

# User Manual

Banking system

Team3

student xxxx

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Notice: some operation act exactly the same, for simplicity the operation will only occur once in the manual. You can refer to corresponding page to see the detail.

# 1Manual for customer

## 1.1Customer App

### 1.1.1 Log in

To log in the Customer App, customer should enter the Account and Password, and then press “Log in” button.

The image shows a screenshot of a web application window titled "CustomerAPP". The main heading is "Shanghaitech Bank Customer APP". Below it, the text reads "Welcome to Shanghaitech Bank!" and "Please enter your account and PIN.". There are two input fields: "Account :" and "PIN :", both containing the digit "0". A "Log In" button is positioned below the PIN field. A message box at the bottom center contains the text "Please enter your account and PIN.". A "Return" button is located in the bottom right corner.

Remember to enter correct Account and PIN, or the log in will fail

If you enter the wrong ID, the message box will show the following message

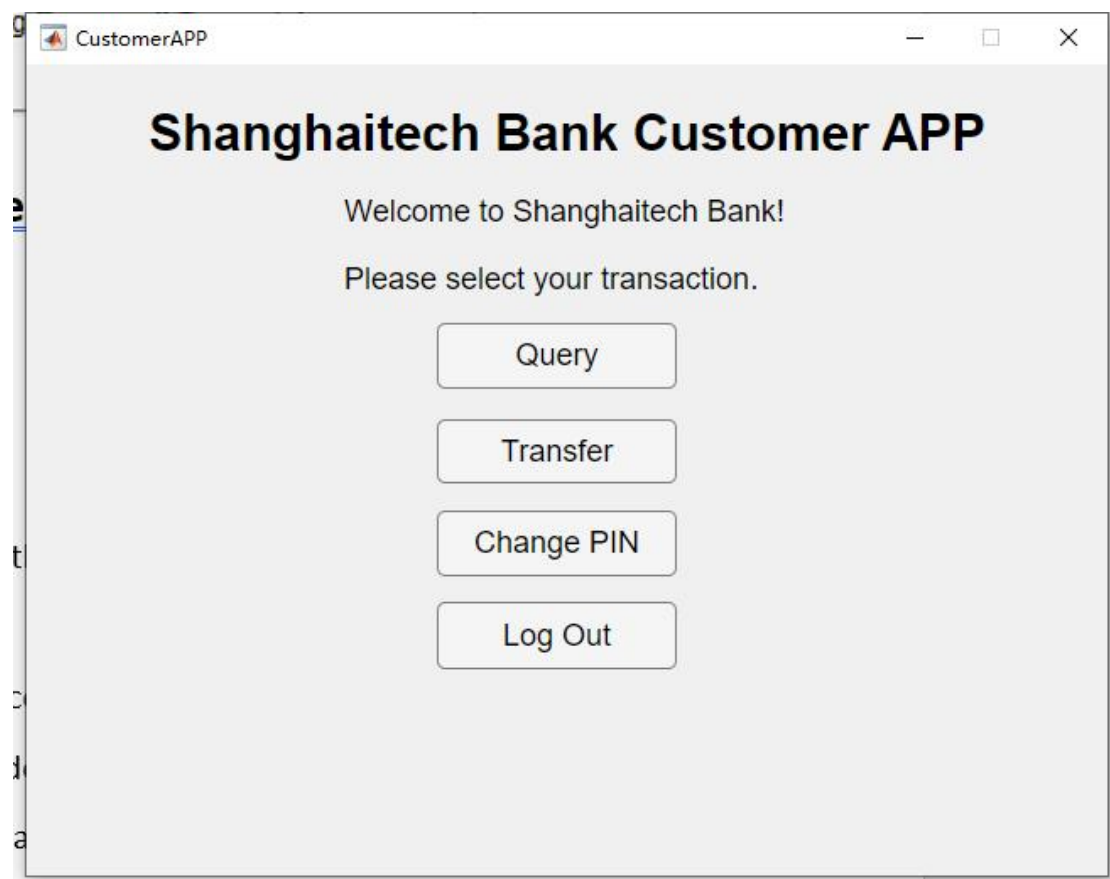
If you enter Wrong ID! Try again! the wrong password,

the message box will show the following message.

Wrong Password! Try again!

## 1.1.2 Select transaction

After you have successfully log in, you will see the following page.



The details of these operation will be specified from 1.1.3 to 1.1.6.

Press "Query" button to see the balance. See more detail in 1.1.3.

Press "Transfer" button to transfer money to another account.

See more detail in 1.1.4

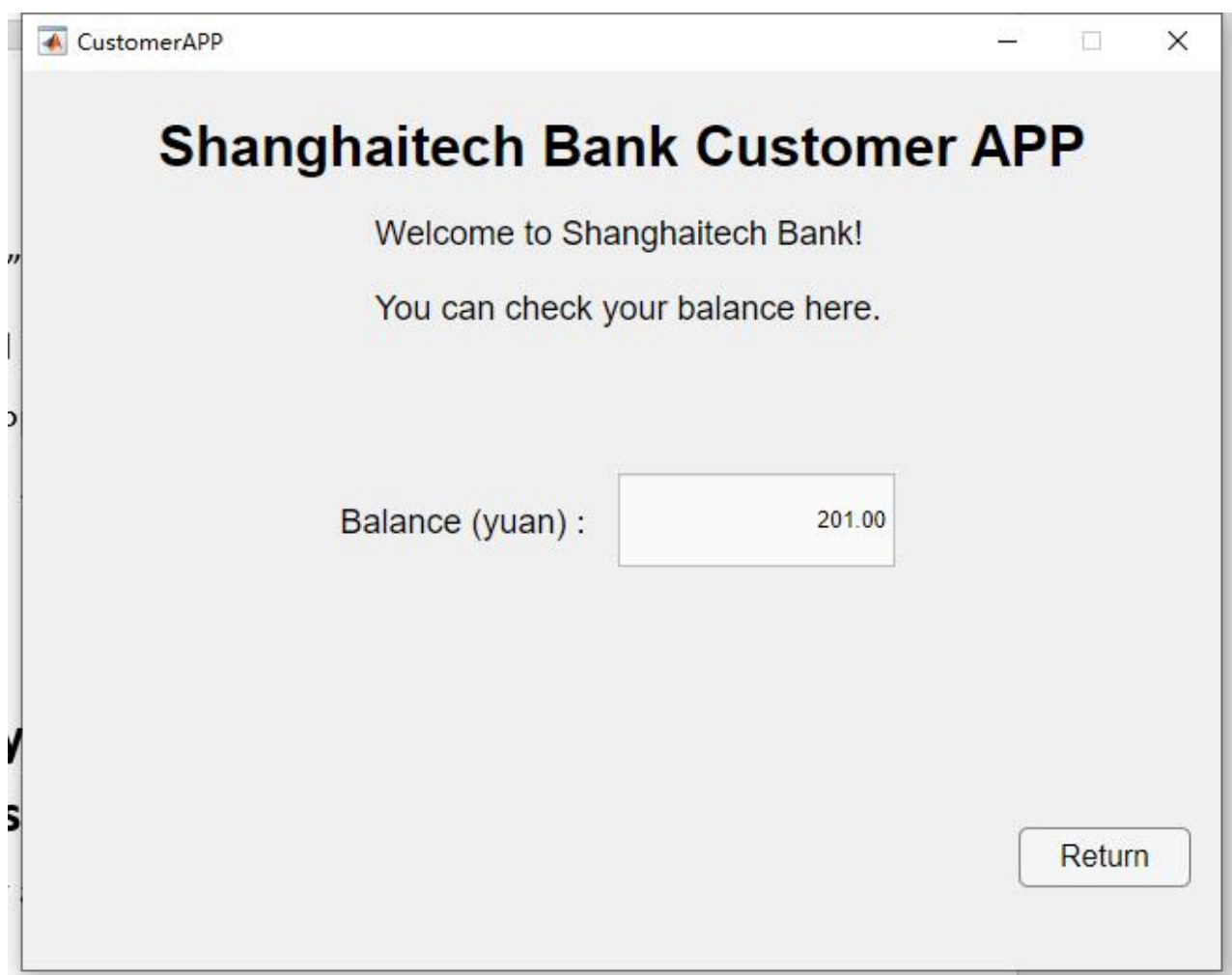
Press "Change PIN" to change the PIN. See more detail in 1.1.5

Press "Log out" to leave the current account. See more detail in 1.1.6

### 1.1.3 Query

After pressing the "Query" button. You can see the balance of your account.

Press "return" to return to the transaction menu.

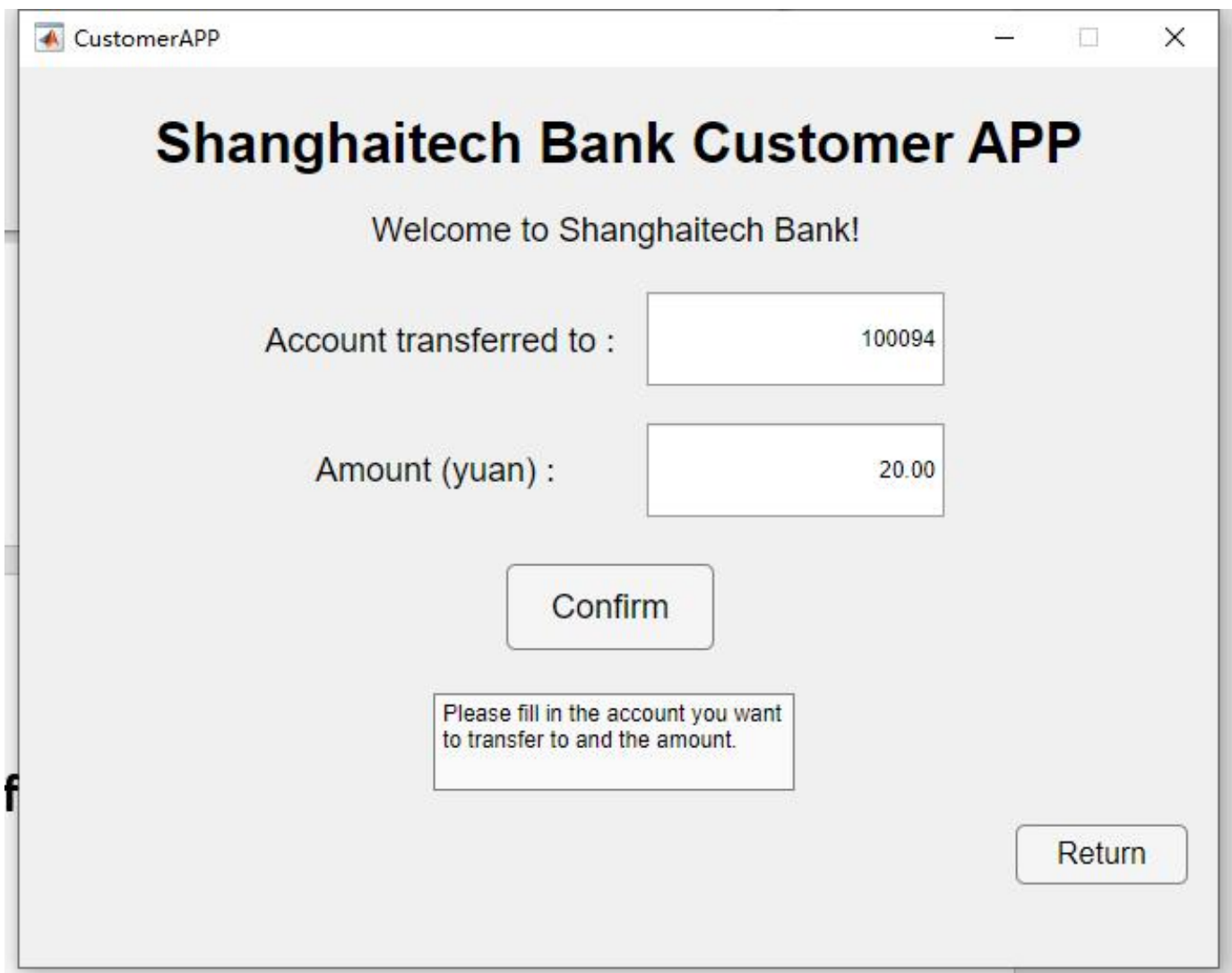


## 1.1.4 Transfer

After press "Transfer" button, you can transfer money to another account.

Enter the Account transfer to and the Amount you want to transfer, then press "Confirm" button. Then the transfer will complete.

Remember to enter the correct account and appropriate amount of money, or the transfer will fail.



The screenshot shows a window titled "CustomerAPP" with a standard Windows-style title bar (minimize, maximize, close buttons). The main content area has a light gray background. At the top, the text "Shanghaitech Bank Customer APP" is displayed in a large, bold, black font. Below this, a smaller black font says "Welcome to Shanghaitech Bank!". The interface contains two input fields: the first is labeled "Account transferred to :" and contains the value "100094"; the second is labeled "Amount (yuan) :" and contains the value "20.00". Below these fields is a button labeled "Confirm". At the bottom right, there is a button labeled "Return". A small rectangular box with a thin border contains the text "Please fill in the account you want to transfer to and the amount." and is positioned below the "Confirm" button.

CustomerAPP

# Shanghaitech Bank Customer APP

Welcome to Shanghaitech Bank!

Account transferred to : 100094

Amount (yuan) : 20.00

Confirm

Please fill in the account you want to transfer to and the amount.

Return

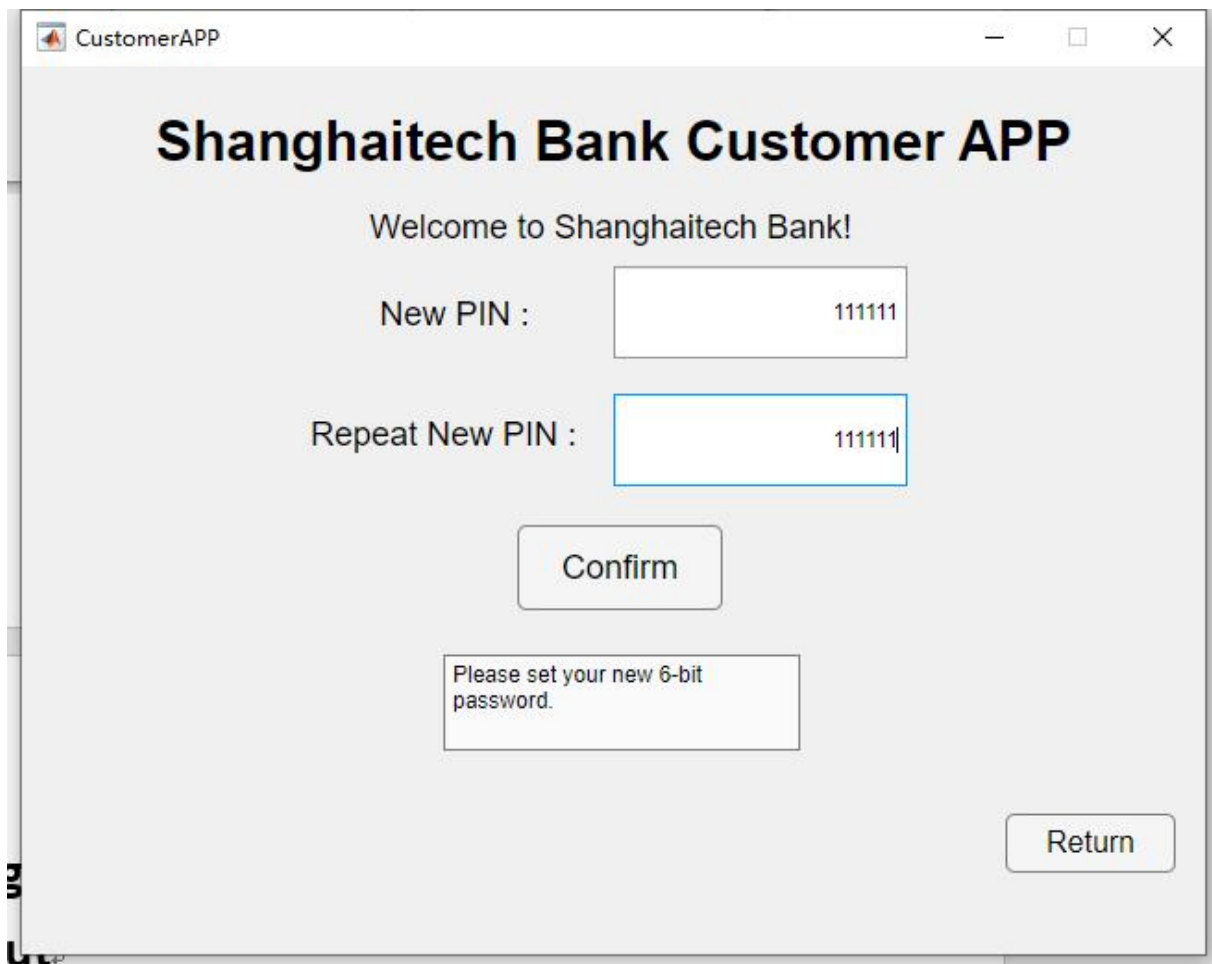
## 1.1.5 Change PIN

After press "Change PIN" button, you can change the PIN.

First enter New PIN, then enter again to repeat the new pin.

Finally press "confirm" button.

Remember to enter a PIN with 6-bit.



The screenshot shows a window titled "CustomerAPP" with standard window controls. The main heading is "Shanghaitech Bank Customer APP". Below it is a welcome message: "Welcome to Shanghaitech Bank!". There are two input fields: "New PIN :" with the value "111111" and "Repeat New PIN :" with the value "111111". A "Confirm" button is centered below the fields. At the bottom center, a message box says "Please set your new 6-bit password.". A "Return" button is in the bottom right corner.

CustomerAPP

### Shanghaitech Bank Customer APP

Welcome to Shanghaitech Bank!

New PIN :


Repeat New PIN :

Please set your new 6-bit password.

## 1.1.6 Log out

After press "Log out" button, you will exit the account and return to the initial interface.



 CustomerAPP

# Shanghaitech Bank Customer APP

Welcome to Shanghaitech Bank!

Please enter your account and PIN.

Account :

0

PIN :

0

Log In

Please enter your account and  
PIN to log in.

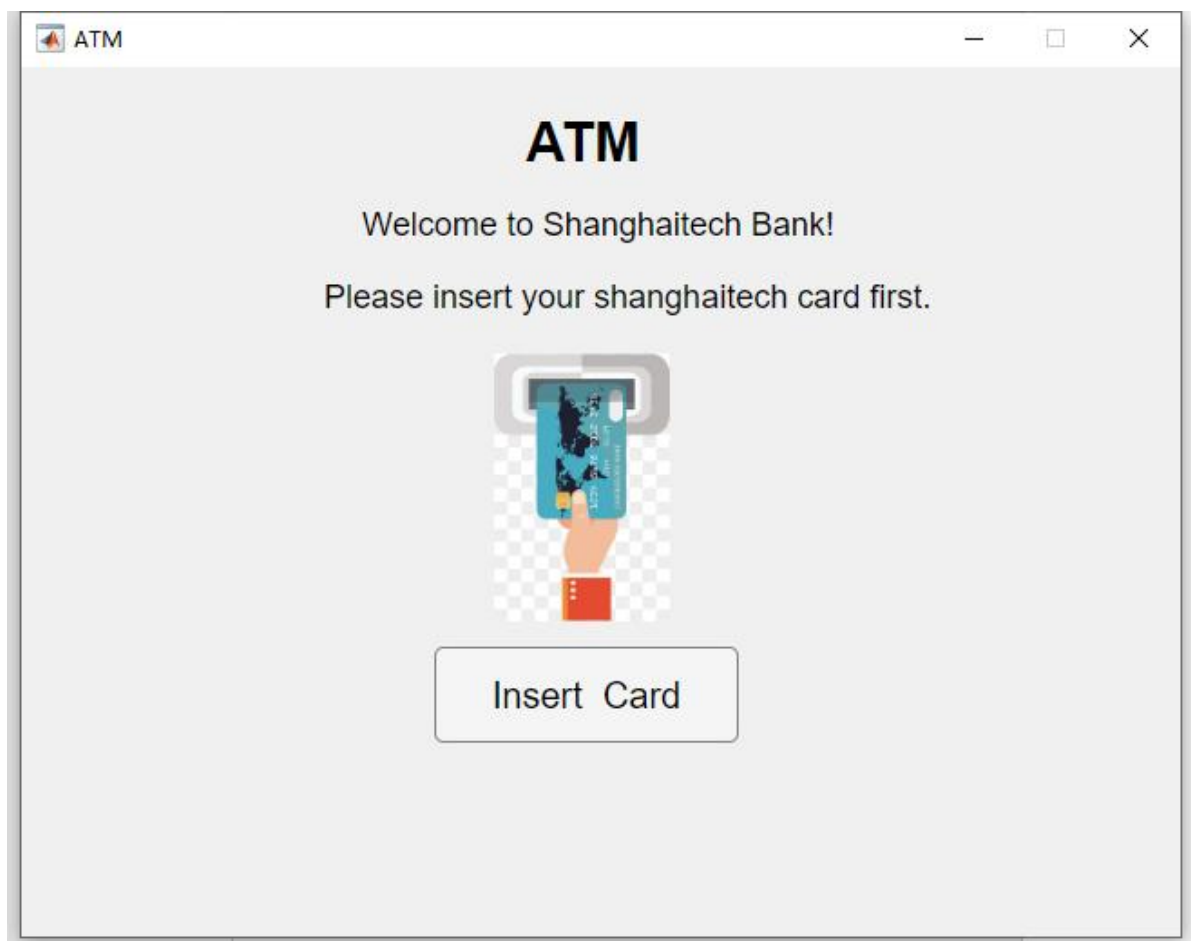
Return

## 1.2 ATM

### 1.2.1 Inset card

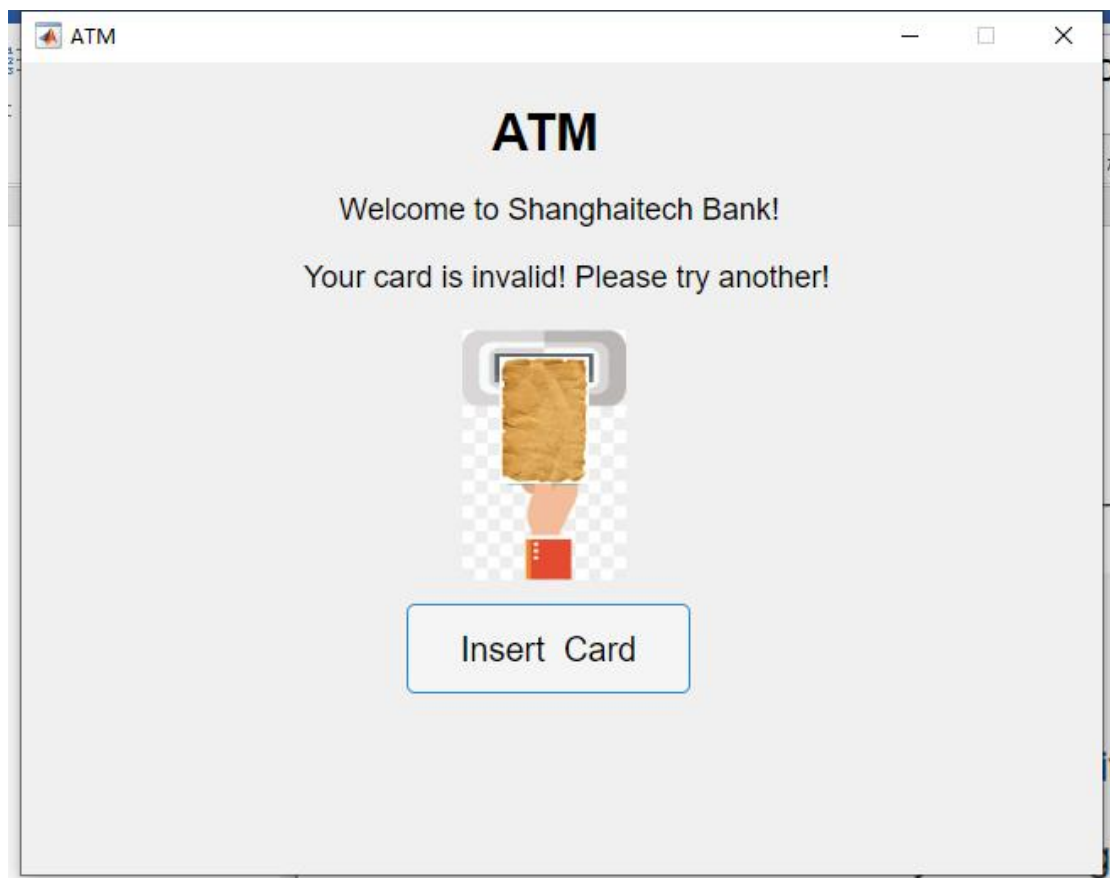
Press “Insert Card” to insert a card.(In reality you need to insert a physical card)

Remember to insert a valid card.



You can press button “n” on the keyboard to simulate inserting a fake card, which will lead to an error.

And you can use button “c” on the keyboard to replace the fake card with valid card showed in the previous picture.

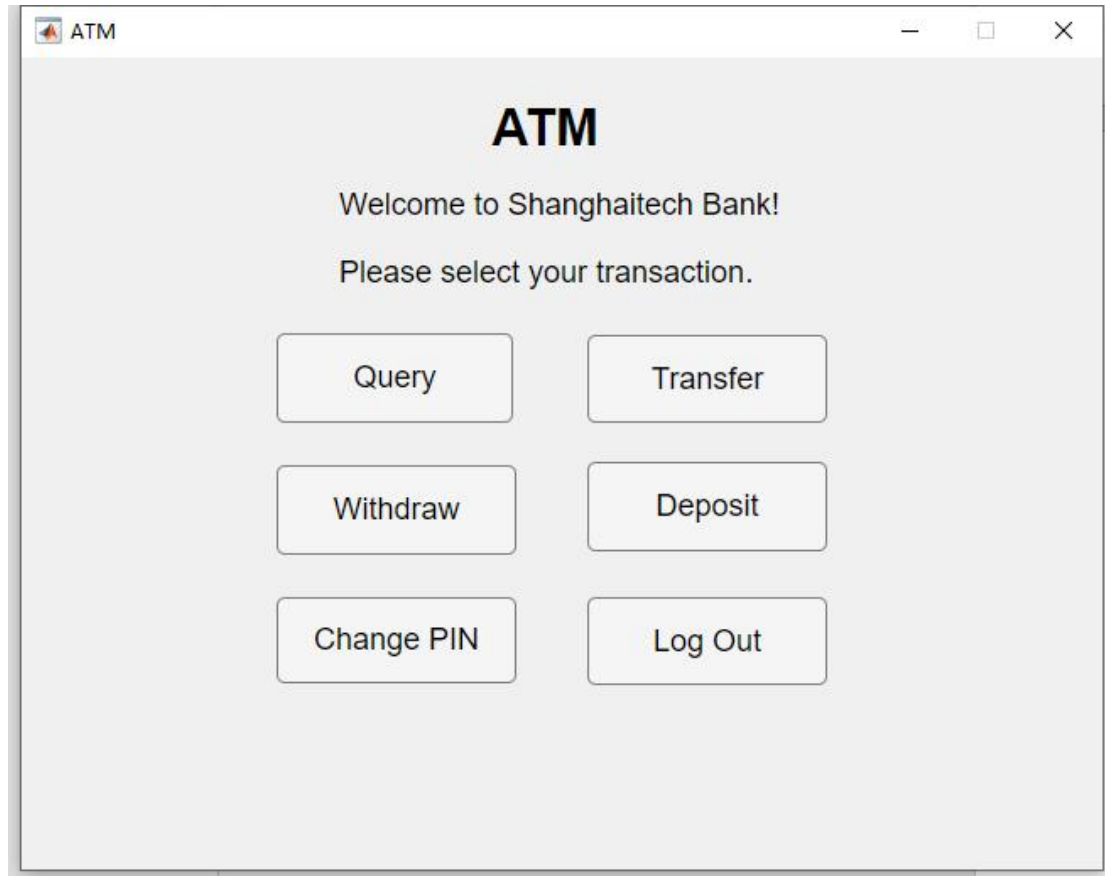


## 1.2.2 Log in

Please refer to 1.1.1.

## 1.2.3 Select transaction

After successfully log in, you will see the following page



See more detail from 1.2.4 to 1.2.9

## 1.2.4 Query

Please refer to 1.1.3.

## 1.2.5 Transfer

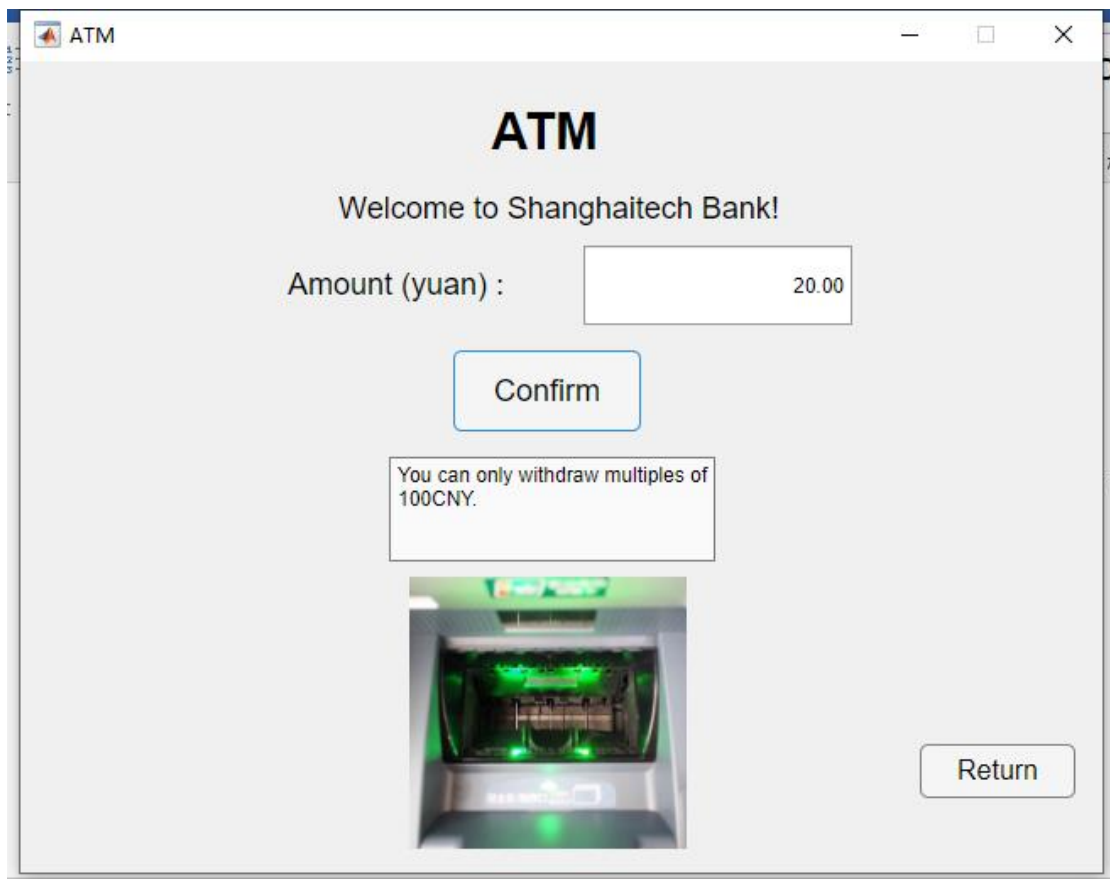
Please refer to 1.1.4.

## 1.2.6 Withdraw

After press "Withdraw", you will see the following page

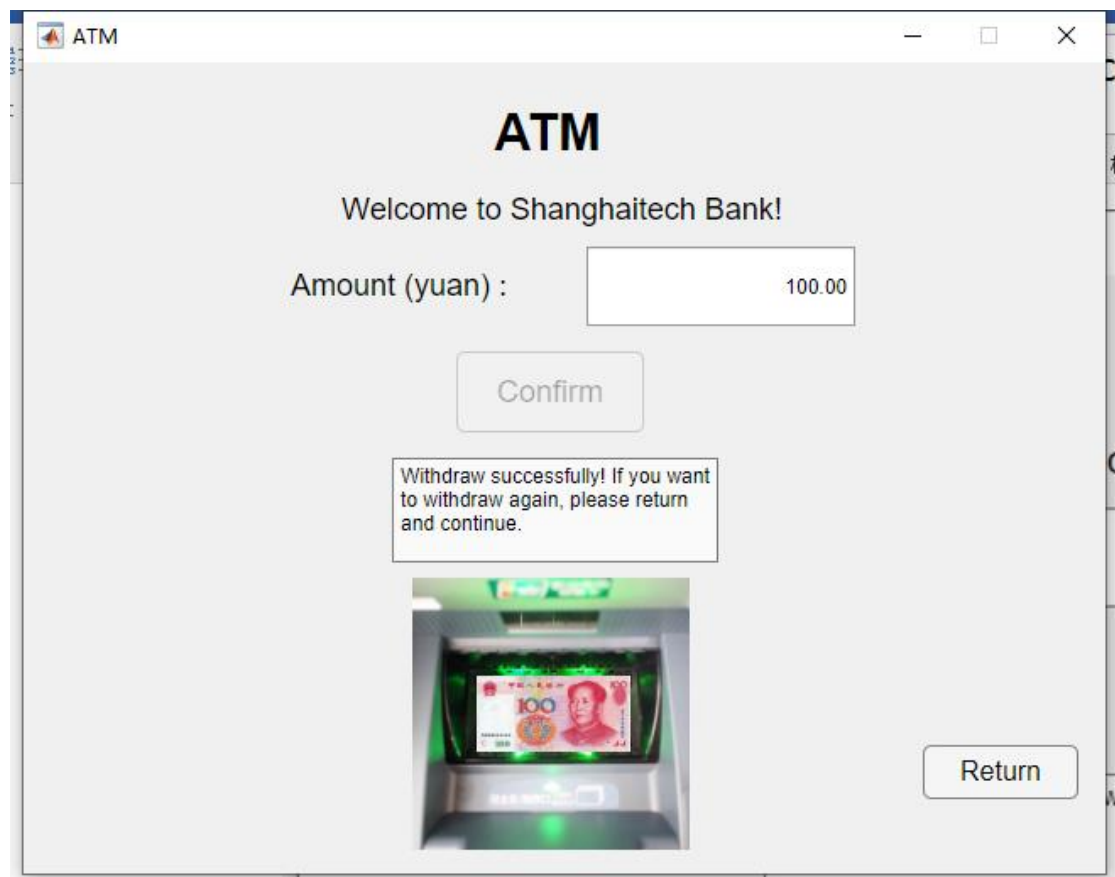
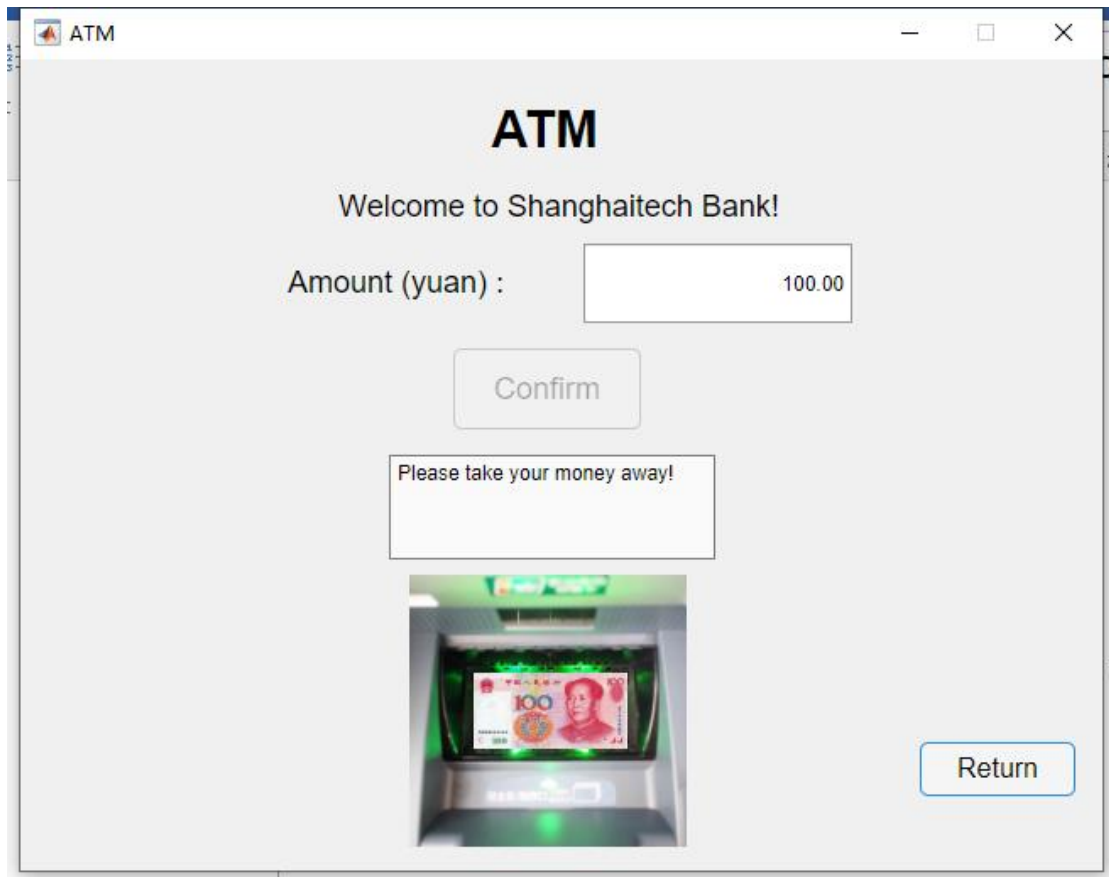
Enter the amount you want to withdraw and then press "confirm".

Remember to enter number which is a multiple of 100, or the ATM will fail to withdraw and remind you.



Please take the money by clicking on the money, or you will not be able to return and ATM will remind you to take money.

After taking the money, the withdraw is successful . If you want to withdraw again, please first return and then withdraw a second time.

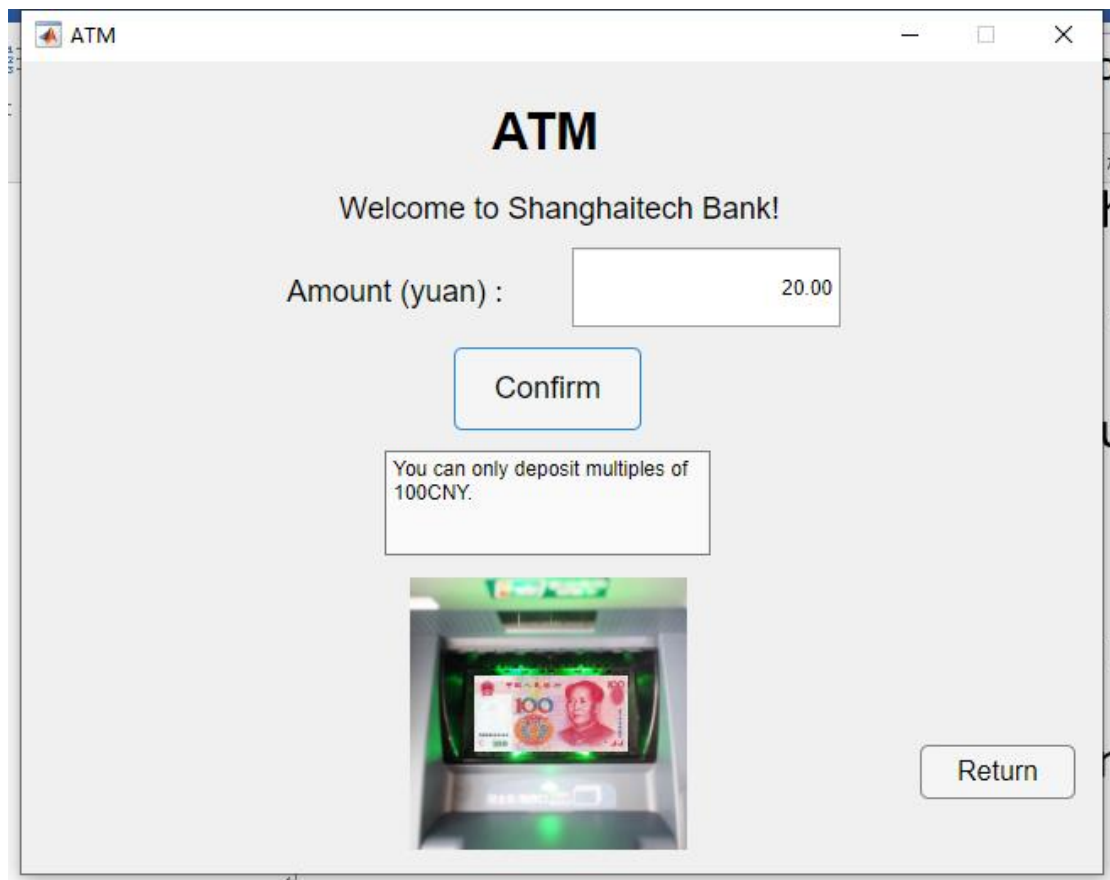


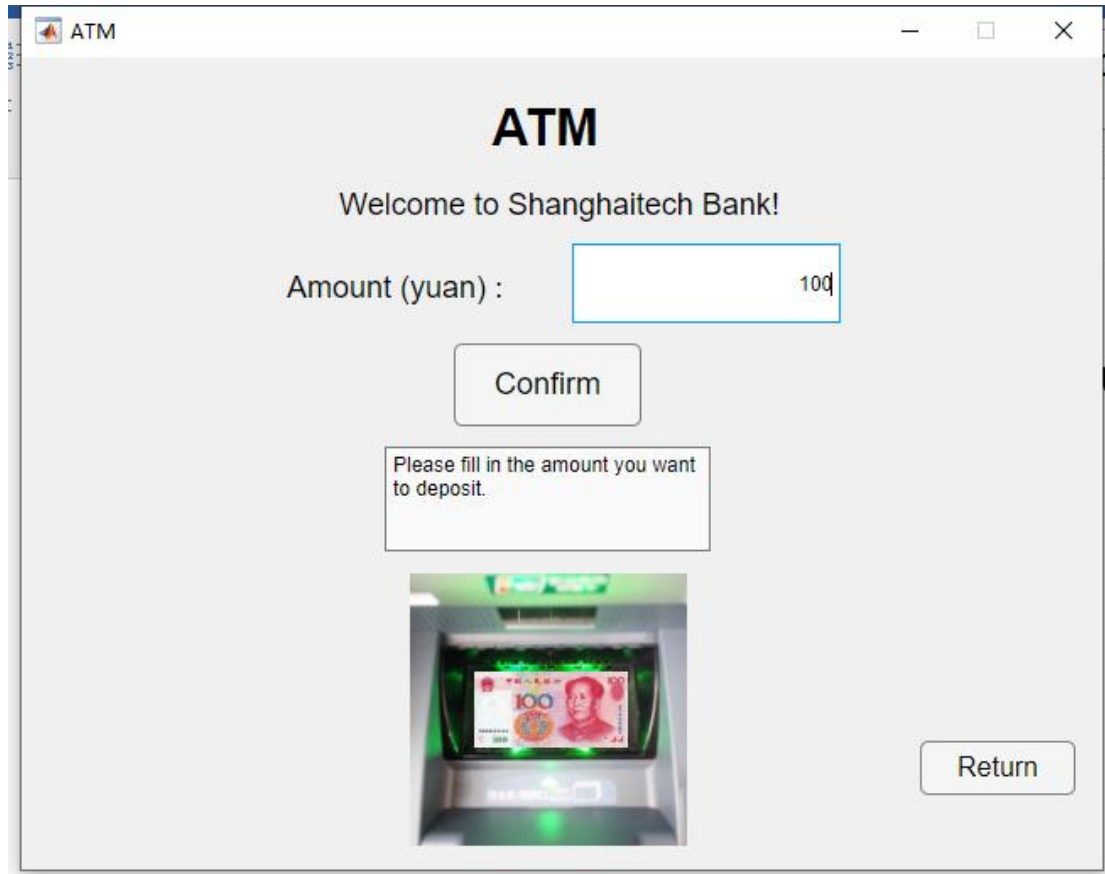
## 1.2.7 Deposit

After press " Deposit", you will see the following page

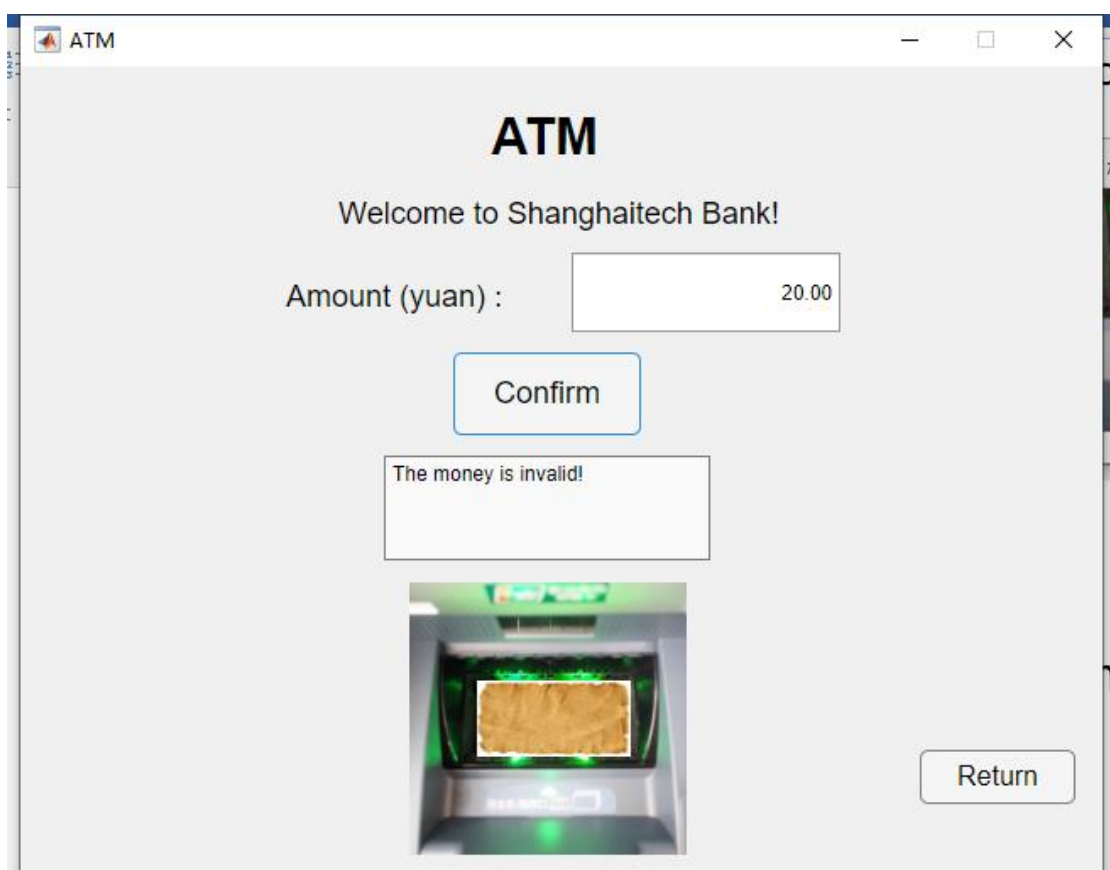
Similar to 1.2.6, enter the amount you want to withdraw and then press "m" on keyboard to simulate offering a real money. And then press "confirm".

Remember to enter number which is a multiple of 100, or the ATM will not recognize the money and remind you.





You can press “n” on keyboard to simulate a fake money. Which will cause the deposit to fail, and ATM will remind you it is invalid.





## **1.2.8 Change PIN**

Please refer to 1.1.5

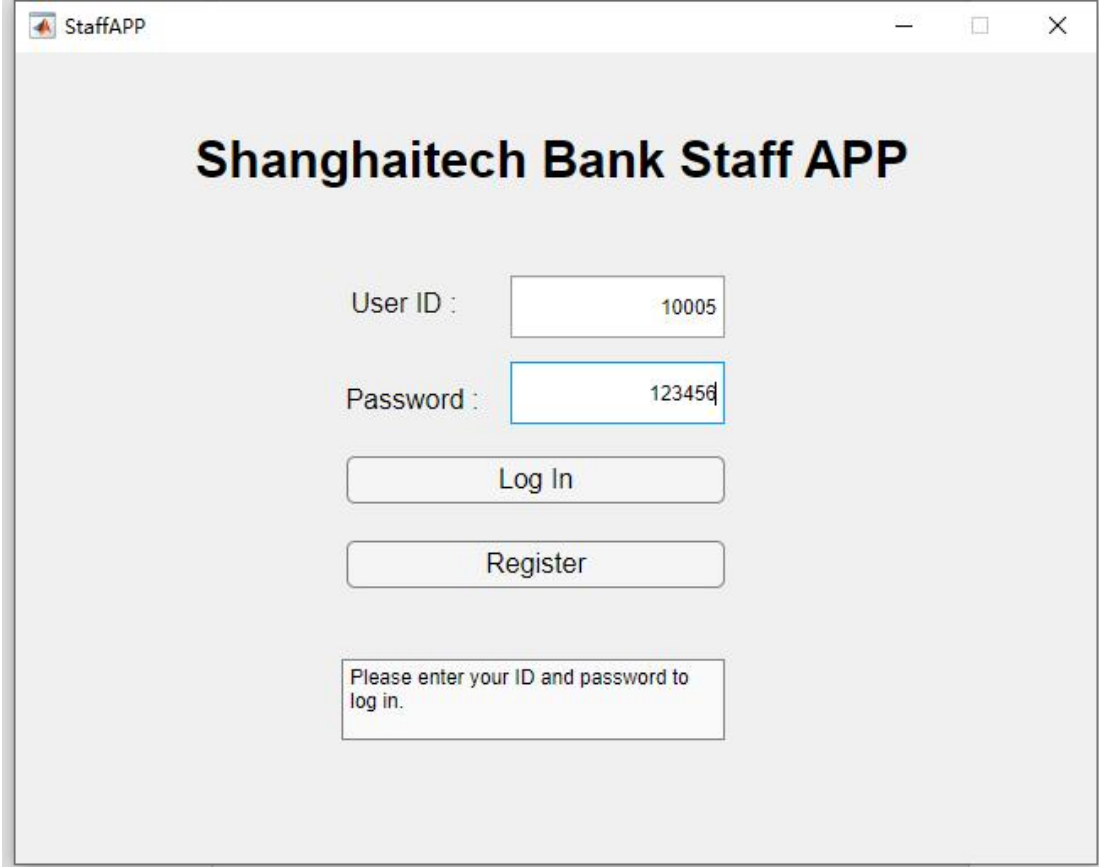
## **1.2.9 Log out**

Please refer to 1.1.6

## 2.1StaffApp

### 2.1.1 Log in

To log in the StaffApp, staff should enter the User ID and Password, and then press "Log in" button.



The screenshot shows a web application window titled "StaffAPP". The main heading is "Shanghaitech Bank Staff APP". Below the heading, there are two input fields: "User ID :" with the value "10005" and "Password :" with the value "123456". Below these fields are two buttons: "Log In" and "Register". At the bottom, there is a message box that says "Please enter your ID and password to log in."

Remember to enter correct User ID and Password, or the log in will fail

If you enter the wrong ID, the message box will show the following message.

Wrong ID! Try again!

If you enter the wrong password, the message box will show the following message.



Wrong Password! Try again!

## **2.1.2 Select transaction**

After you have successfully log in, you will see the following page.

The details of these operation will be specified from 2.1.3 to 2.1.7.

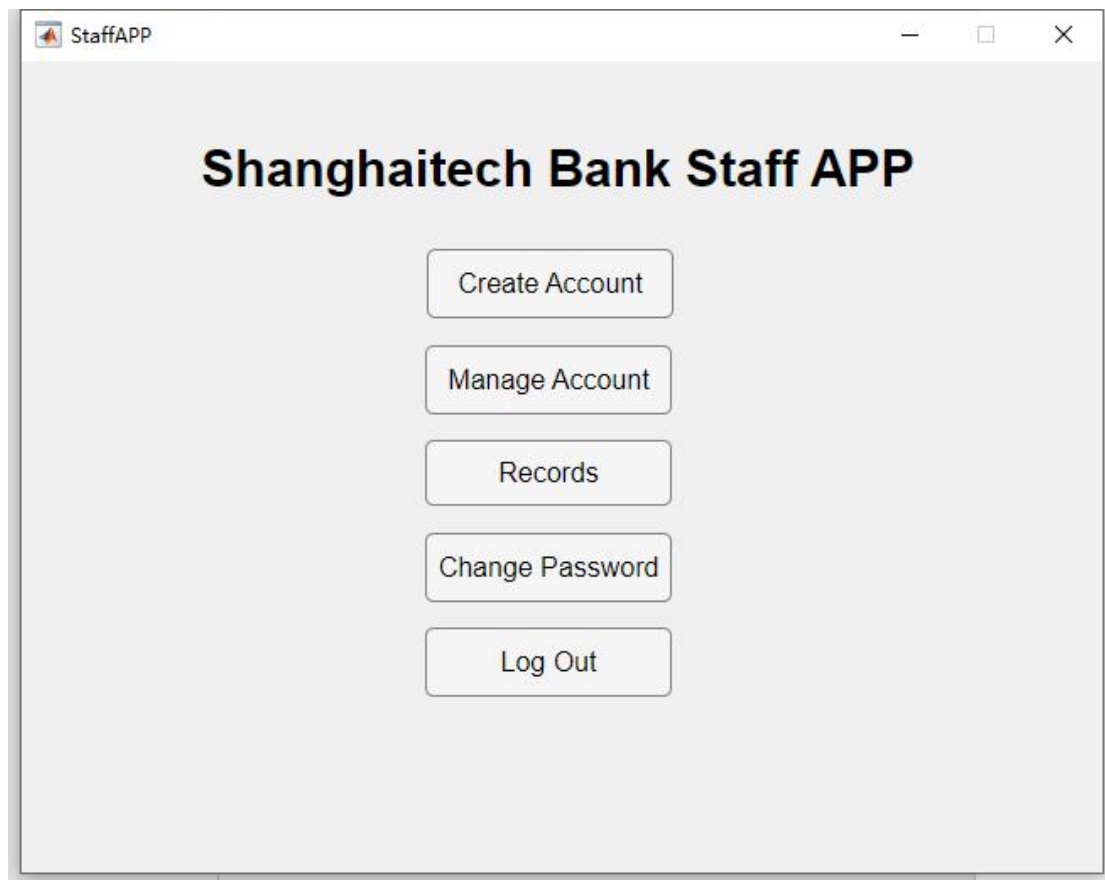
Press “create account” button to create new account with 6-bit PIN. See more detail in 2.1.3.

Press “manage account” button to open UI of Account. In the UI you can manage customer’s account. See more detail in 2.1.4

Press “Records” button to open UI of Records. In the UI you can search for operation record. See more detail in 2.1.5

Press “Change Password” to change the password. See more detail in 2.1.6

Press “Log out” to leave the current staff account. See more detail in 2.1.7



### 2.1.3 Create Account

After pressing "Create account" You will see the following thing.

A screenshot of the "Create Account" screen in the "StaffAPP". The heading is "Shanghaitech Bank Staff APP". Below the heading, there are three input fields: "Account :" with the value "100006", "PIN :" with the value "0", and "Repeat PIN :" with the value "0". Below these fields is a "Confirm" button. At the bottom, there is a text box containing the instruction "Please set your 6-bit PIN." and a "Return" button in the bottom right corner.

Enter the account and PIN. Then enter the same PIN the second time Finally press “confirm” button.

### **2.1.4 Manage account**

After pressing “Manage account” You will open a new UI Account.

See more detail in 2.2

### **2.1.5 Records**

After pressing “Records” You will open a new UI records.

See more detail in 2.3

### **2.1.6 Change Password**

The operation is very similar to change PIN.

Except PIN is for customer and password is for staff.


Please refer to 1.1.5

### **2.1.7 Log out**

Please refer to 1.1.6

## 2.2.1 Select transaction

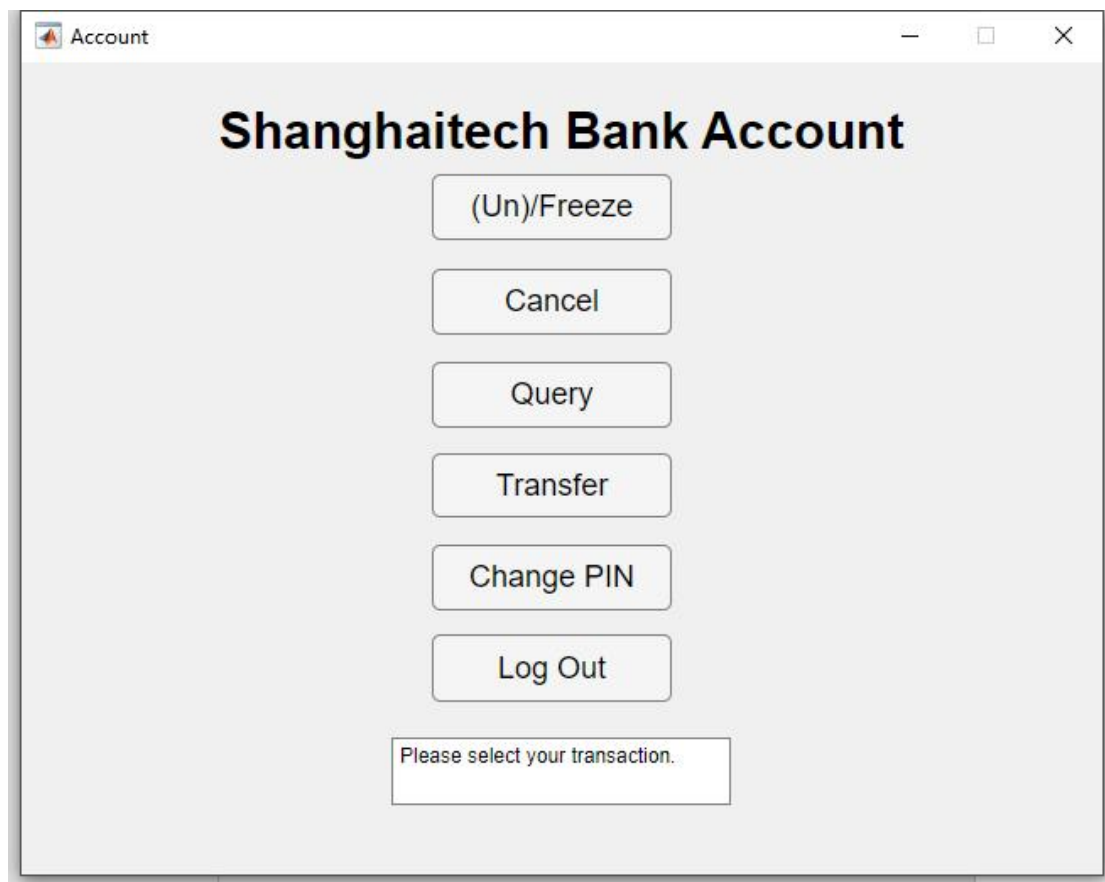
First enter the account and press “manage” button, you will enter that account.



The screenshot shows a window titled "Account" with standard Windows window controls (minimize, maximize, close). The main heading is "Shanghaitech Bank Account". Below it, a message says "Please enter the account you want to manage." There is a text input field labeled "Account :" containing the number "100005". Below the input field is a button labeled "Manage". At the bottom right is a button labeled "Return". A small error message box is visible below the "Manage" button, containing the text "Please enter the account you want to manage."

Then you will see the following select transaction page

See more detail form 2.2.2 to 2.2.8



### 2.2.2 Freeze

If the account is not freezed, press the “(Un)/Freeze” to freeze it.

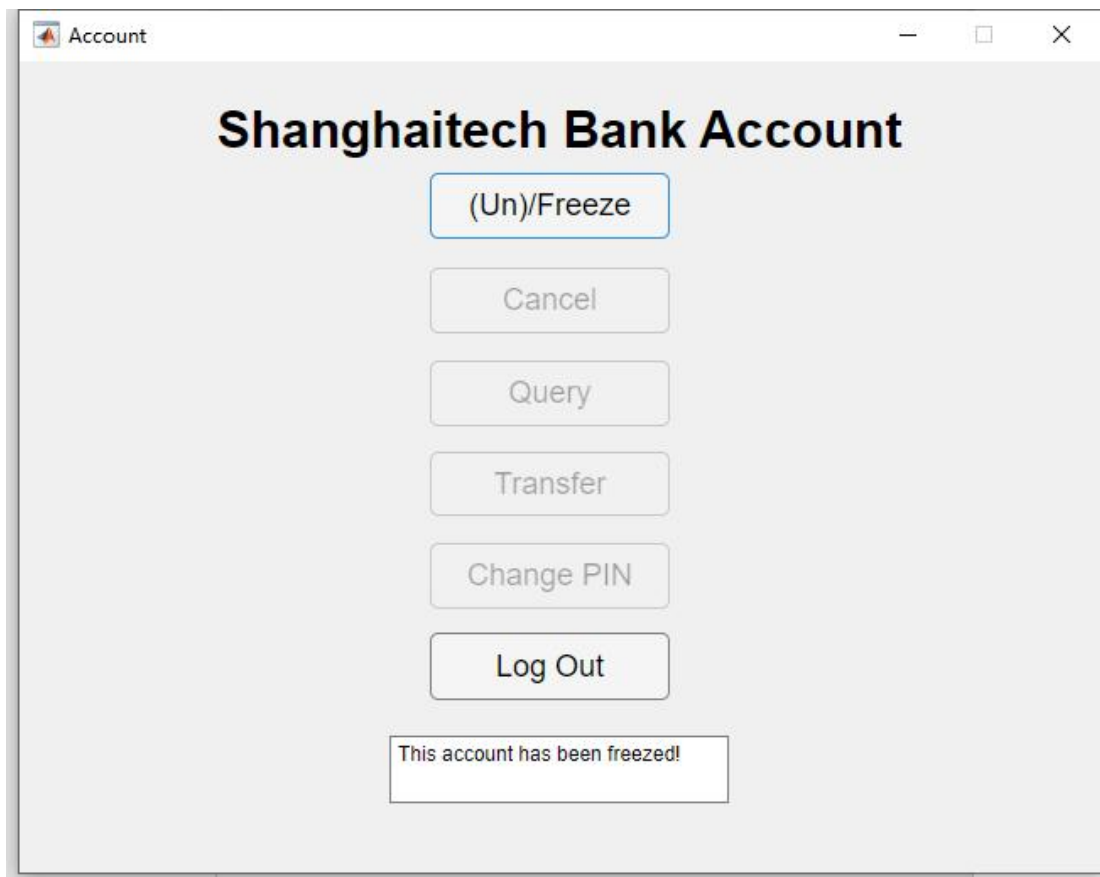
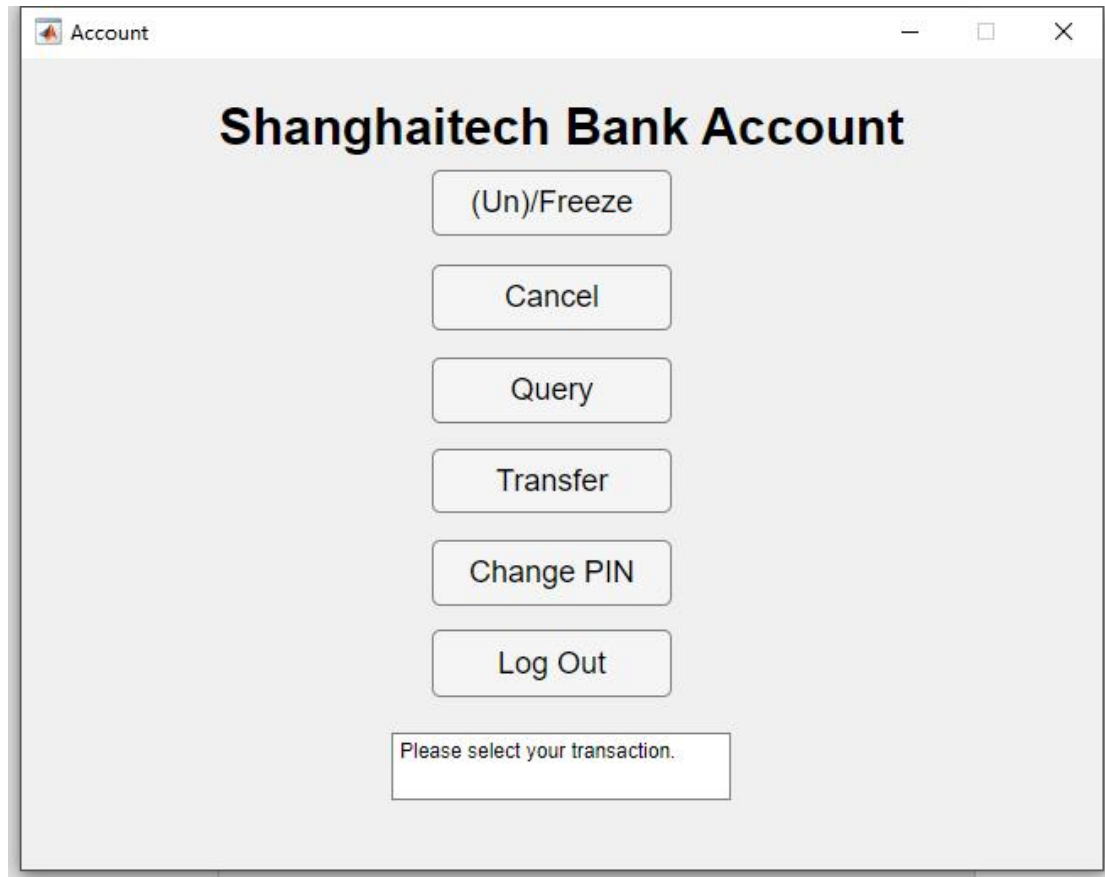
Freeze means the account will not be able to do any operation.

### 2.2.2 Unfreeze

If the account is freezed, press the “(Un)/Freeze” to unfreeze it.

Unfreeze means the account will be able to do any operation.

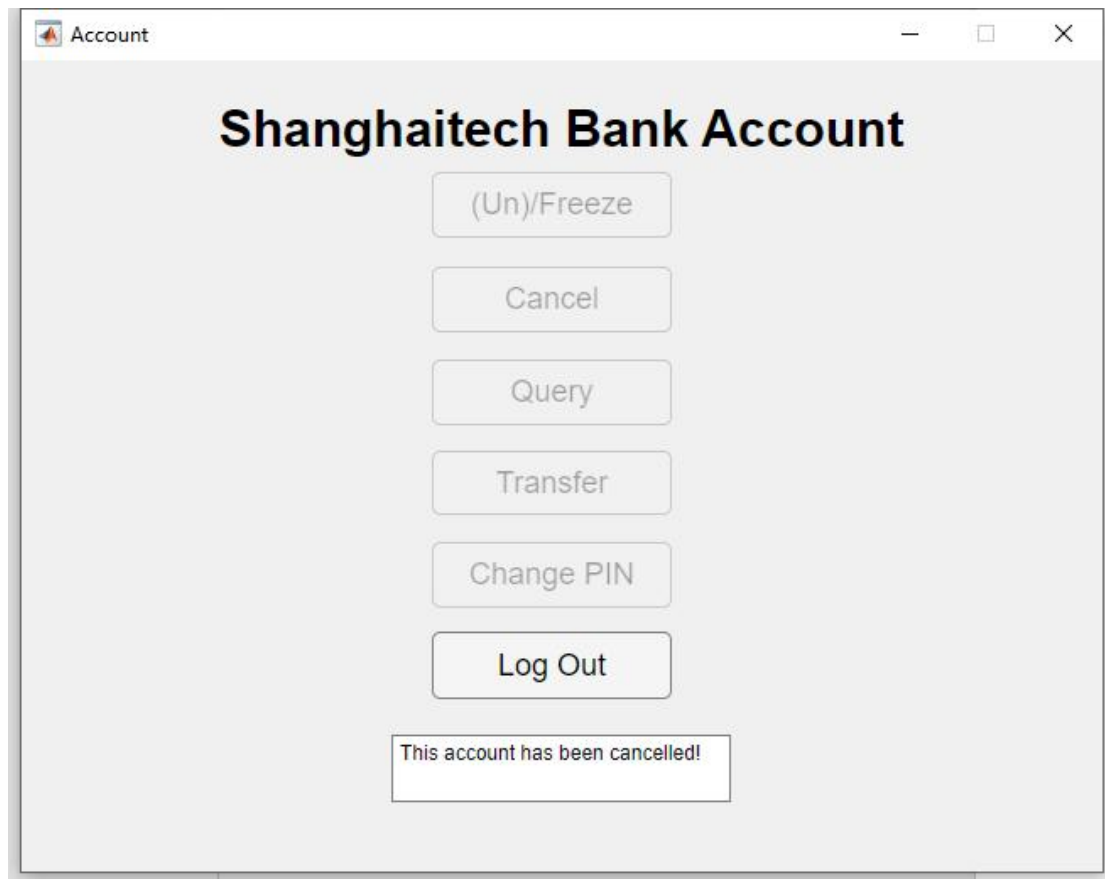
The following are situation of not freezed and freezed.





## 2.2.4 Cancel

Press "cancel" button to cancel an account, the account will be permanently destroyed and no longer able to do any operation.



## 2.2.5 Query

Please refer to 1.1.3

## 2.2.6 Transfer

Please refer to 1.1.4

## **2.2.7 Change PIN**

Please refer to 1.1.5

## **2.2.8 Log out**

Please refer to 1.1.6

## 2.3Record

### 2.3.1 search record with account

After successfully enter the result, you will see the following thing.

Enter account and then press “Query” button, you will get the record of this account.

In this case we searched account 100000.

The screenshot shows a window titled "Records" with a search interface on the left and a table of results on the right. The search interface includes an "Account:" label with a text box containing "100000", a "Query" button, an "Operation:" label with a dropdown menu set to "Deposit", and another "Query" button. Below these are "Refresh" and "Return" buttons. The table displays the following data:

Account	Operation	Amount	Account1
100000	D	100	0
100000	W	1000	0
100000	T	50	100001
100000	T	50	100001
100000	W	100	0
100000	D	1000	0
100000	T	100	100001
100000	W	1000	0
100000	W	100	0
100000	D	100	0
100000	D	100	0
100000	W	100	0
100000	D	100	0

### 2.3.2 search record with operation

Select operation and then press “Query” button, you will get the record of this type.

In this case we searched operation D(deposit)

The image shows a software window titled "Records" with a table of account operations. On the left, there are input fields for "Account:" (containing "100000") and "Operation:" (a dropdown menu set to "Deposit"). Each input field has a "Query" button next to it. Below the table, there is a "Refresh" button. In the bottom right corner, there is a "Return" button. The table has four columns: "Account", "Operation", "Amount", and "Account1". It displays 15 rows of data, all with "D" as the operation.

Account	Operation	Amount	Account1
100000	D	100	0
100001	D	100	0
100000	D	1000	0
100000	D	100	0
100000	D	100	0
100000	D	100	0
100001	D	100	0
100005	D	100	0
100004	D	100	0
100003	D	300	0
100003	D	200	0
100003	D	200	0
100003	D	200	0
100003	D	200	0
100003	D	200	0

## 2.3.3 refresh

Press "refresh" button, the data will be renewed.