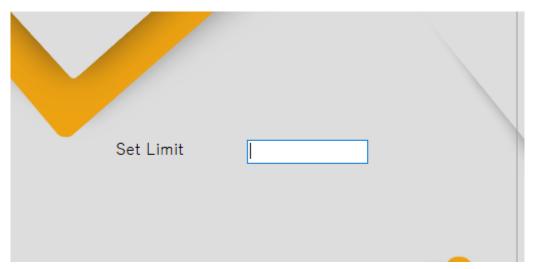
The home page welcomes the user and details his account details, card details such as account number and card number.

The home page furher provides information about your available balance and the type or name of the account you are using.

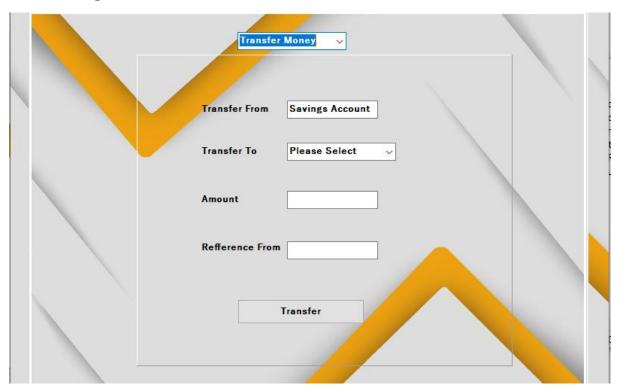


Set Limits

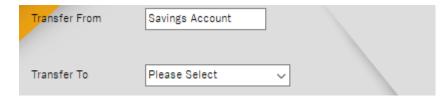
Before transferring funds, the user will first need to set the limits of the money that is transferred or withdrawn from their account, this will help improve efficiency in banking.



Transferring funds

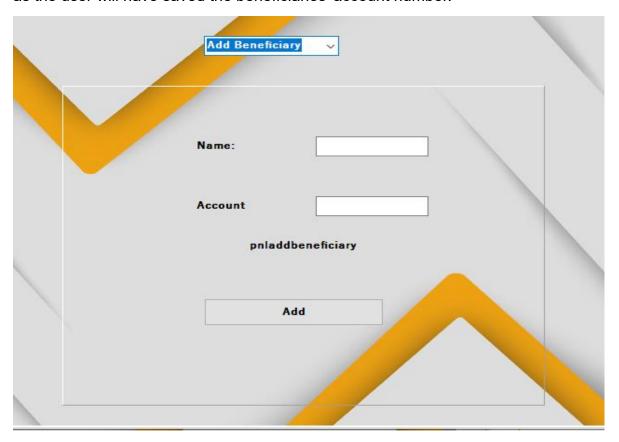


The 'PAY' page will allow the user to be able to transfer funds to another account or to another user.



Add Beneficiary

The 'PAY' page also has an alternative option to add a beneficiary, known as 'Add Beneficiary'. This will add the account as a beneficiary, which will make it easier for the user to transfer funds the next time he/she want to transfer funds to a beneficiary as the user will have saved the beneficiaries' account number.



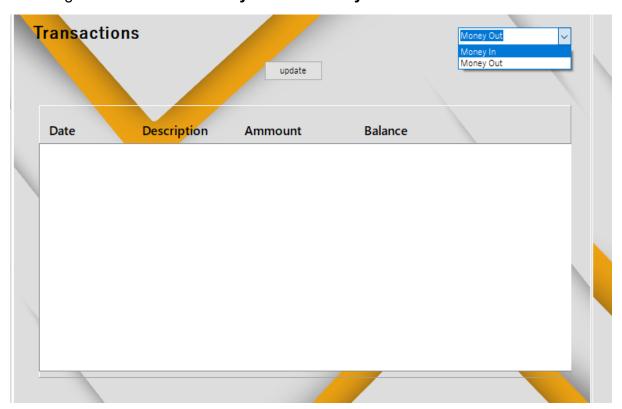
Transaction History

Updating or viewing transaction history is an important part in any banking system, this allows the user to track their money on the account.

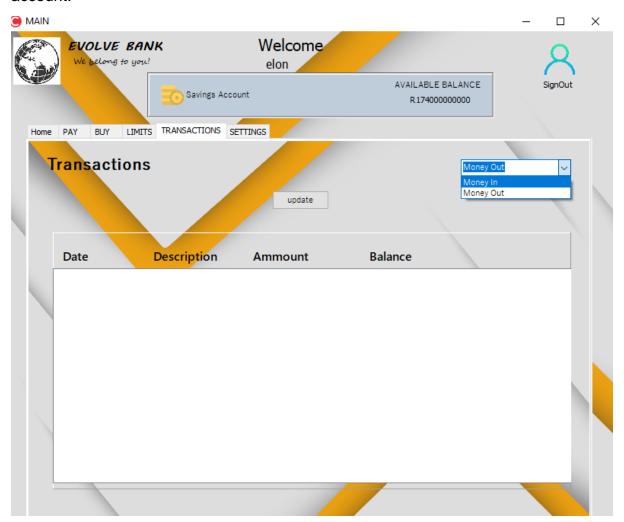
This feature allows the user to keep track of all the funds or activities on the account.



The 'TRANSACTION' page allows the user to track their money more efficiently by selecting whether to view 'Money Out' or 'Money In'.



- 'Money In' refers to the history of which funds were transferred or paid into the account.
- **'Money Out'** refers to the history in which fund were transferred or paid into another account.



Settings

'Settings' will display your personal information (Identity details) including your residential information (Residential details).



Sign out!

After completing all activities on the banking app, the user will always look for the 'sign out' option. The top right corner is where all *the magic happens*, the user will either close the tab (the cross located on the top right corner) or double click the 'SignOut' icon (also located in the *magical* top right corner).



References

Freepik Company S.L. - www.freepik.com

PGM216D content

Flaticon – flaticon.com

 $CppForSchool.com - \underline{www.cppforschool.com}$