

## Account

This Account class represents the general bank account. It has the feature that total deposit for a bank account in three different currency. And also, it has function of making deposit which is general function for every account. This class would be used to create other different bank account with more functions in the future.

### Checking(inherit from class Account)

This Checking class is inherited from class Account, which has feature of total deposit and making deposit. Moreover, this class has two more functions that allow customer to withdraw money and transfer money from checking account.

### Saving(inherit from class Account)

This Saving class is inherited from class Account, inheriting total deposit and making deposit function from the parent class. Two more functions are added to this class, transfer money to checking account and getting daily interest if the deposit is larger in this account. Since Checking account and Saving account are both bank account, but different in some functions. This design would make these two class more distinguishable and separate the functions for future using.

## Interface

This is implemented for a general Interface class. This class contain some general function that need for build an interface, like adding button, adding window, adding text field, and adding radio button. Also, it has the main onboarding interface for the bank system. In the future, the basic functions could be used to build any other interface.

### CustomerInterface(inherit from class Interface)

This CustomerInterface class is inherited from class Interface, which inherit all the basic functions for building an interface. It also add more functions that need for building the windows after press the "Customer" button. This class enable user could use the interface to choose actions and make actions with their account, like making deposit, withdrawing, transferring, checking balance and loan. For future using, it could add more function help bank customer to manage their account.

### ManagerInterface(inherit from class Interface)

This ManagerInterface class is inherited from class Interface, which has some functions that different from the class CustomerInterface class. This design is because of different position of a manager and a customer. After pressing the manager button, this class would help manager to check the customers' status and daily report.

## Customer

This class is implemented for the whole customers for the bank, which contains the customer list and account list. Also, it has some functions to help customers to create account and check if it is successfully log in. This class help the bank to manage the customers as a whole. For future using, it can be used for any other class that need create account and login.

## Manager

This class is used for implementing the functions for manager. This class have functions of getting daily report and storing income from every transaction. Any new features for the manager could add to this class for future using.

## User

This User class represents a single customer for the bank. It acts like a real customers, containing his/her checking account, saving account, and loan status. Also, it has some functions to support these features.

## Instructions of using the GUI

"Customer" and "Manager" buttons are using to choosing whether you are a customer or a manager.

"Next Day" button is used to simulate day changing in real life, which could help the interest functions work.

Press upper closed button, it would go back to the previous window.