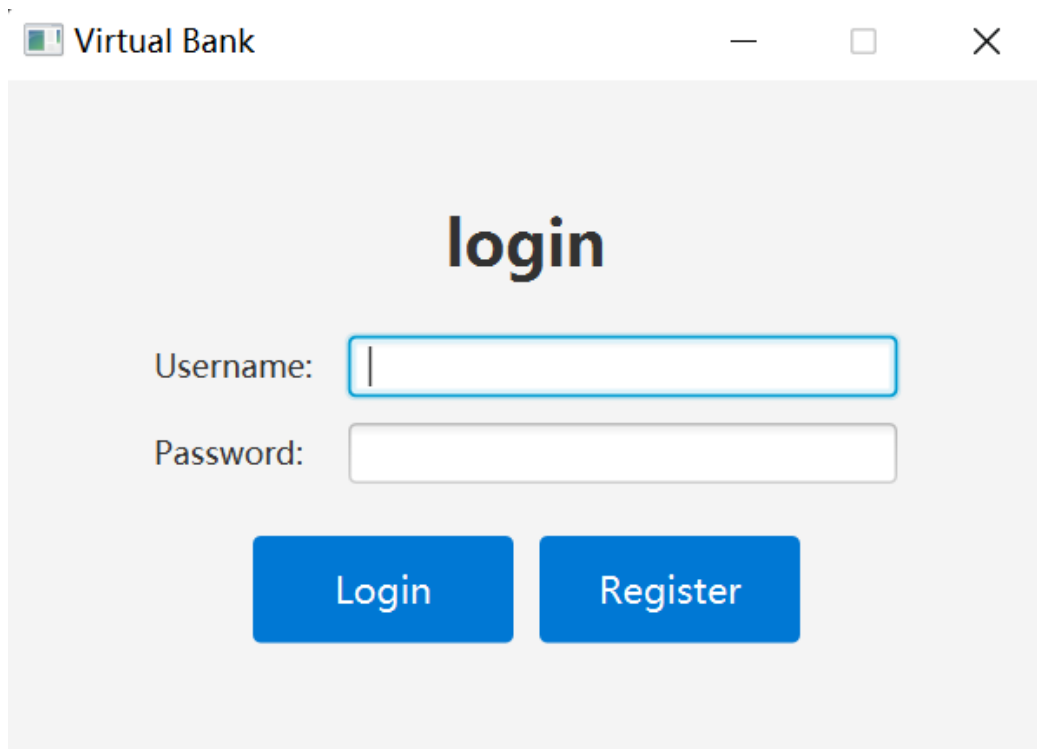


# User Manual

of Virtual Bank Application for Kids

## 1. Login Page

A screenshot of a web browser window titled "Virtual Bank". The page has a light gray background and features the word "login" in a large, bold, black font. Below the title, there are two input fields: "Username:" and "Password:". The "Username:" field is highlighted with a blue border. Below the input fields, there are two blue buttons: "Login" and "Register".

Virtual Bank

login

Username:

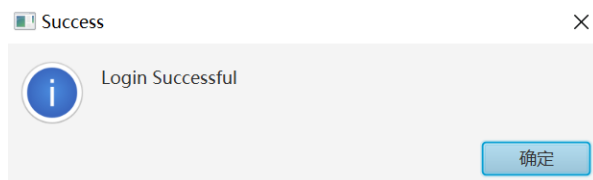
Password:

Login Register

### 1.1 Login

#### 1.1.1 Customer and Employee Login

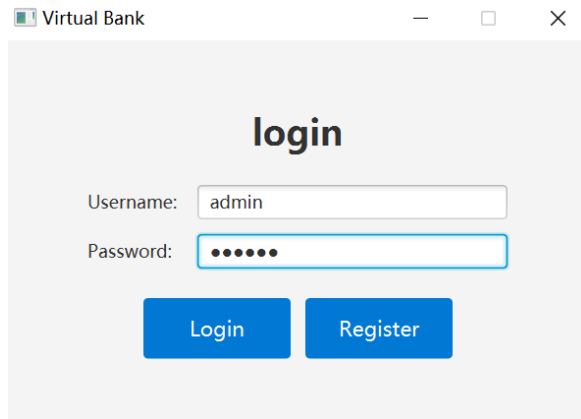
Enter username and password correctly, click "Login".



#### 1.1.2 Administrator login

Username: admin

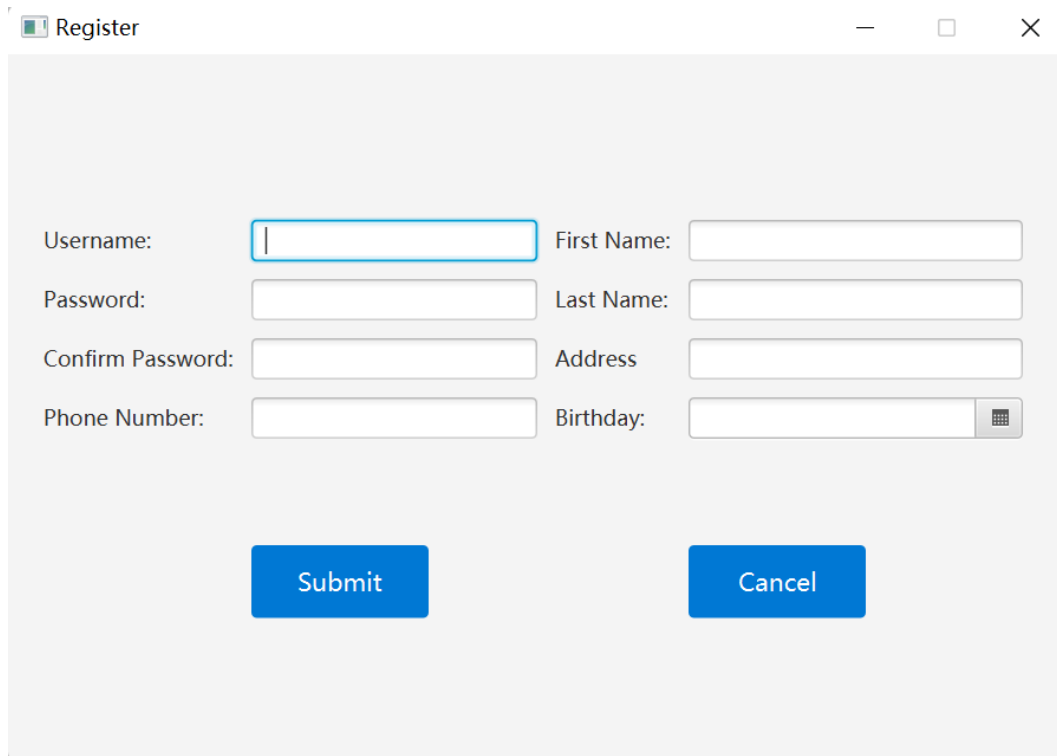
Password: 123456



The screenshot shows a window titled "Virtual Bank" with standard window controls (minimize, maximize, close). The main heading is "login". Below it, there are two input fields: "Username:" with the text "admin" and "Password:" with six dots. At the bottom, there are two blue buttons: "Login" and "Register".

## 1.2 Register

Input basic information and click "Submit" for your registration in the Virtual Bank.

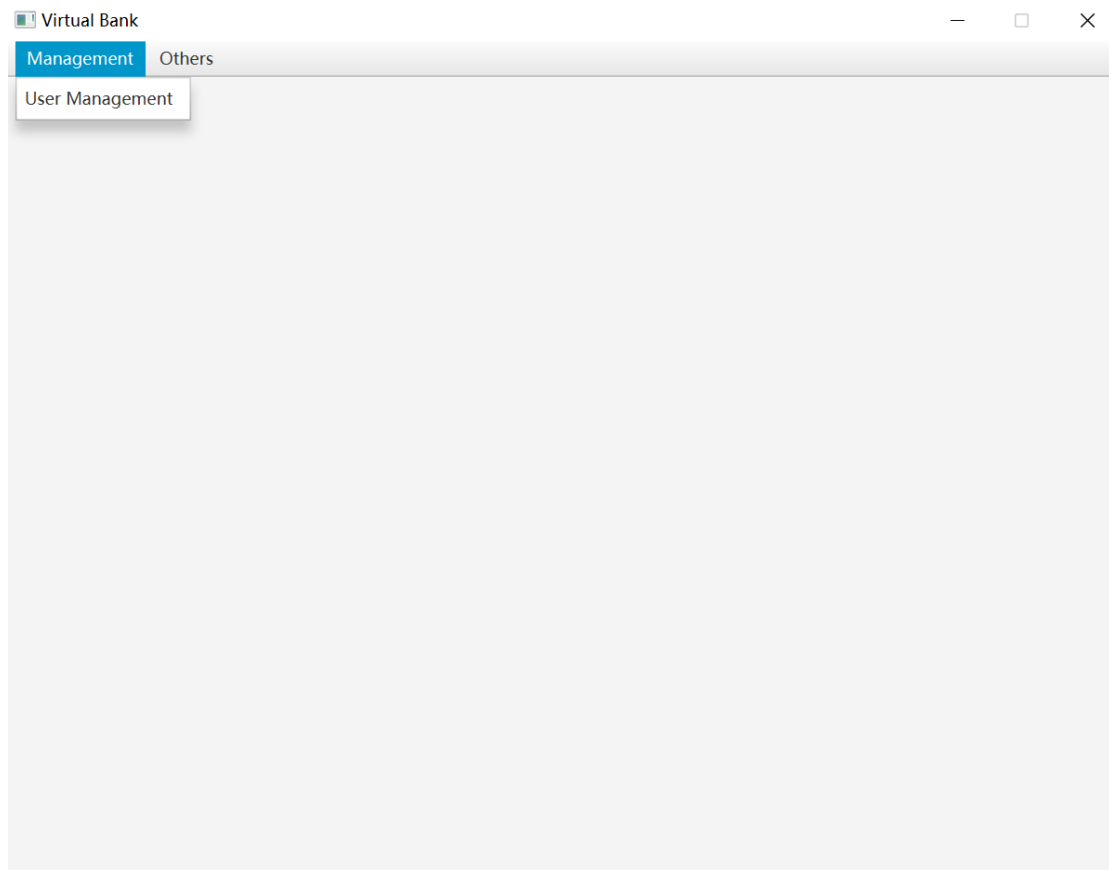


The screenshot shows a window titled "Register" with standard window controls (minimize, maximize, close). The form contains several input fields arranged in two columns. The left column has: "Username:" (empty), "Password:" (empty), "Confirm Password:" (empty), and "Phone Number:" (empty). The right column has: "First Name:" (empty), "Last Name:" (empty), "Address" (empty), and "Birthday:" (empty with a calendar icon). At the bottom, there are two blue buttons: "Submit" and "Cancel".

## 2. Main Page

### 2.1 Administrator

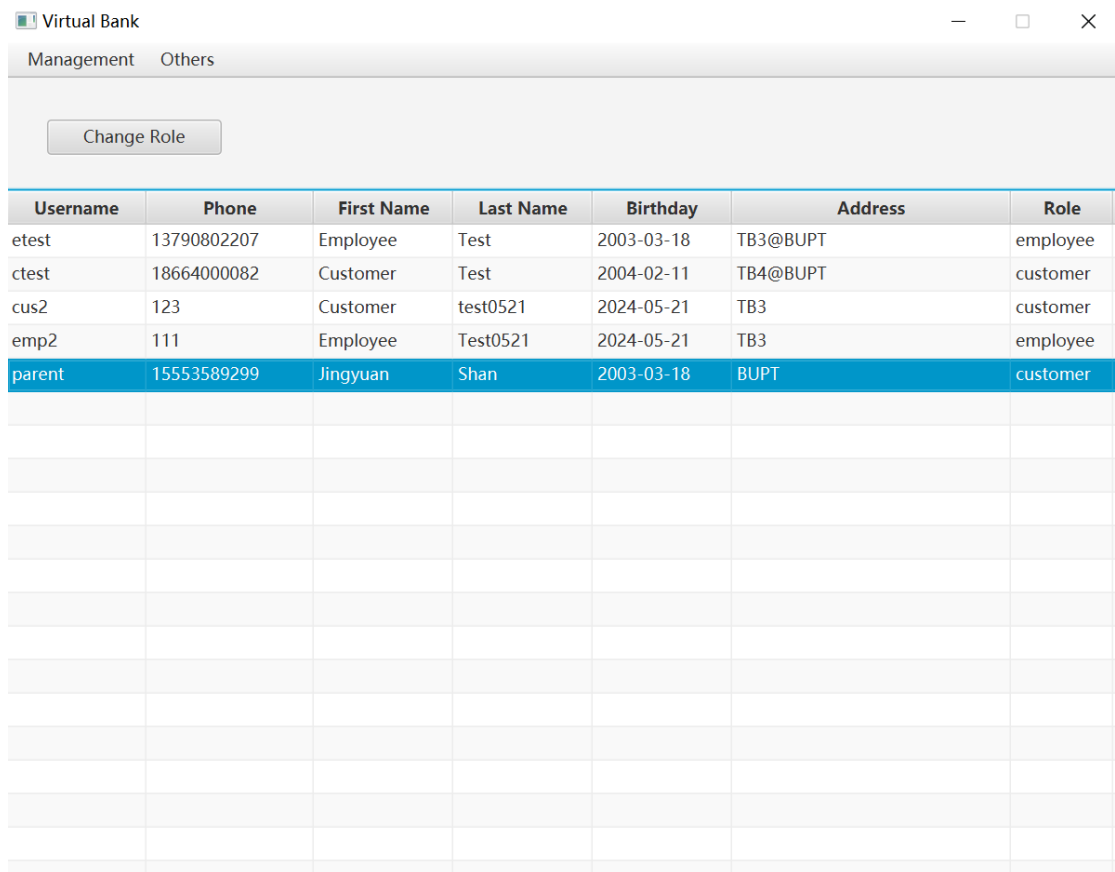
#### 2.1.1 Management



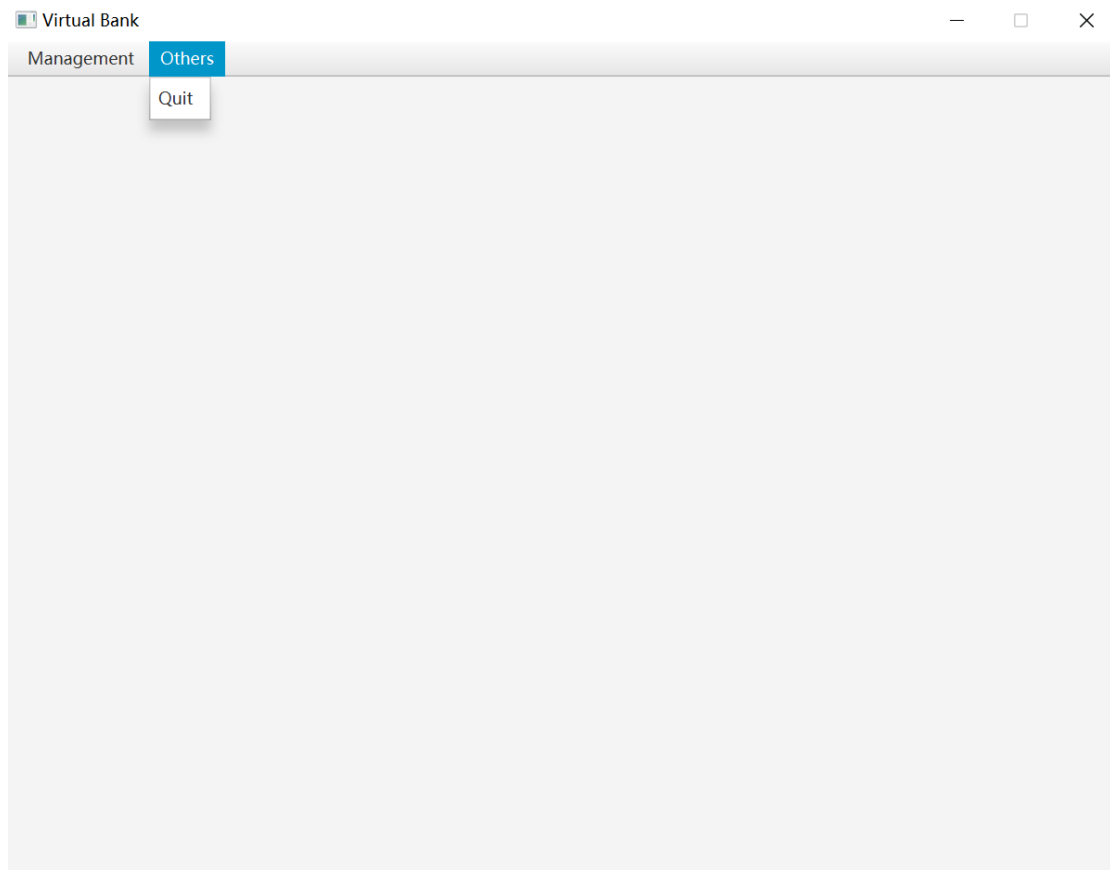
### a) User Management

Select one user and click "Change Role" to alter the role of the user.

Ideally, customers correspond to kids and employees at bank counters correspond to parents who have more access to the system, such as to withdraw money or publish a task.

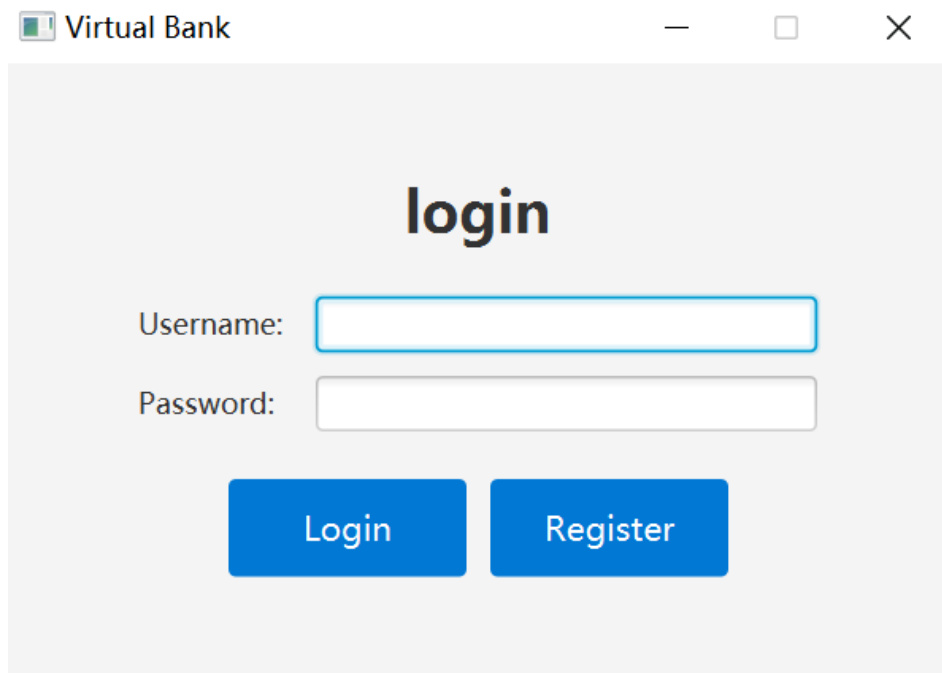


### 2.1.2 Others



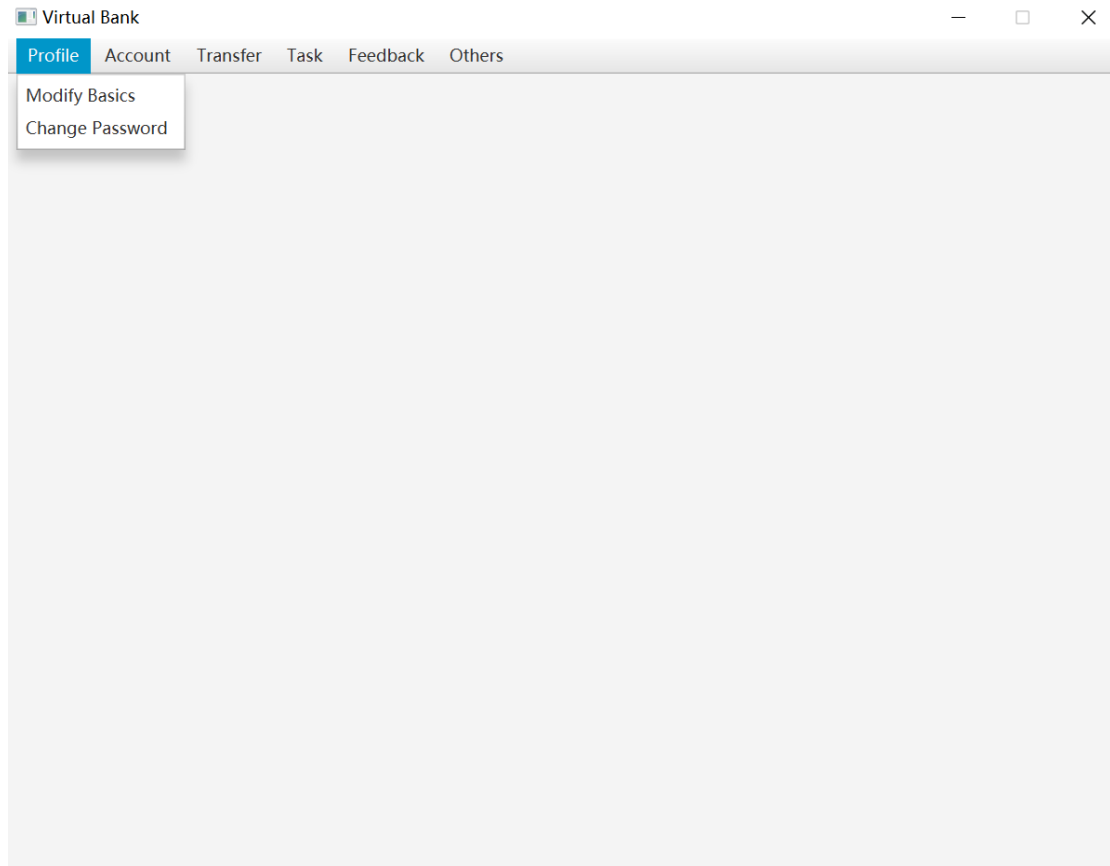
#### a) Quit

Click "Quit" to return to the Login Page.



## 2.2 Customer (Kid)

### 2.2.1 Profile



#### a) Modify Basics

Modify the basic information of users.

Virtual Bank

ProfileAccountTransferTaskFeedbackOthers

Username:

kid1

First Name:

JY

Last Name:

S

Address

BUPT

Phone Number:

15553589299

Birthday:

2024/5/24

Submit

## b) Change Password

Virtual Bank

ProfileAccountTransferTaskFeedbackOthers

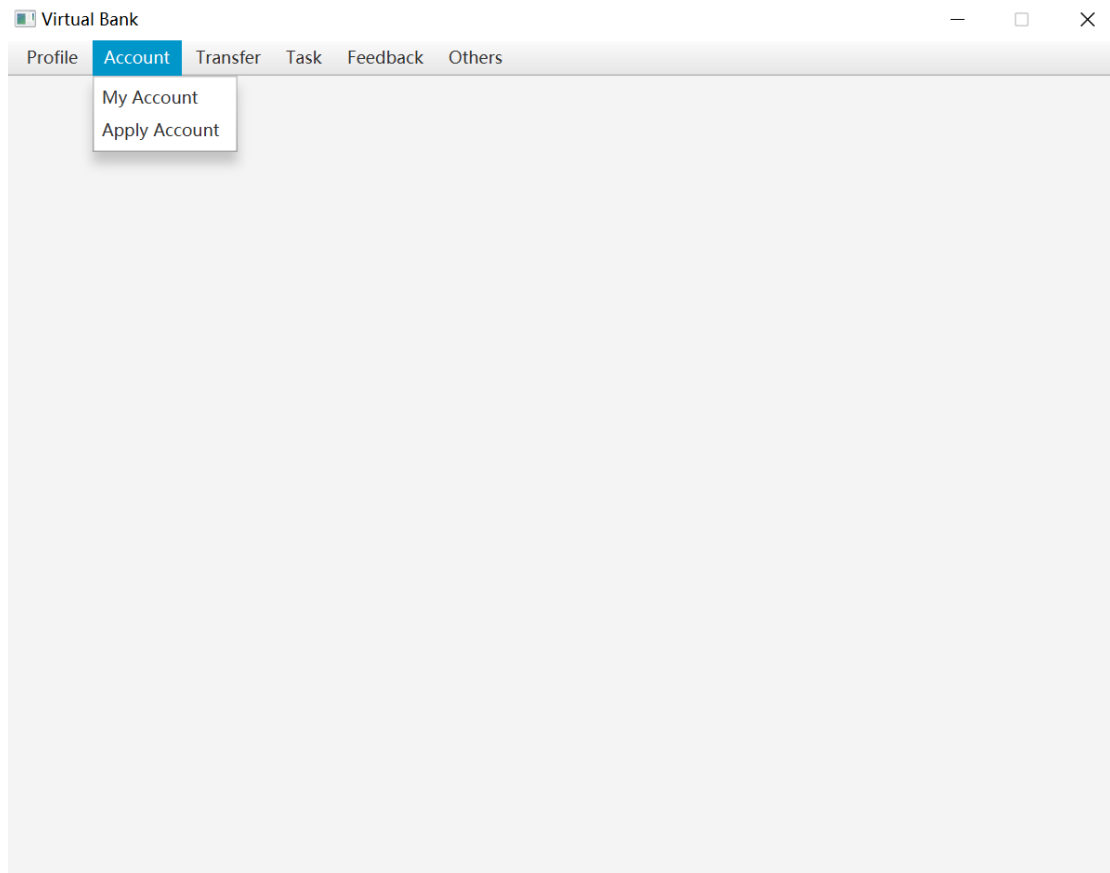
Old Password:

New Password:

Confirm New Password:

Submit

## 2.2.2 Account



### a) My Account

This page displays basic information about the account, such as the type, balance, status, and goals.



Virtual Bank

ProfileAccountTransferTaskFeedbackOthers

Account Number: 1259531985541700

Type: Saving Account

Balance(\$): 0.0

Status: normal

Progress: 0.00%    Goal(\$): 10000

Close Account

Change Password

Account Number: 1109228027240200

Type: Current Account

Balance(\$): 1000.0

Status: normal

Progress: 20.00%    Goal(\$): 5000

Close Account

Change Password

User can manually close an account when its balance is zero.

Success

i

Close Successful

确定

The password of the account can be changed with confirmation and format review.

Current Account Change Password

Old Password:

.....

New Password:

.....

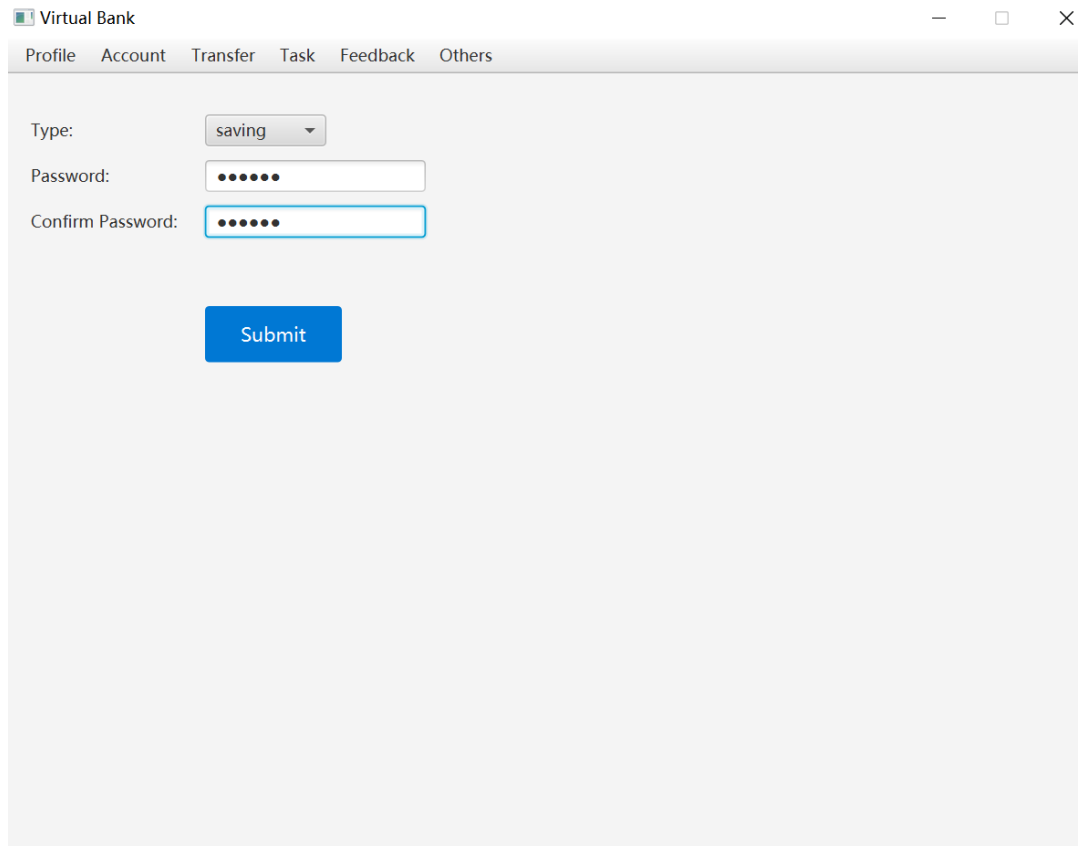
Confirm New Password:

.....

Submit

## b) Apply Account

There are two types of accounts (current account and saving account). Users can apply at most one for each. Choose the type of account and set a 6-digit password to submit an application to the employee.



The screenshot shows a web application window titled "Virtual Bank". The window has a navigation bar with links: Profile, Account, Transfer, Task, Feedback, and Others. The main content area is a form for applying for an account. It includes a "Type:" label with a dropdown menu currently set to "saving". Below this are two password fields: "Password:" and "Confirm Password:", both containing six dots to represent masked characters. A blue "Submit" button is positioned below the password fields.

Virtual Bank

Profile Account Transfer Task Feedback Others

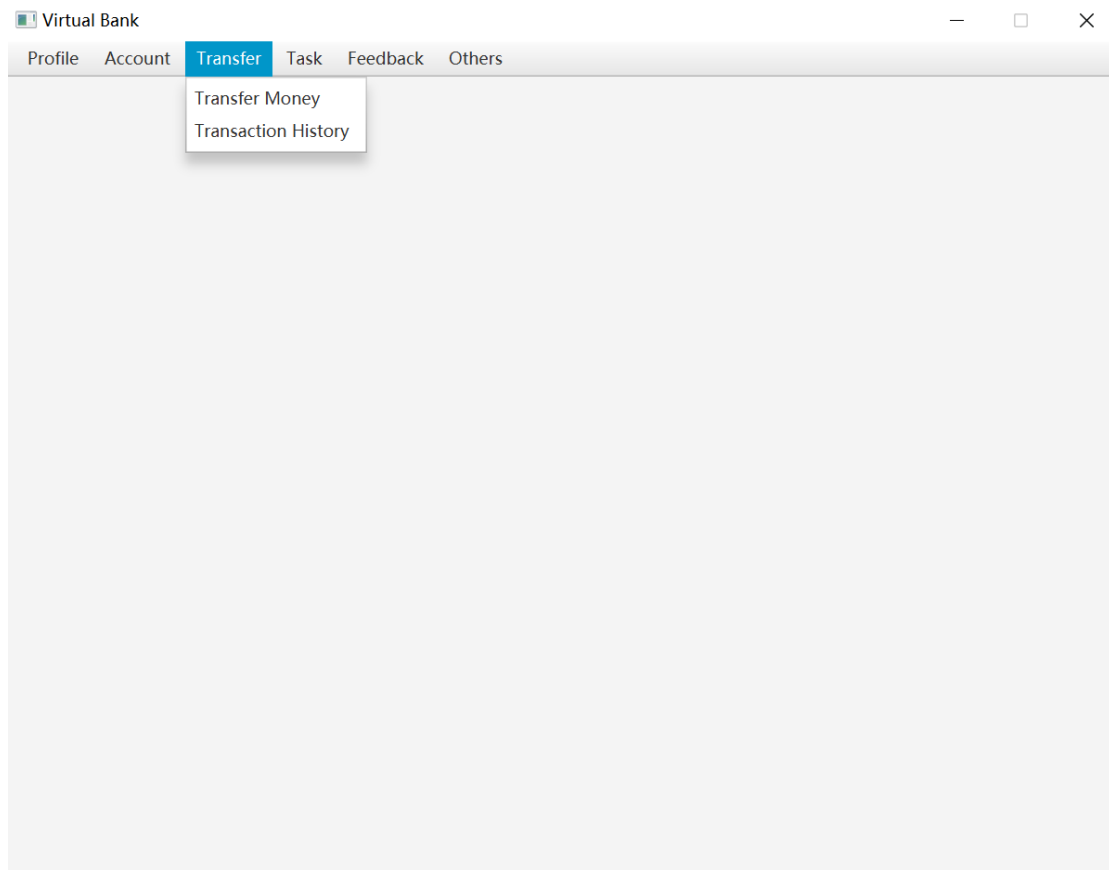
Type: saving

Password: ●●●●●●

Confirm Password: ●●●●●●

Submit

## 2.2.3 Transfer



#### **a) Transfer Money**

Choose a payer account, input the amount of money to be transferred, input the payee's amount number, and enter the correct password.

Virtual Bank

ProfileAccountTransferTaskFeedbackOthers

Payer:

1270653876329800

Amount(\$):

1000

Payee:

1270651271994300

Password:

•••••

Confirm

Click “Confirm” to transfer.

Success

i

Transfer Successful

确定

No transfers can be made from frozen accounts.

Error

×

Account has been frozen.

确定

## b) Transaction History

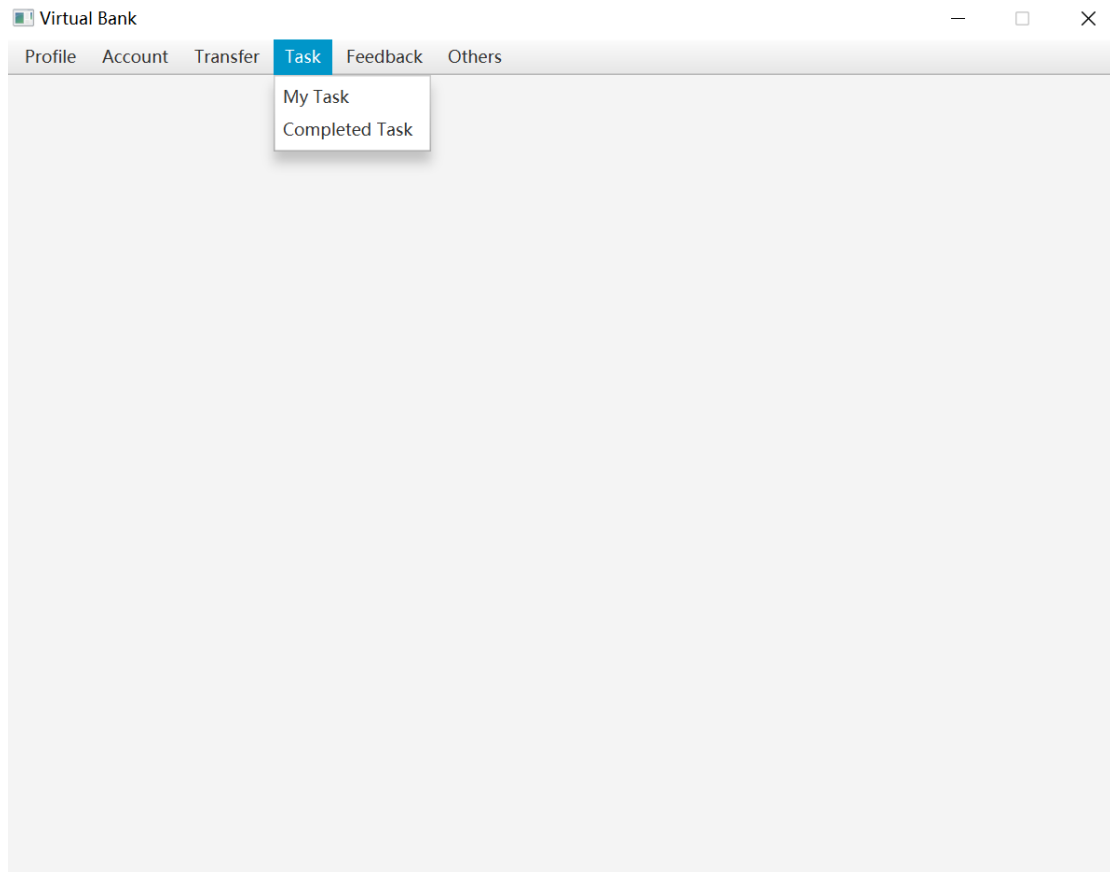
All transactions can be viewed by user here, including transfer records, rewards for completing tasks, and interest settlements.

Virtual Bank

ProfileAccountTransferTaskFeedbackOthers

Account Number	Amount	Type	Time
1270653876329800	-2000.0	transfer	2024-05-26 15:48:45
1270651271994300	+200.0	interest	2024-05-26 15:56:04
1270653876329800	+1000.0	reward	2024-05-26 16:00:27

2.2.4 Task



### a) My Task

All tasks assigned to the kid can be seen here. Choose one task and click "Complete" to submit for parents to review.

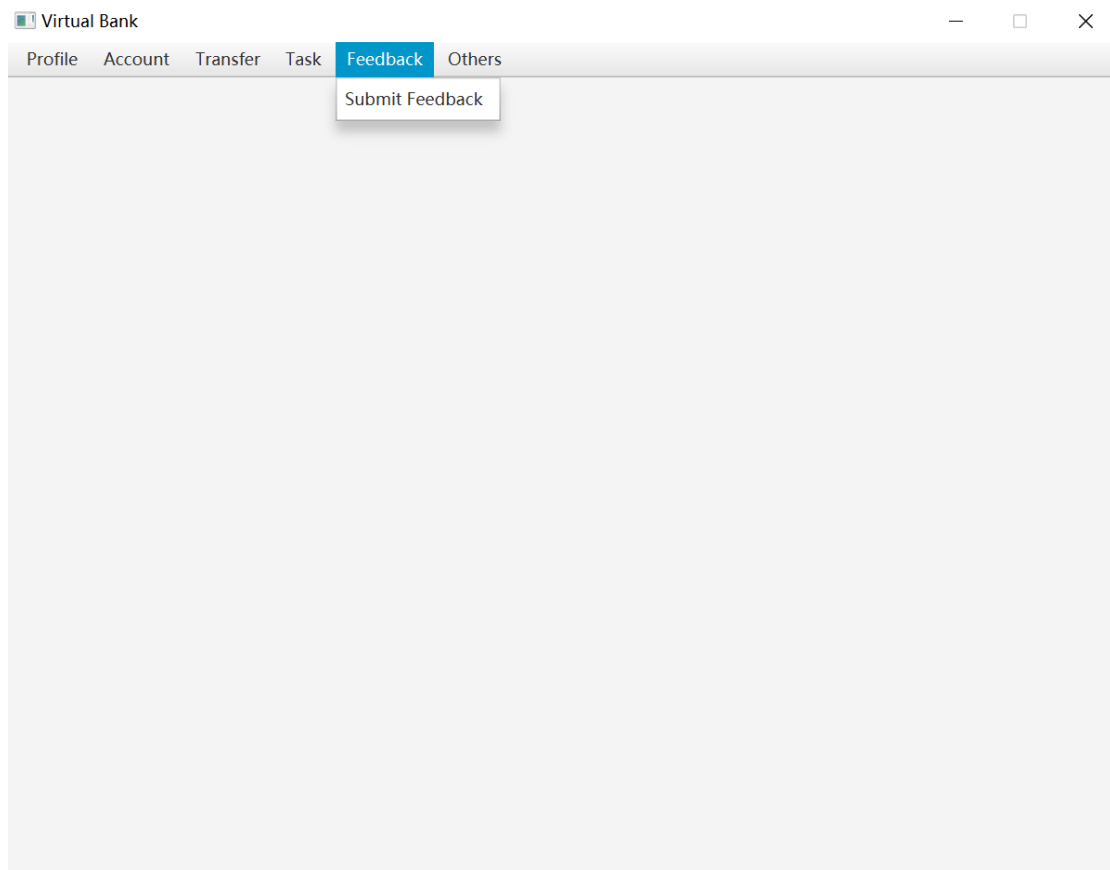
Before picking up a task, the kid must open a current account first in order to receive the corresponding reward when the task is passed by parents.



Virtual Bank			
Profile Account Transfer Task Feedback Others			
ID	Description	Status	Reward
ed86b351-c746-4c4a-aaf0-10e3e5dcf337	Sweep the floor.	pass	1000.0
731a61d7-43c8-47eb-a1d5-ce3e57abb9e2	Clean the Windows	completed	500.0
dc6240d7-2669-4571-99de-3a7366e14fdb	Do the Dishes	reject	500.0

## 2.2.5 Feedback





**a) Submit Feedback**

Feedback can be submitted to the employee to be reviewed.

Virtual Bank

—

□

×

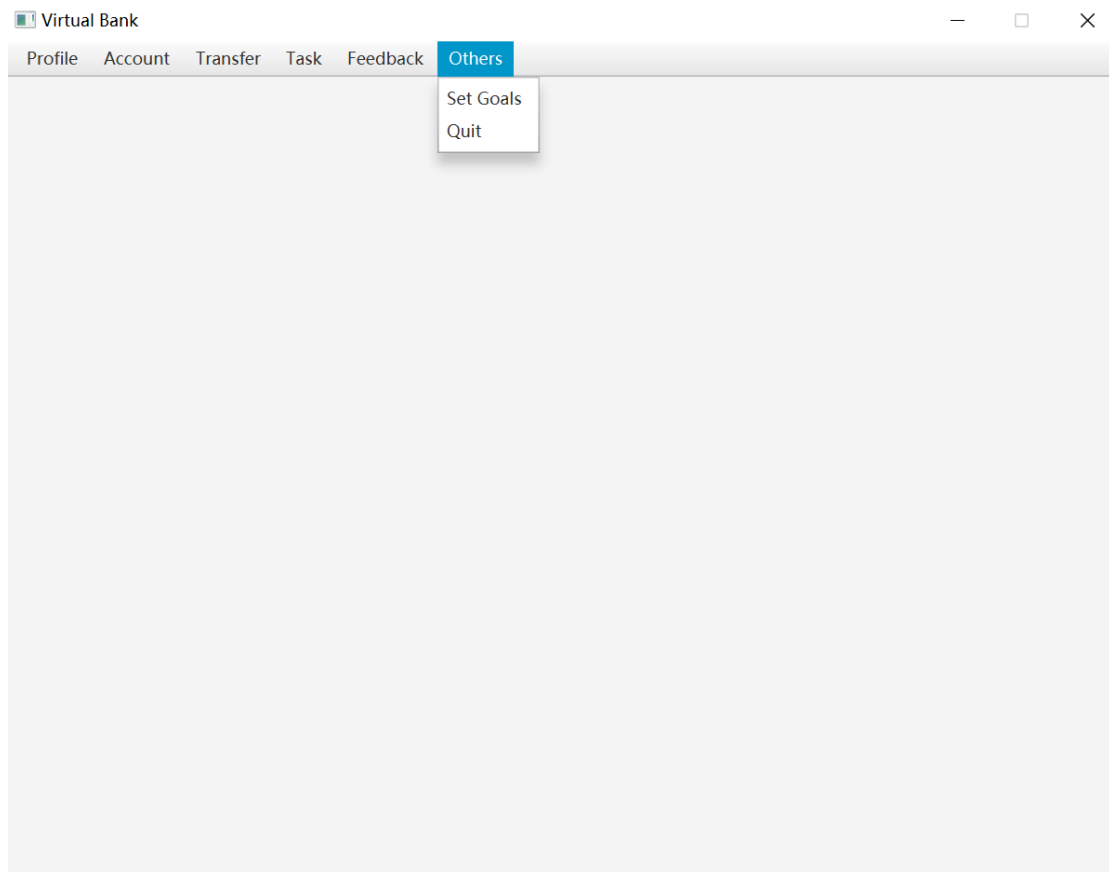
ProfileAccountTransferTaskFeedbackOthers

Content:

This feedback is to be demonstrated in the user manual.

Submit

## 2.2.6 Others



#### a) Set Goals

Input valid numbers here to set goals for different accounts. Progress bars can be viewed on "My Account" page.

Virtual Bank

—

□

×

ProfileAccountTransferTaskFeedbackOthers

Saving Account Goal(\$):

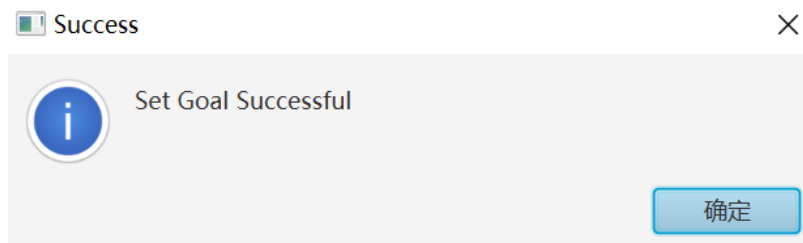
10000

Current Account Goal(\$):

5000

Submit

Click “Submit” to set goals for your accounts’ balance.

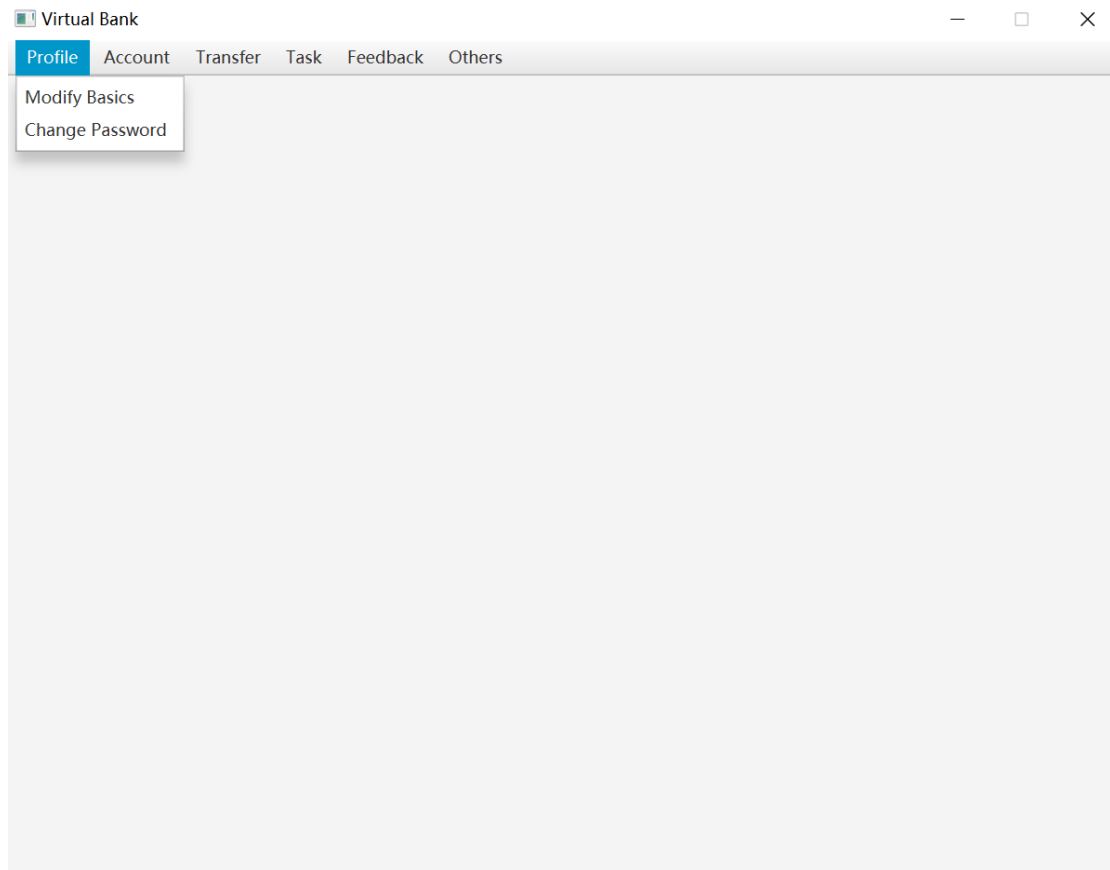


## b) Quit

Go back to main page by clicking “Quit”.

## 2.3 Employee (Parent)

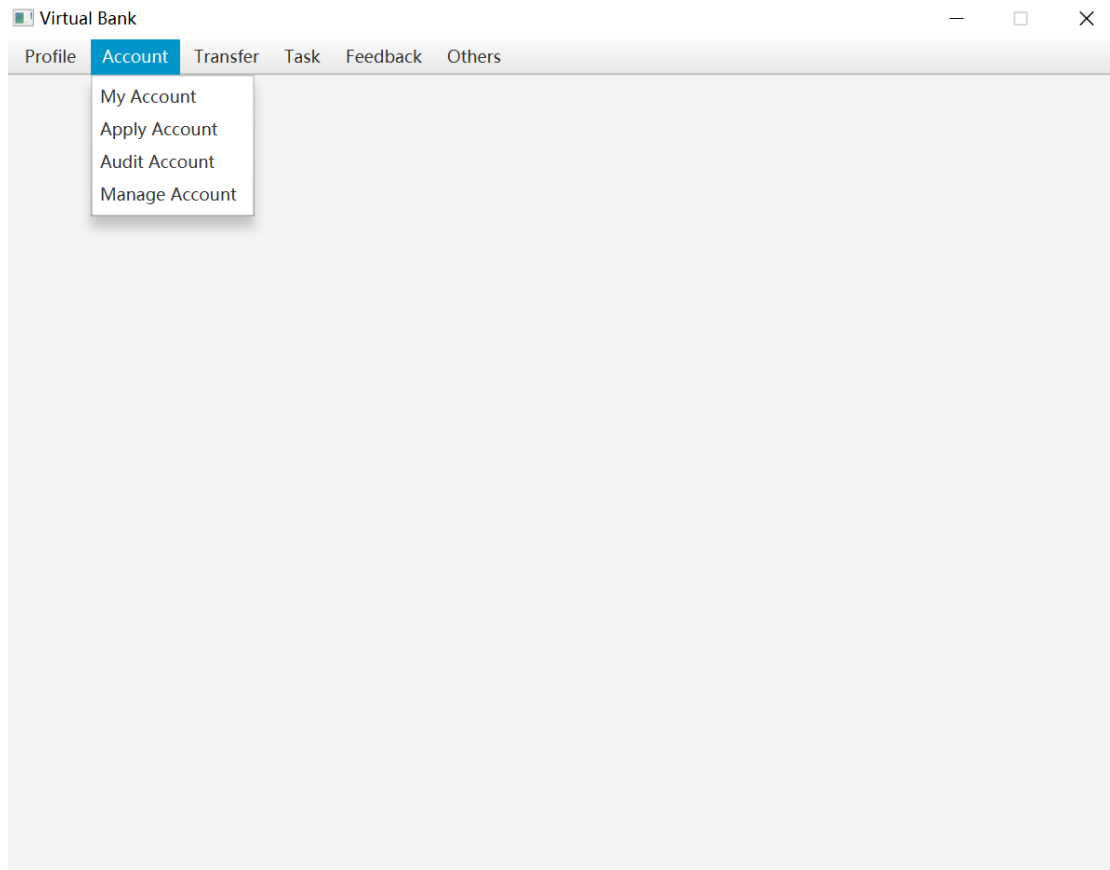
### 2.3.1 Profile



a) **Modify Basics**

b) **Change Password**

### **2.3.2 Account**



**a) My Account**

**b) Apply Account**

**c) Audit Account**

Choose one account application record to pass or reject.

Virtual Bank

Profile

Account

Transfer

Task

Feedback

Others

Pass

Refuse

Username	Type	Time
kid2	saving	2024-05-26 15:20:53
kid2	current	2024-05-26 15:20:57

d) Manage Account

Press the “Save” button to save money in the selected account.

Save Money

×

Please input the amount of money you want to save.

Amount(\$):

确定

取消

Virtual Bank

Profile

Account

Transfer

Task

Feedback

Others

Save

Withdraw

Freeze

Thaw

Settle

Account Number	Username	Type	Balance(\$)	Status
266536276628600	111	current	2000.0	normal
267327465287800	ctest			normal
267330077051799	ctest			frozen
268282506645200	111			normal
268454994392100	etest			normal
837050940655600	cus2			frozen
837054292615800	cus2	current	1000.0	normal
837057967114000	emp2	current	10.0	normal
1108969920327500	Ee	saving	15000.0	frozen
1108983733410400	Ee	current	0.0	normal
1109228027240200	kid1	current	1000.0	normal
1270651271994300	kid2	saving	0.0	normal
1270653876329800	kid2	current	1000.0	normal

Success

Save Successful

确定

Press the “Withdraw” button to withdraw money from the selected account, where the amount should be no more than the account balance.

WithDraw Money

Please input the amount of money you want to withdraw.

Amount(\$):

确定

取消

Select an account in normal status and click “Freeze” to freeze the account.

The transfer service is banned when the status of the payer account is frozen.





Click “Settle” button to settle interest once at the interest rate, which is applicable only to the saving accounts.

Virtual Bank

Profile

Account

Transfer

Task

Feedback

Others

Save

Withdraw

Freeze

Thaw

Settle

Account Number	Username	Type	Balance(\$)	Status
266536276628600	111	current	2000.0	normal
267327465287800	ctest	saving	17118.71	frozen
267330077051799	ctest	current	-500.0	frozen
268282506645200				normal
268454994392100				normal
837050940655600				frozen
837054292615800				normal
837057967114000				normal
1108969920327500	Ee	saving	16500.0	frozen
1108983733410400	Ee	current	0.0	normal
1109228027240200	kid1	current	1000.0	normal
1270651271994300	kid2	saving	0.0	normal
1270653876329800	kid2	current	2000.0	normal

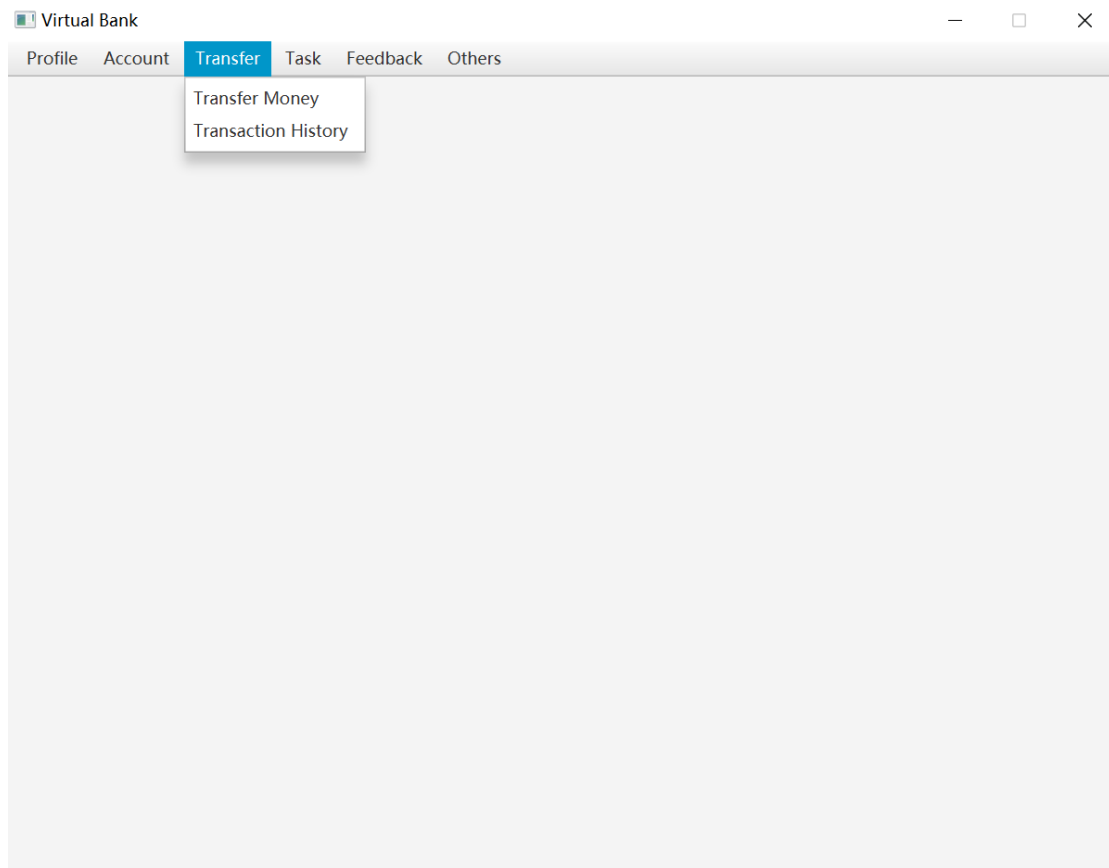
Success

i

Interest Settle Successful

确定

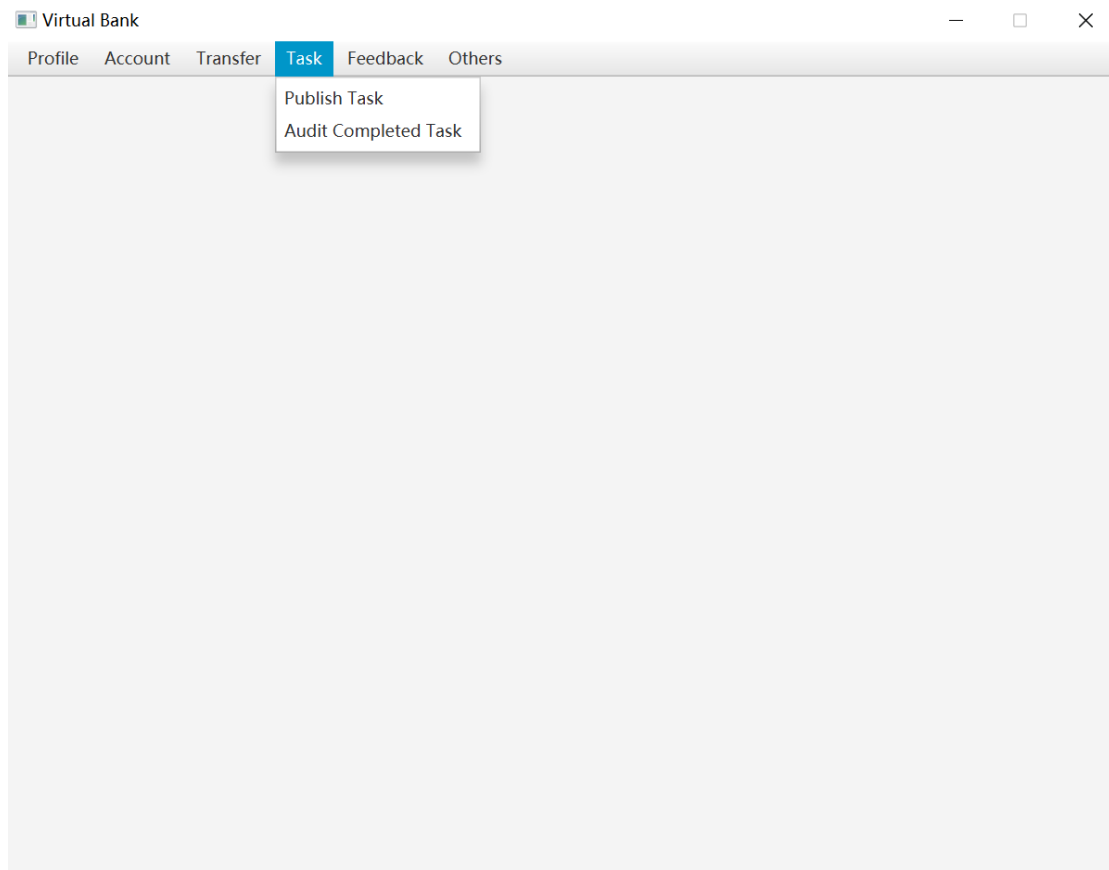
2.3.3 Transfer



a) Transfer Money

b) Transaction History

#### 2.3.4 Task



#### **a) Publish Task**

Write the task description in the text field, choose a due date, set a reward, and choose receivers from the customer list.

Virtual Bank

—

□

×

ProfileAccountTransferTaskFeedbackOthers

Description:

Do the Dishes

Due Date:

2024/5/26

Reward(\$):

500

Receiver:

☐ ctest

☐ cus2

☒ kid1

☒ kid2

Publish

## b) Audit Completed Task

When a completed task is passed by the employee, the corresponding reward will be credited to the current account of the customer.

Virtual Bank

Profile

Account

Transfer

Task

Feedback

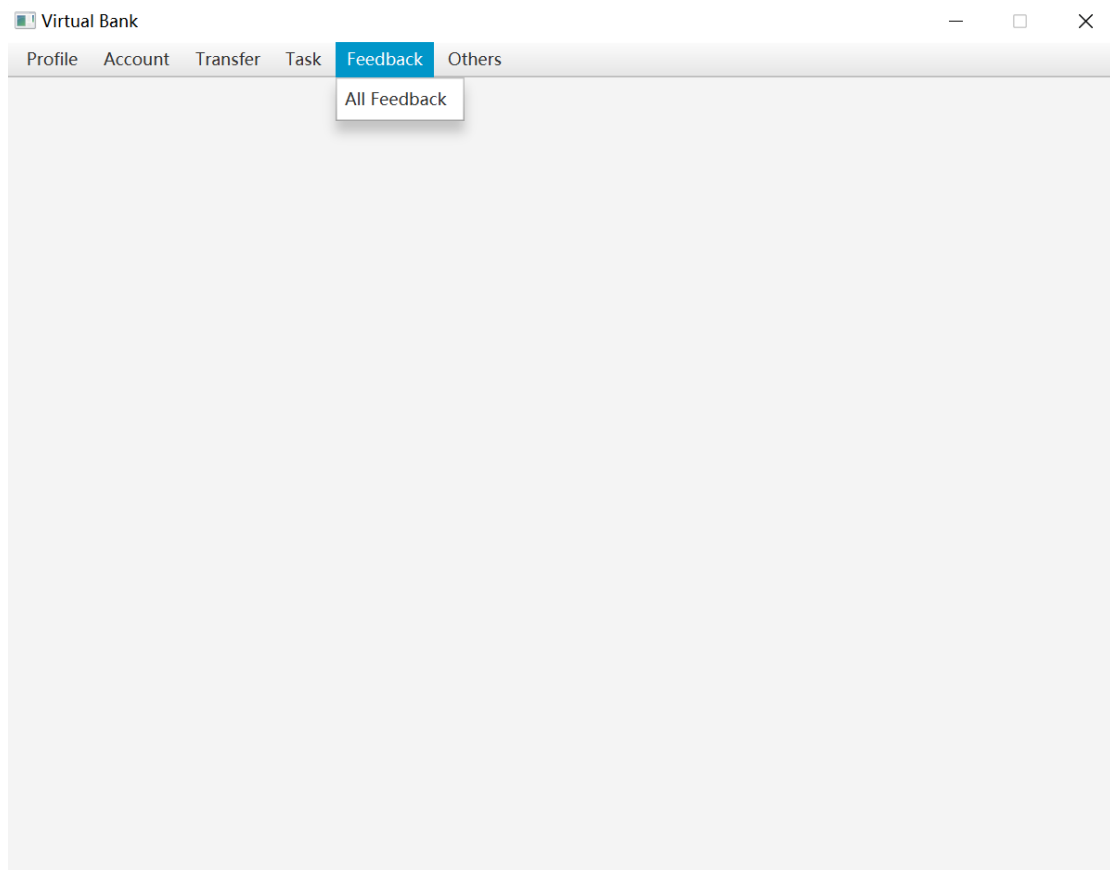
Others

Pass

Reject

ID	Username	Description	Due Date	Reward	
731a61d7-43c8-47eb-a1d5-ce3...	kid1	Clean the Windows	2024-05-26	500.0	

2.3.5 Feedback



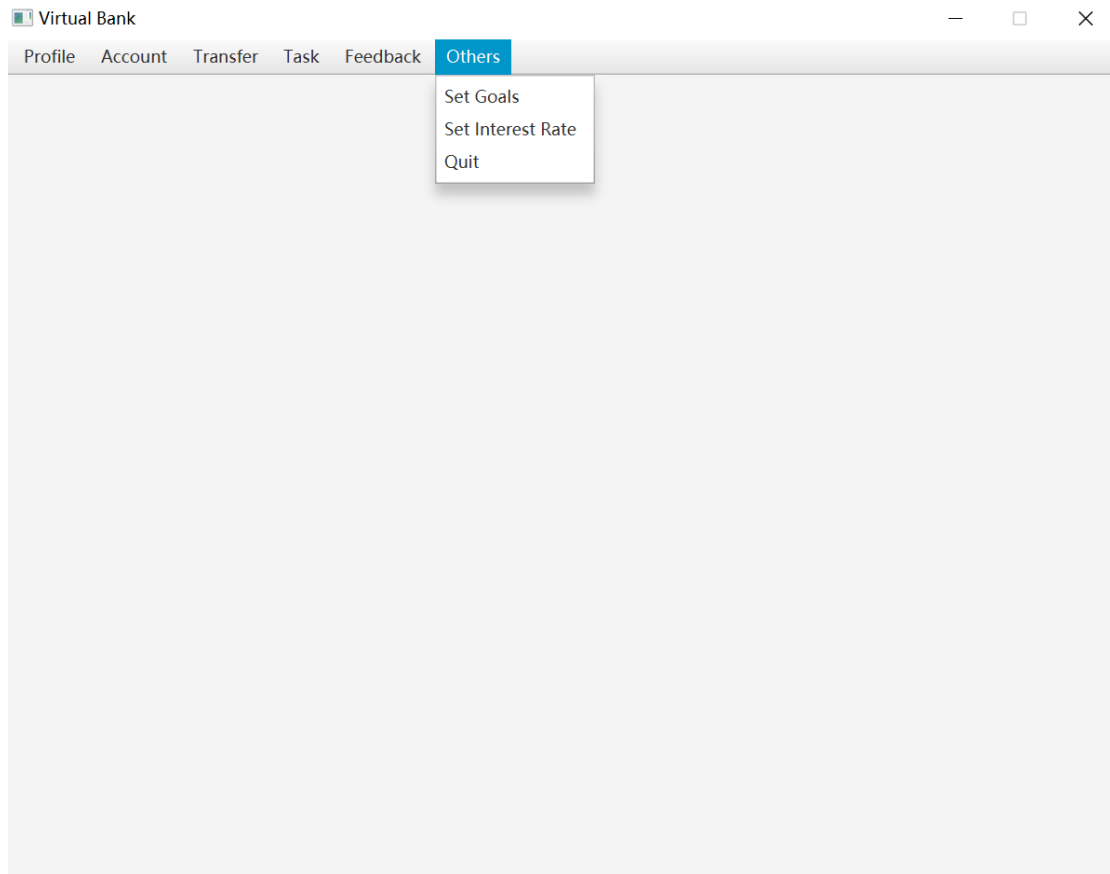
#### **a) All Feedback**

This page shows all feedback submitted by the customers.

Virtual Bank			—	□	×
Profile   Account   Transfer   Task   Feedback   Others					
Username	Content	Time			
111	This is another feedback.	2024-05-09 22:16:32			
ctest	This feedback is from ctest.	2024-05-09 22:18:54			
ctest	1. Set goals and Transfer should have input validation	2024-05-09 22:21:45			
ctest	2. Save and Withdraw should have value check as well.	2024-05-09 22:27:25			
111	3. Schedule改成Progress	2024-05-09 22:31:52			
111	5. Task下添加一项 Completed Task	2024-05-09 22:34:07			
111	6. 暂时不要动现有的数据库，如果要测试就新建一个test2账户做	2024-05-09 22:35:29			
111	6. 要检查：账户交易密码只能是6位数字	2024-05-09 22:37:18			
111	7. 申请账户的Password最好也要有confirm（不重要，方便就改）	2024-05-09 22:46:10			
ctest	8. 这个库里所有Customer密码都是111	2024-05-09 22:48:40			
111	9. goal没设置的时候，进度显示100%不太合理	2024-05-09 22:54:49			
ctest	10. 暂时先把以上这些问题处理了就行，最好下周三前解决	2024-05-09 23:01:17			
111	Hello!	2024-05-10 16:31:10			
cus2	My Completed Task应该只能看到自己receive的任务	2024-05-21 14:49:50			
cus2	This feedback is to demonstrate the function to BMJ	2024-05-22 23:47:44			
cus2	不明白的地方可以问我	2024-05-24 15:25:02			
kid1	Please pass	2024-05-24 18:34:42			
kid1	Thank you Mom.	2024-05-24 18:36:00			
kid2	I use kid2 to demonstrate Transfer.	2024-05-26 15:21:52			

## 2.3.6 Others





**a) Set Goals**

**b) Set Interest Rate**

Interest rate must be a positive number less than 100% here.

Virtual Bank

ProfileAccountTransferTaskFeedbackOthers

Interest Rate:

Submit

c) Quit