

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:

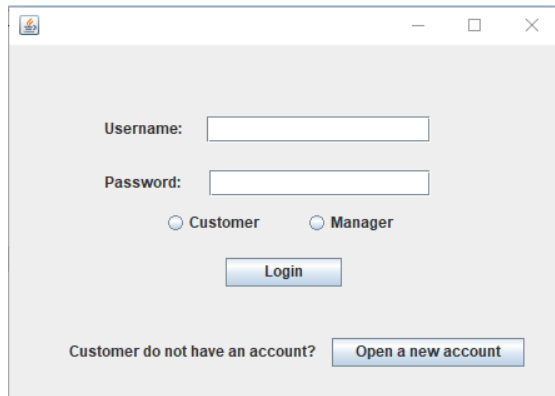
Name	Bob	Mary
Phone	1234567892	7894561230
Username	bob	ma
Password	00000	00000
Checking account number	0000000000001	0000000000002
Saving account number	0000000000002	0000000000003
PIN number(same for checking and saving)	123456	123456
Checking balance	Dollar:100 RMB:0 Euro:0	Dollar: 0 RMB:0 Euro:0
Saving 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:

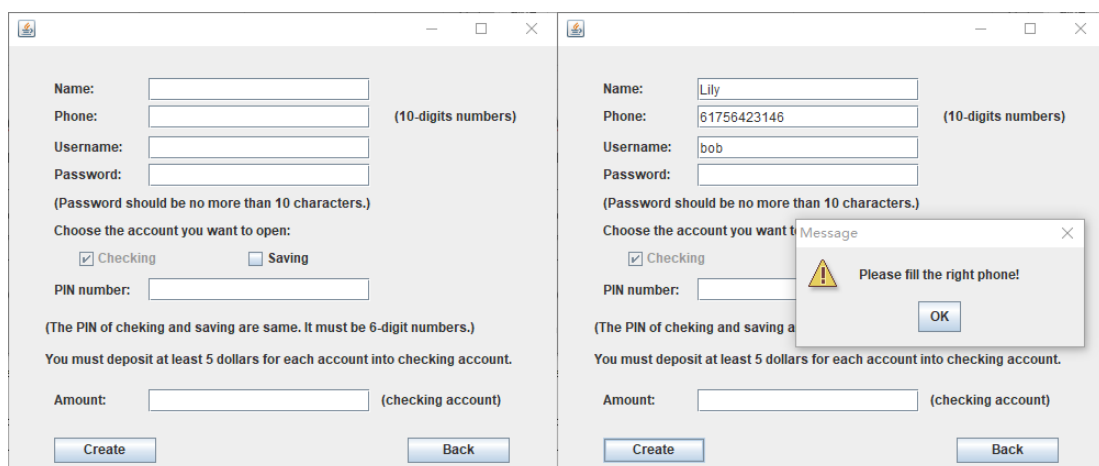
At the beginning of the program, the interface of login will show. You can use username and password to login.



A login window with a light gray background. It contains a 'Username:' label followed by a text input field, a 'Password:' label followed by a text input field, and two radio buttons labeled 'Customer' and 'Manager'. Below these is a 'Login' button. At the bottom, there is a text label 'Customer do not have an account?' followed by an 'Open a new account' button.

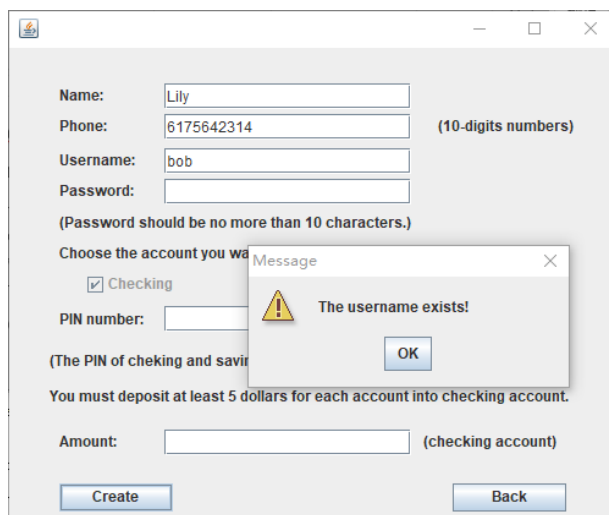
If there is a new customer need to open a new account, then click the button “open a new account”, then the new customer can fill the form to open a new account. The password is used to login and the PIN number is used to do the operations like deposit and withdraw.

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.



Two side-by-side screenshots of an account creation window. The left screenshot shows the form with fields for Name, Phone (10-digits numbers), Username, Password (no more than 10 characters), a choice between Checking and Saving accounts, PIN number (6-digit numbers), and Amount (checking account). The right screenshot shows the same form with a 'Message' dialog box overlaid that says 'Please fill the right phone!' with an 'OK' button.

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



A screenshot of the account creation window with a 'Message' dialog box overlaid that says 'The username exists!' with an 'OK' button. The form fields are filled with: Name: Lily, Phone: 6175642314, Username: bob, Password: (empty), and Amount: (empty).

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.

The image shows two side-by-side screenshots of a web form for opening a new bank account. Both forms have the following fields: Name (Lily), Phone (6175642314), Username (lily), Password (00000), PIN number (000000), and Amount. There are checkboxes for 'Checking' and 'Saving' accounts. The left form has the 'Checking' checkbox selected, and a message box says 'Your checking deposit is not enough!'. The right form has the 'Checking' checkbox selected, and a message box says 'Open account successfully!'. Both forms have 'Create' and 'Back' buttons at the bottom.

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

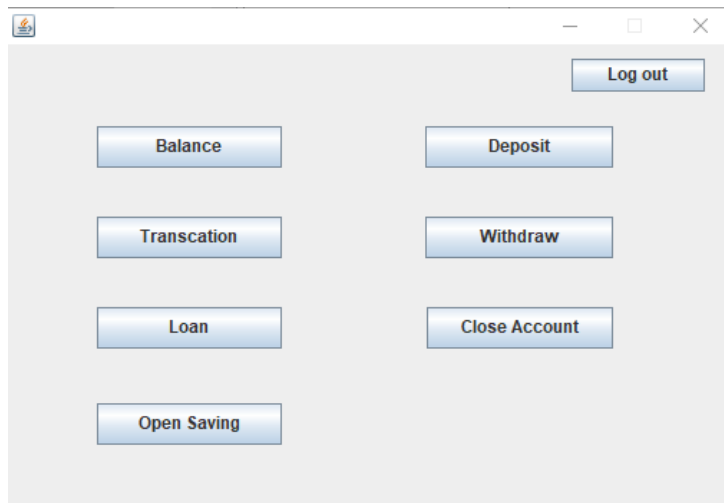
The image shows a window with a light gray background. It contains the following text: 'Welcome! Lily!', 'Your phone is 6175642314.', 'Your username is lily.', and 'Your checking account number is 468139162461.'. At the bottom, there is a button labeled 'Back to login'.

Customer

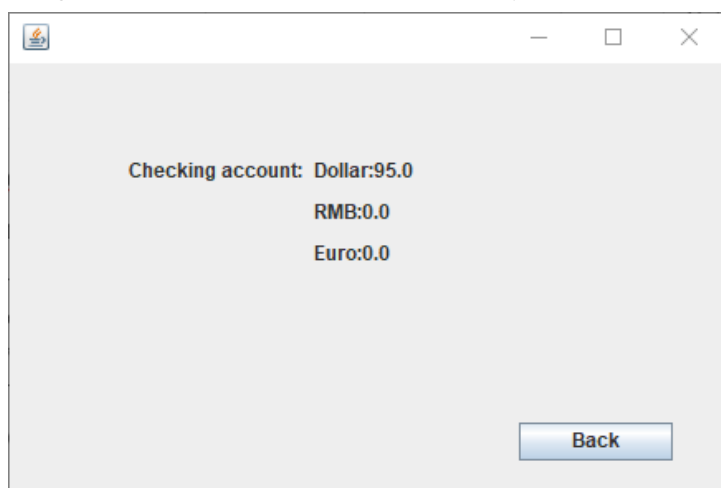
After remembering the account number, you can click the button to go back to login interface to login and use the username and password to enter the system.

The image shows a login form with a light gray background. It has two input fields: 'Username:' with the value 'lily' and 'Password:' with the value '*****'. Below these are two radio buttons: 'Customer' (selected) and 'Manager'. There is a 'Login' button. At the bottom, there is a link that says 'Customer do not have an account?' followed by a button labeled 'Open a new account'.

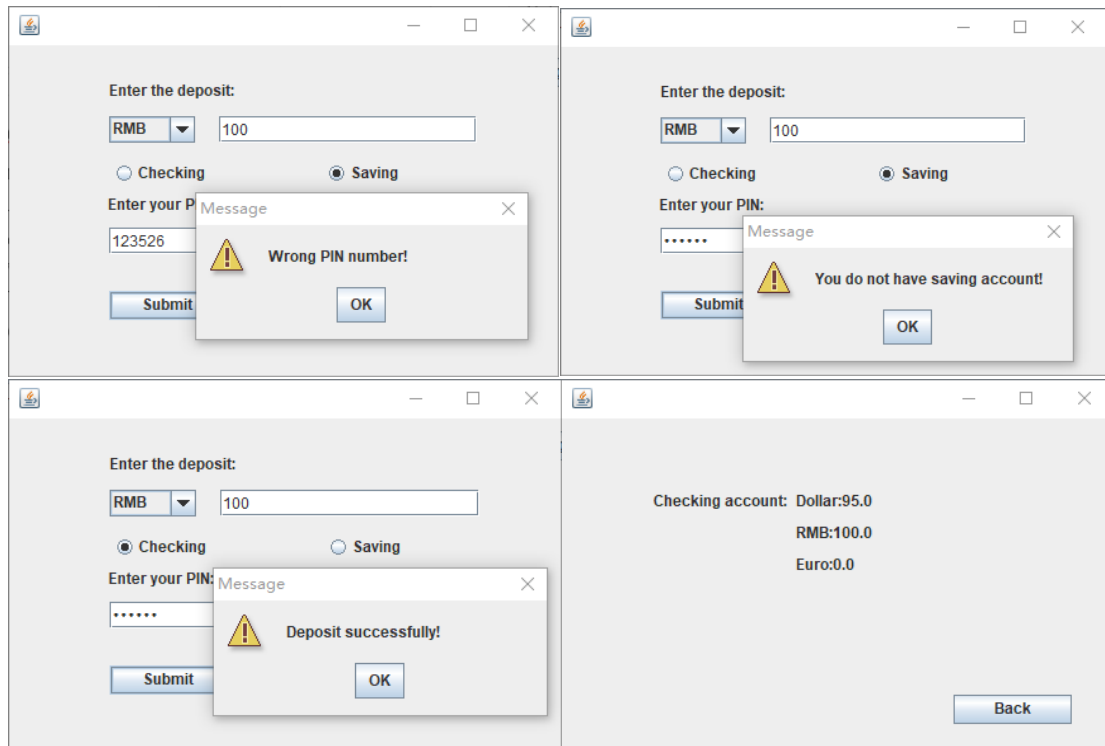
After you enter the system, you have 7 operations to choose.



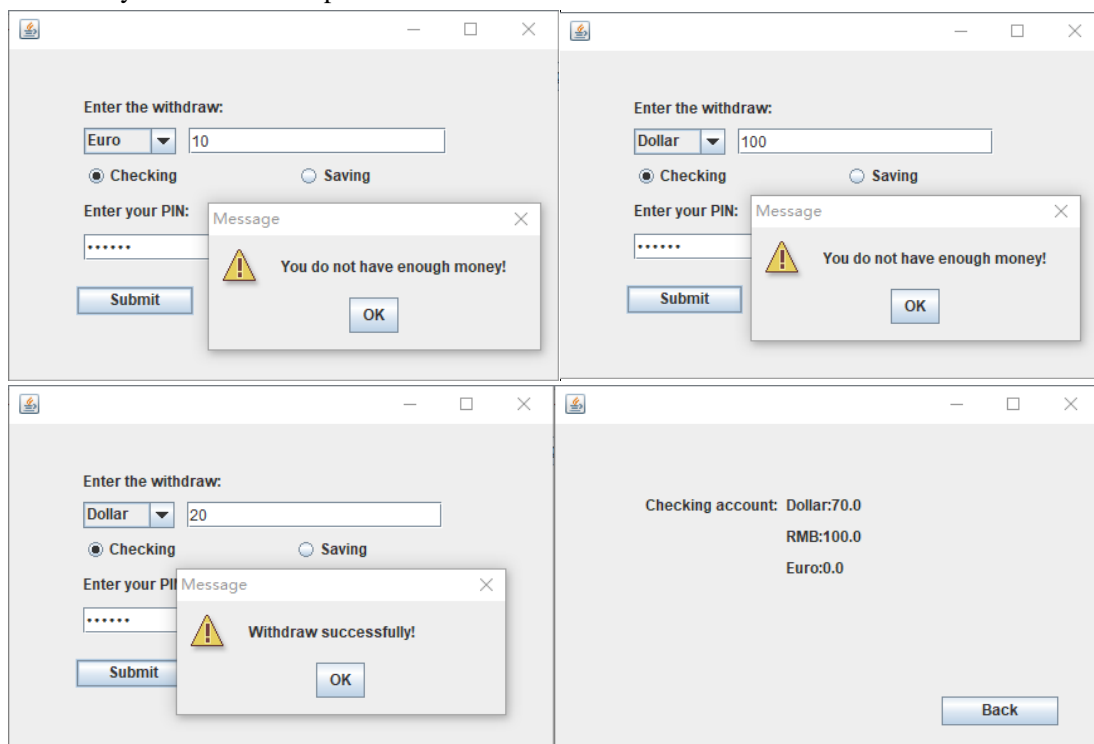
You can see your balance, you will not see the saving account if you do not have one. Three currency will be contained here, Dollar, RMB and Euro. Here the customer deposit 100 dollars, after the bank charge 5 dollars, it still have 95 dollars. And you can use back button to get back.



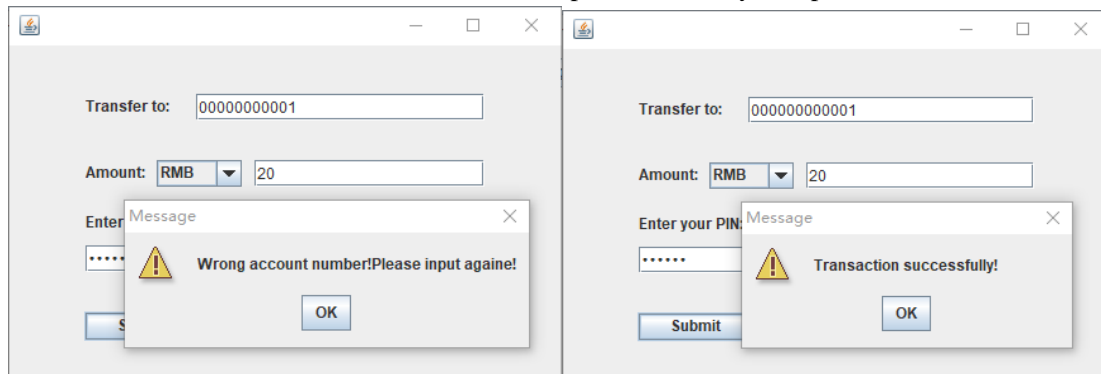
You can deposit three currency into your account, and choose the type of account that you want to deposit. If you do not have saving account but choose it, the program will remind you. And enter your PIN number to do the deposit. If the PIN number are wrong, the program will have reminder. After you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



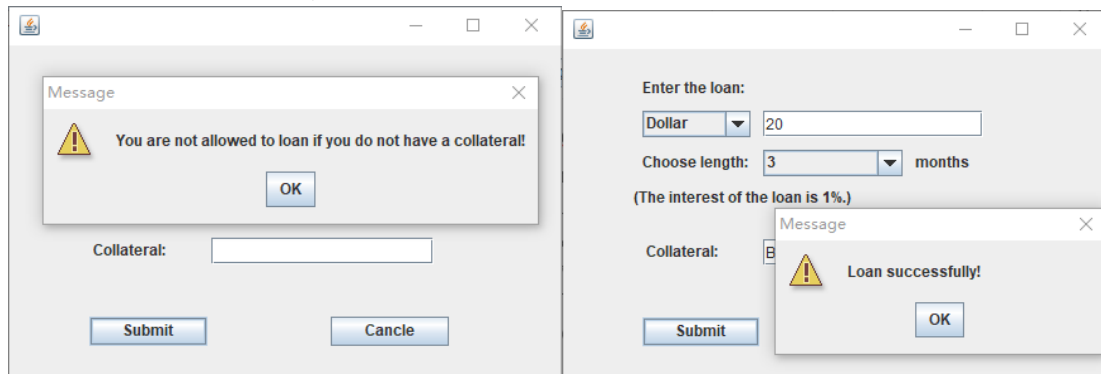
You can withdraw three currency into your account, and choose the type of account that you want to withdraw. If you do not have saving account but choose it, the program will remind you. And enter your PIN number to do the deposit. If the PIN number are wrong, the program will have reminder. After you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



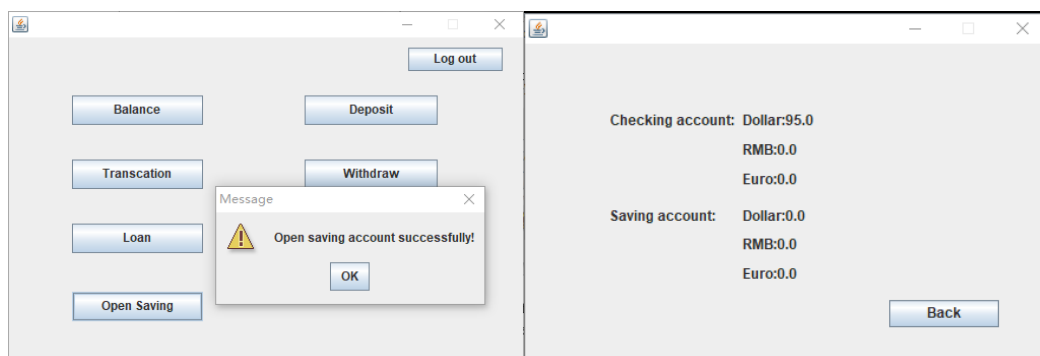
When you choose to take transactions, enter the checking account number of the receiver, the amount of money(three currency provided) and your PIN number. The bank charge for 5 dollars for each transaction. Still reminders if there are some problems with your operation.

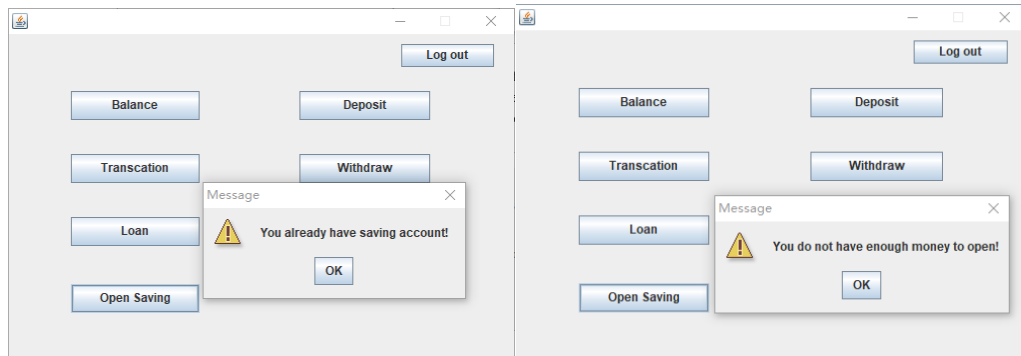


When you loan, three currency are allowed. Choose the length of loan and enter the collateral, the loan will not be allowed if you do not enter the collateral. The interest of the loan is 10%.



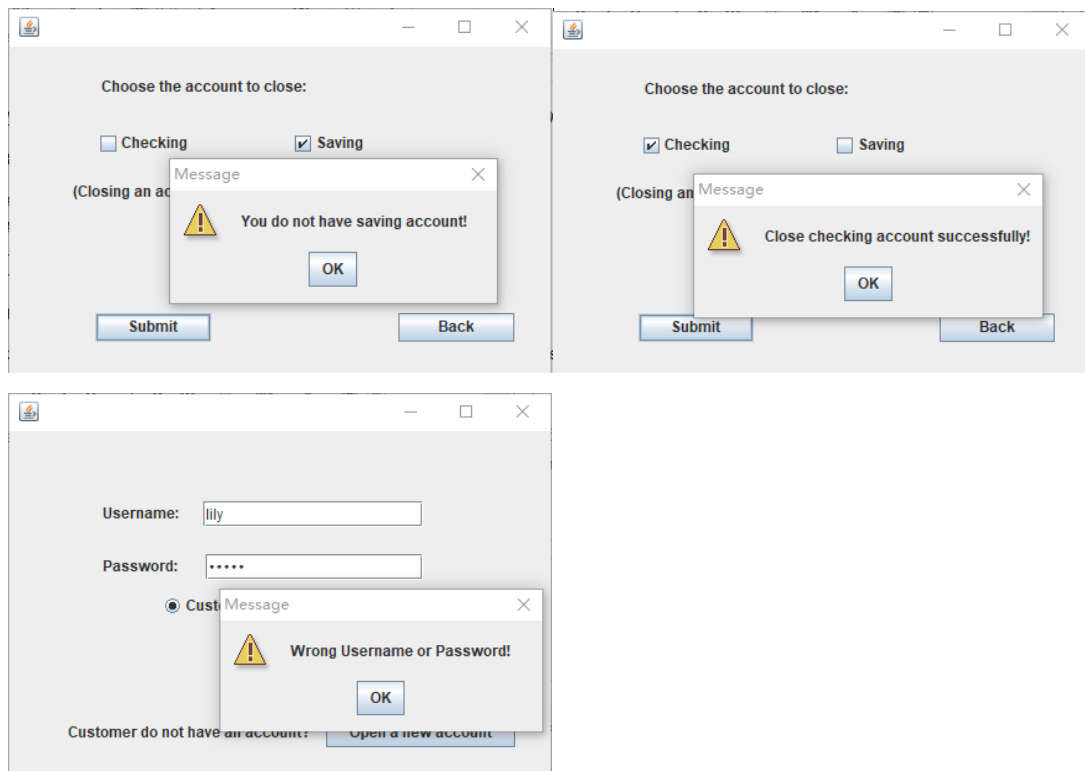
If you want to open saving account, click the “open saving” button. If you already have a saving account, the program will remind you, if you do not have, you will get a reminder that you open saving account successfully. When you open saving account, the balance in the saving account are all 0. If you do not have enough money in the checking account to pay for the charge, the program will not allow you to open the account.



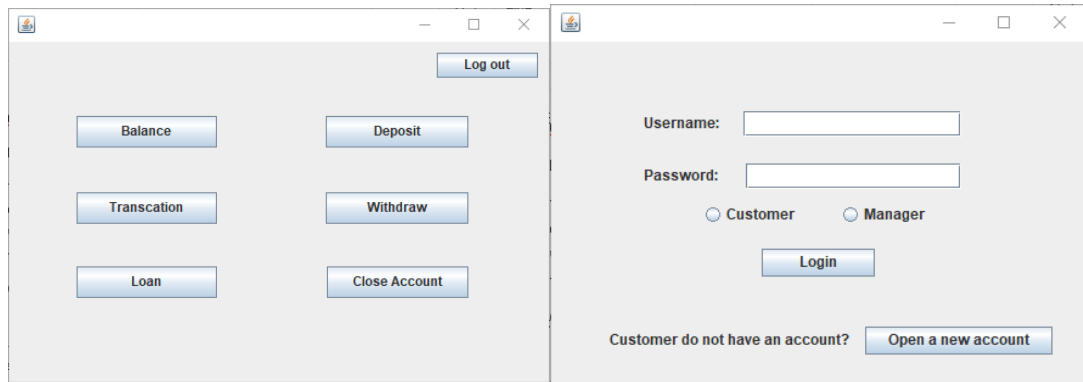


If you choose to close account, you can choose to close both or only saving, you can not choose only checking because the bank need to charge from your checking account. If you do not have saving account but choose it, the program will remind you. Closing an account need you to pay 5 dollars for each 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.

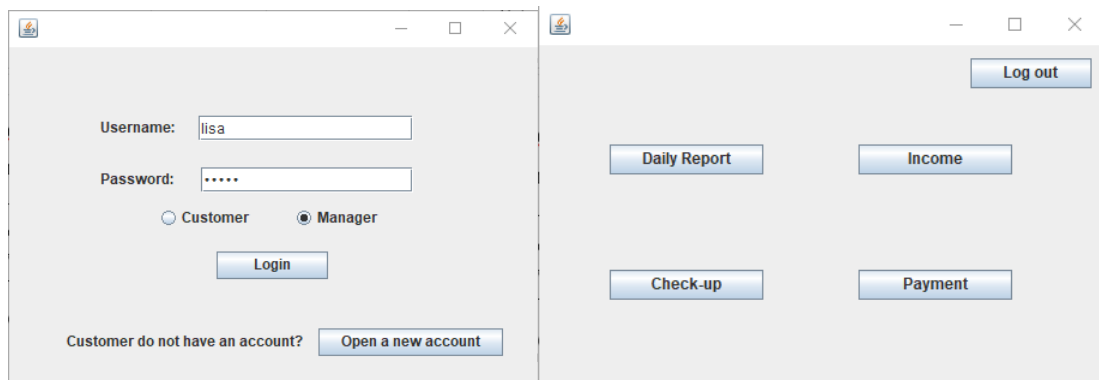


Also, you can log out when you do not want to do operations any more.

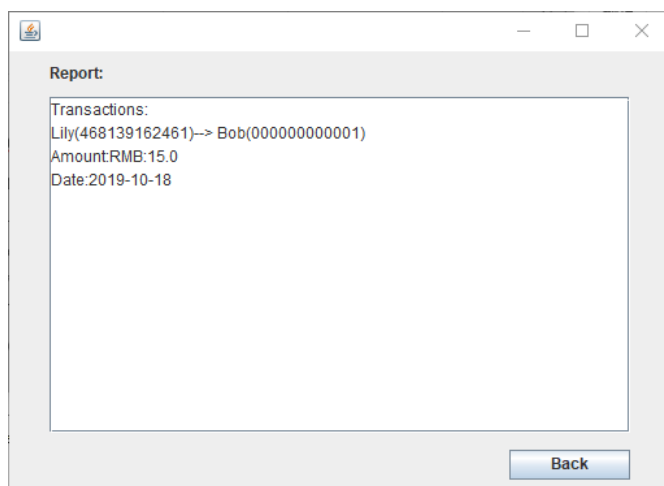


Manager

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.

Enter name: Lily Check

Name: Lily
 Phone: 6175642314
 Username: lily
 Checking account: 468139162461
 Checking balance:
 Dollar:70.0 RMB:80.0 Euro:0.0

 Loan:
 Amount:Dollar 20.0
 Length:3 months
 Interest:0.1
 Collateral:Bob

Back

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

Manager, your income is as follows:

Type:Loan
 Amount:10.0 Dollar

 Type:Open Accounts
 Amount:5.0 Dollar

 Type:Withdraw
 Amount:5.0 Dollar

 Type:Transaction

Total income: Dollar:27.0
 RMB:0.0
 Euro:0.0

Back

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.

Your payment:

=====
 Name: Bob
 Phone: 1234567892
 Username: bob
 Saving account: 000000000002
 Saving balance:
 Dollar:100.0 RMB:0.0 Euro:0.0
 Payment: Dollar:5.0

Total payment: Dollar:5.0
 RMB:0.0
 Euro:0.0

Back

You can also log out to the login interface.

Log out

Daily ReportIncomeCheck-upPayment

Username: Password:

Customer Manager

Login

Customer do not have an account? Open a new account