CS591 P1 Program(Bank ATM) Read Me

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Playing The Game:

The entrance is Main.java

Just use *$javac Main.java* to compile it and run *$java Main*.

Hope you enjoy our game!

Initialization:

Reminder: Use back button to back to the previous interface and close current interface.

The bank will charge(5 dollars) for withdraw, transaction, loan(I set the interest 10%), open accounts and close accounts. The bank will only pay interest on savings accounts that have high balances (I set 50).
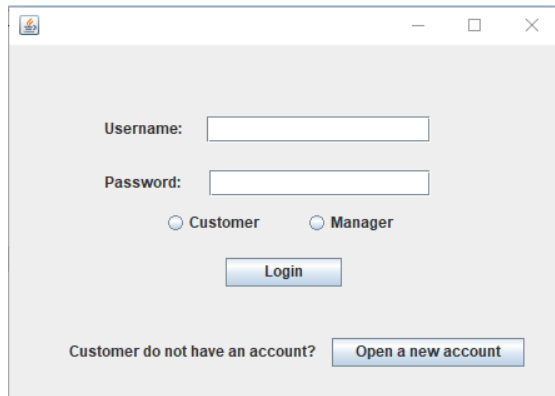
Initialized customers:

Name	Bob	Mary
Phone	1234567892	7894561230
Username	bob	ma
Password	00000	00000
Checking account number	000000000001	000000000002
Saving account number	000000000002	000000000003
PIN number(same for checking and saving)	123456	123456
Checking balance	Dollar:100 RMB:0 Euro:0	Dollar: 0 RMB:0 Euro:0
Saving balance	Dollar:100 RMB:0 Euro:0	Dollar:0 RMB:0 Euro:0
Transaction	No transactions	No transactions
Loan	100 dollars	No loans

Initialized managers:

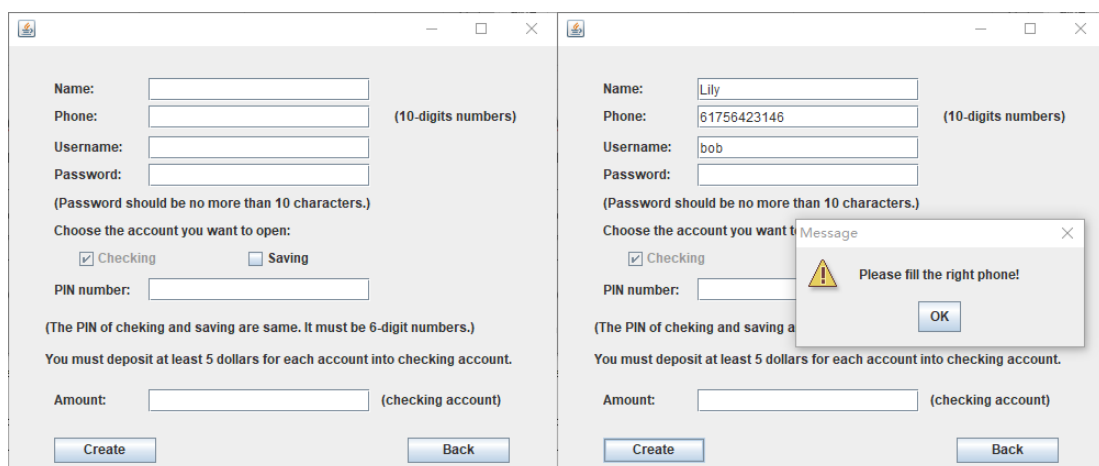| Name	Lisa
Phone	1452368959
Username	lisa
Password	11111

Sample Output:

At the beginning of the program, the interface of login will show. You can use username and password to login.
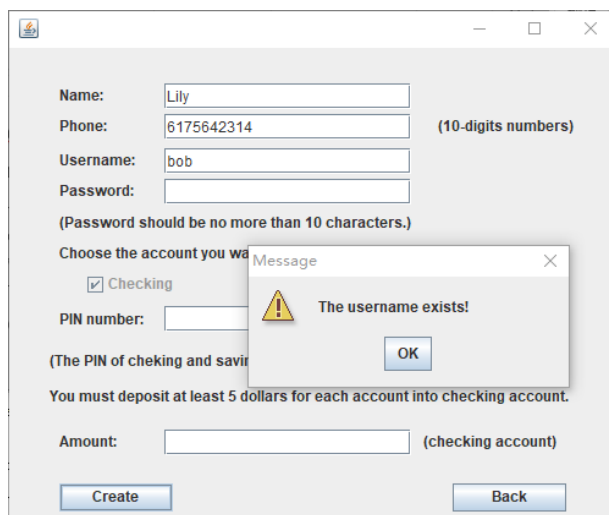
If there is a new customer need to open a new account, then click the button "open a new account", then the new customer can fill the form to open a new account. The password is used to login and the PIN number is used to do the operations like deposit and withdraw.

When you need to open a new account, then the checking account must be opened, because the bank charge for opening new accounts and it only charge from the checking account. There will have reminders if you do not fill the form correctly.

Every customer should have their own specific username, so when the username you fill has existed, it will remind you to change.

Because the bank will charge from the checking account, when you want to open a new account, he must deposit dollars when open the account then the bank can get its charge. And the least amount of deposit is decided by the accounts you need to open (both or only checking), the bank will charge 5 dollars for each account.

After the customer open new account, the information of your account number will be shown to you.

Customer

After remembering the account number, you can click the button to go back to login interface to login and use the username and password to enter the system.

After you enter the system, you have 7 operations to choose.
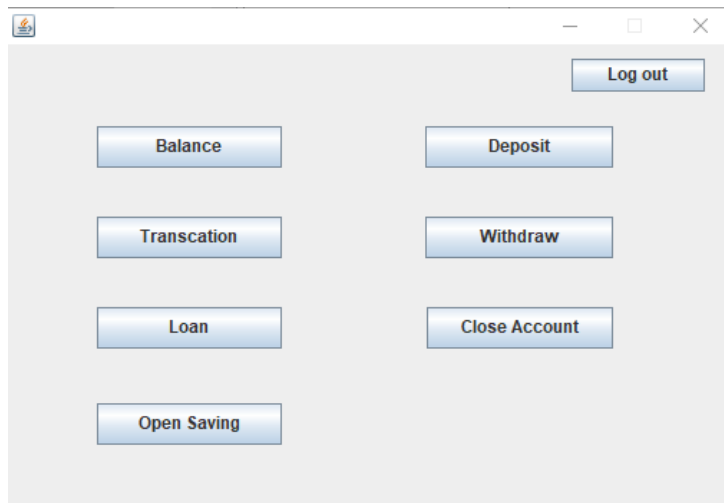
You can see your balance, you will not see the saving account if you do not have one. Three currency will be contained here, Dollar, RMB and Euro. Here the customer deposit 100 dollars, after the bank charge 5 dollars, it still have 95 dollars. And you can use back button to get back.
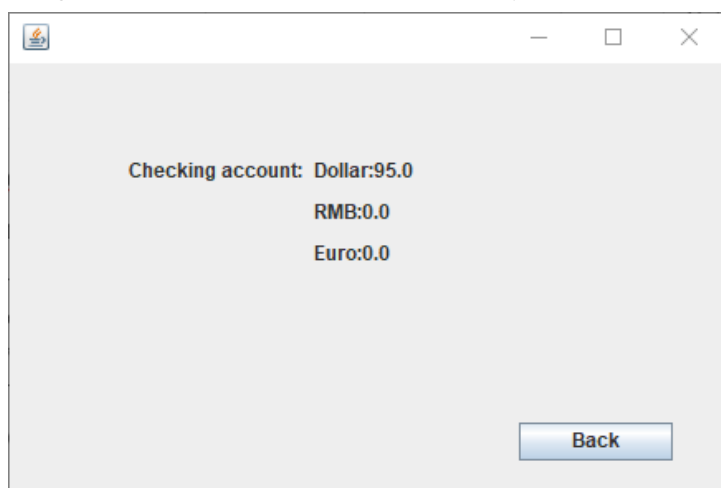

You can deposit three currency into your account, and choose the type of account that you want to deposit. If you do not have saving account but choose it, the program will remind you. And enter your PIN number to do the deposit. If the PIN number are wrong, the program will have reminder. After you deposit, you can see the balance again to see if the deposit done. The bank do not charge for deposit.
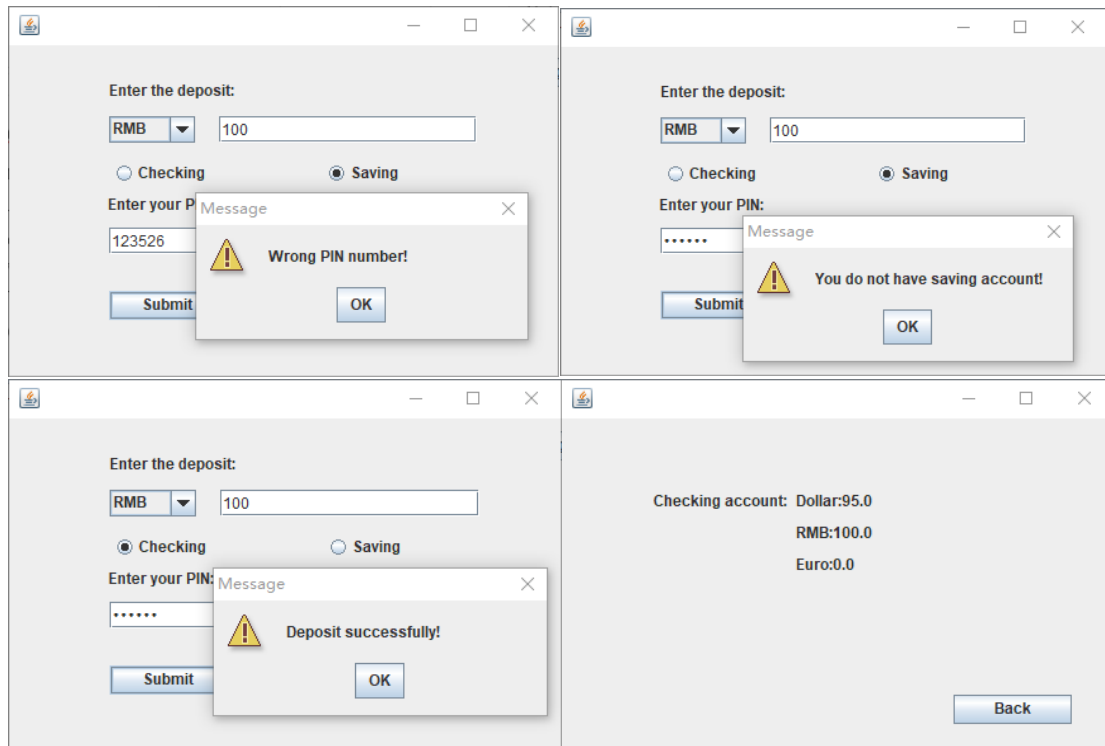
You can withdraw three currency into your account, and choose the type of account that you want to withdraw. If you do not have saving account but choose it, the program will remind you. And enter your PIN number to do the deposit. If the PIN number are wrong, the program will have reminder. After you withdraw, you can see the balance again to see if the withdraw done.

If you do not have enough money to withdraw, the bank will not allow you to withdraw. The bank will charge 5 dollars when you withdraw, if you do not have enough money to pay it, the bank will not allow you to finish the operation.
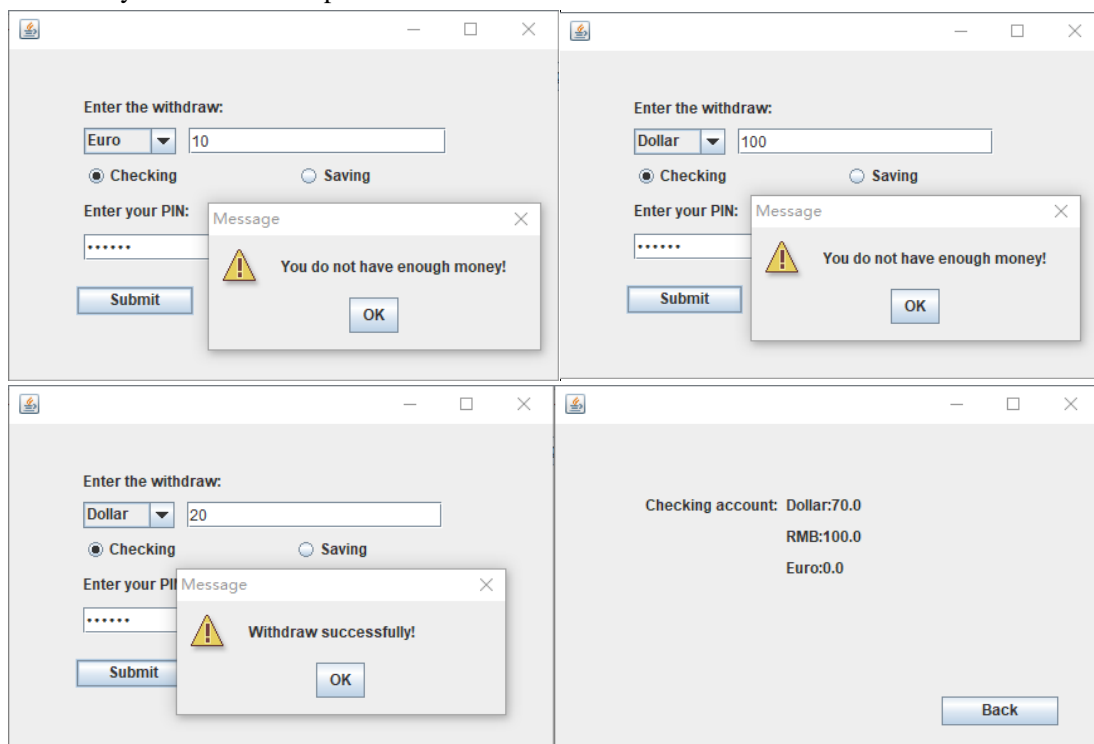
When you choose to take transactions, enter the checking account number of the receiver, the amount of money(three currency provided) and your PIN number. The bank charge for 5 dollars for each transaction. Still reminders if there are some problems with your operation.
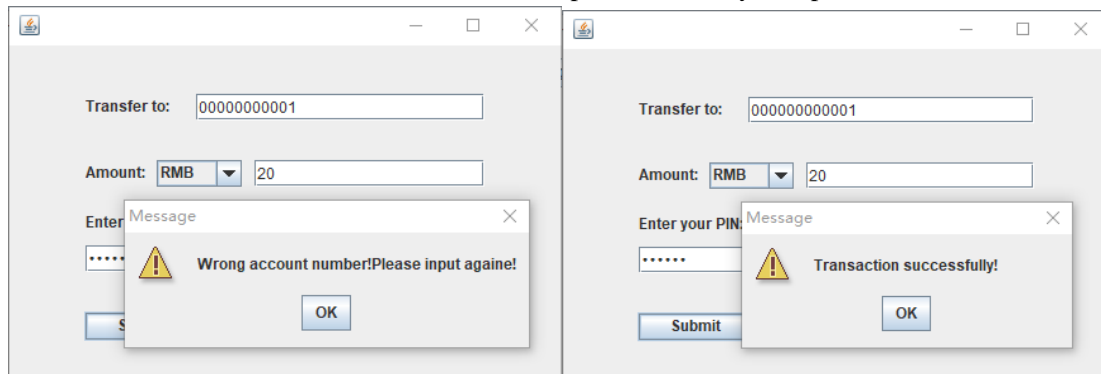

When you loan, three currency are allowed. Choose the length of loan and enter the collateral, the loan will not be allowed if you do not enter the collateral. The interest of the loan is 10%.
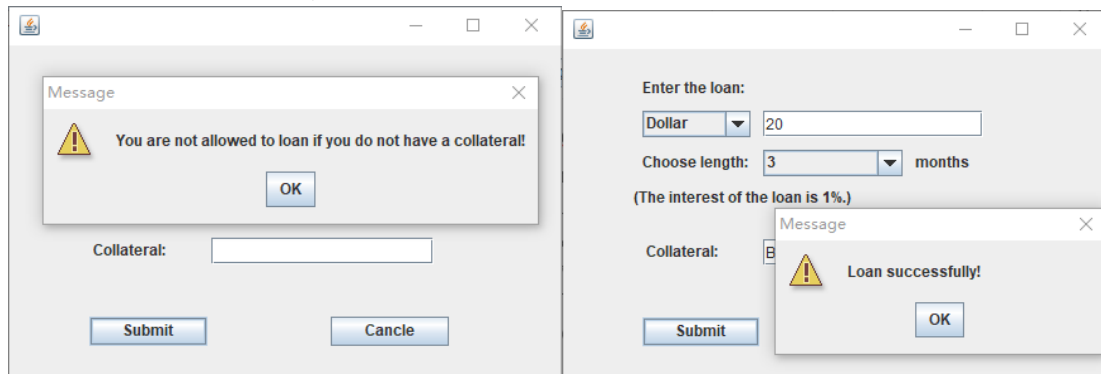

If you want to open saving account, click the "open saving" button. If you already have a saving account, the program will remind you, if you do not have, you will get a reminder that you open saving account successfully. When you open saving account, the balance in the saving account are all 0. If you do not have enough money in the checking account to pay for the charge, the program will not allow you to open the account.
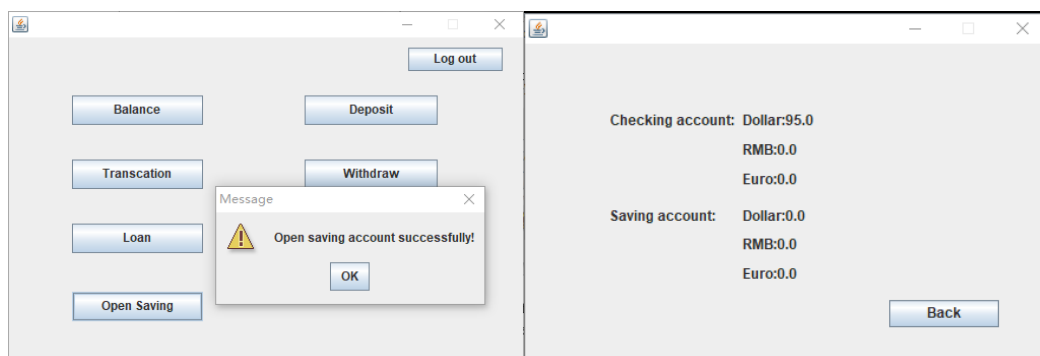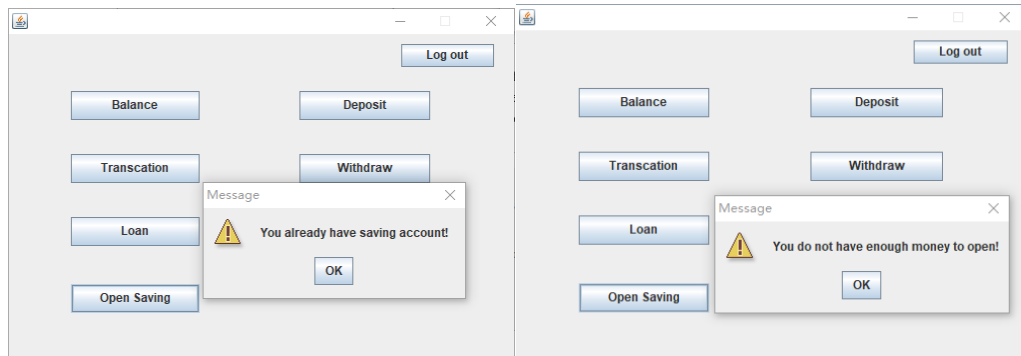
If you choose to close account, you can choose to close both or only saving, you can not choose only checking because the bank need to charge from your checking account. If you do not have saving account but choose it, the program will remind you. Closing an account need you to pay 5 dollars for each account.

When you close either accounts or only checking account, you will go back to the login interface. Then you cannot use that username and password to login because the customer has been removed.
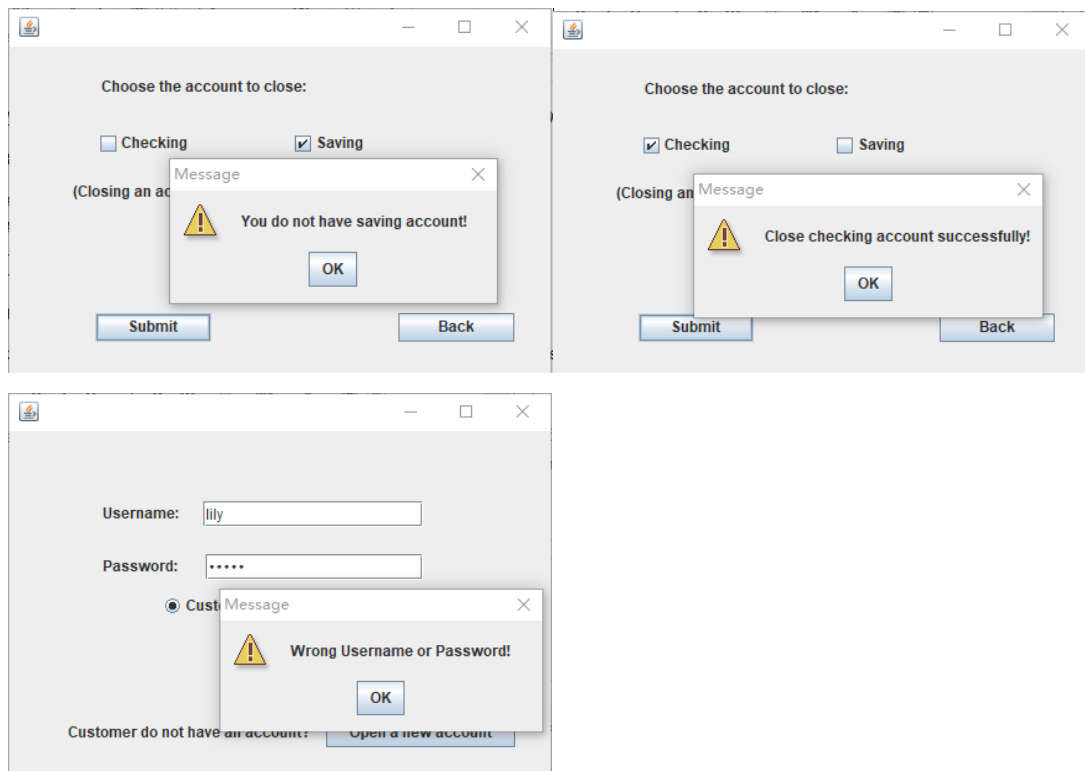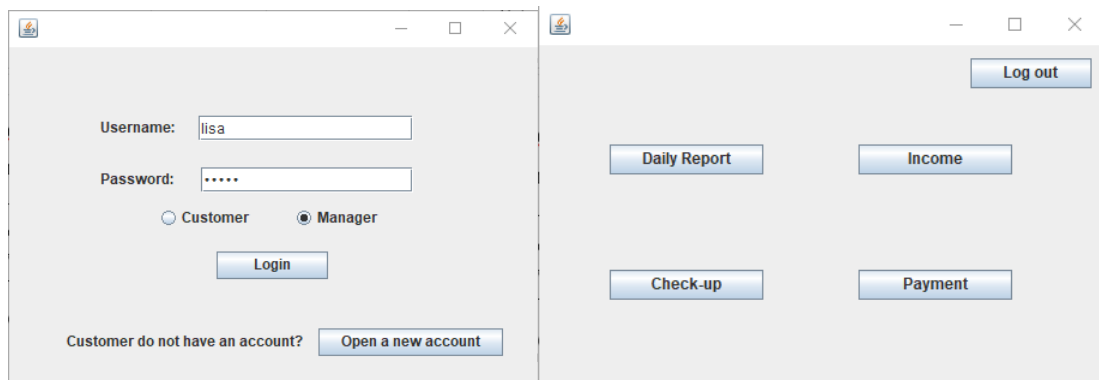

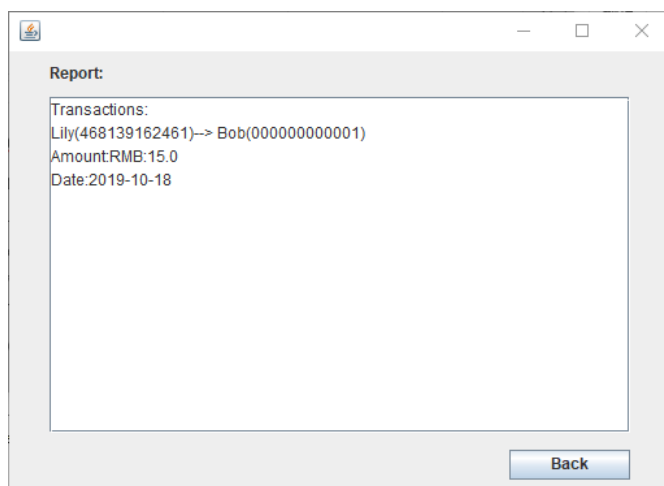Also, you can log out when you do not want to do operations any more.
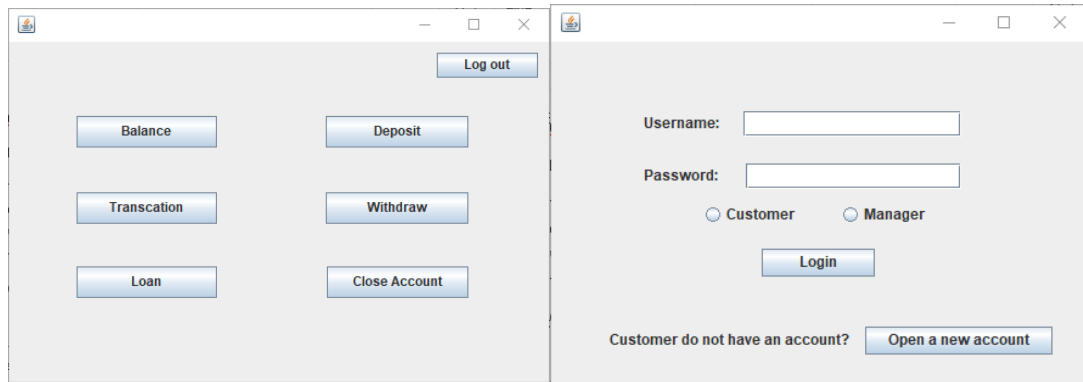
Manager

If you login as a manager, you will enter the interface for manager.

You can see daily report about the transactions. Even there are a customer close his account, his transaction record will still be saved.

You can check up a specific customer or all customers. Information including name, phone, username, account information and the most important, the loan will show.

You can see the income of the day. The income with its type will show. And the total income will show, too.

You can see your payment of the day. The bank only pay interest on savings accounts that have high balances. If the amount of the money in saving account is larger than 50, then the bank will pay for 5%. The total payment will show, too.

You can also log out to the login interface.