User Manual

of Virtual Bank Application for Kids

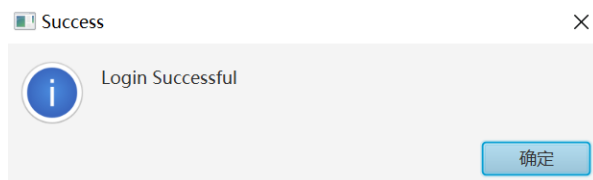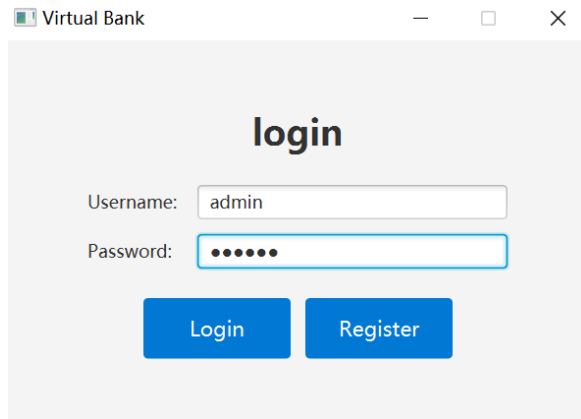## 1. Login Page

1.1 Login

1.1.1 Customer and Employee Login

Enter username and password correctly, click "Login".

1.1.2 Administrator login

Username: admin
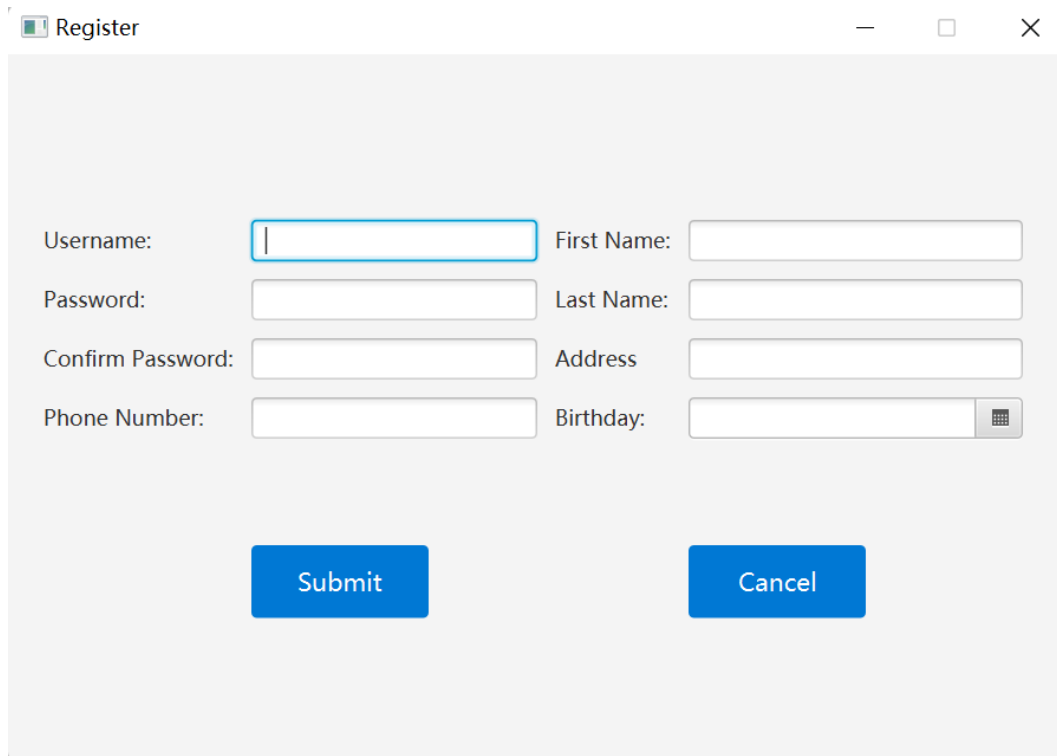
Password: 123456

1.2 Register

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

2. Main Page

2.1 Administrator

2.1.1 Management
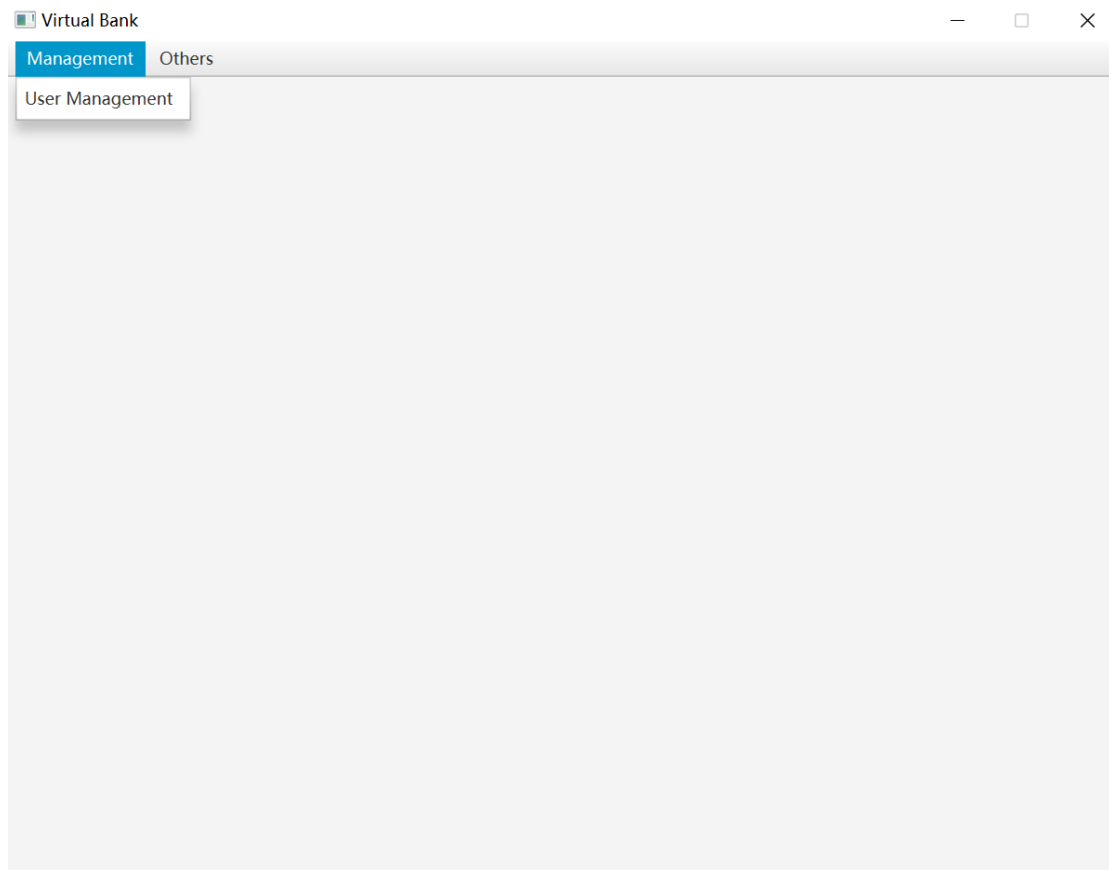
a) User Management

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.
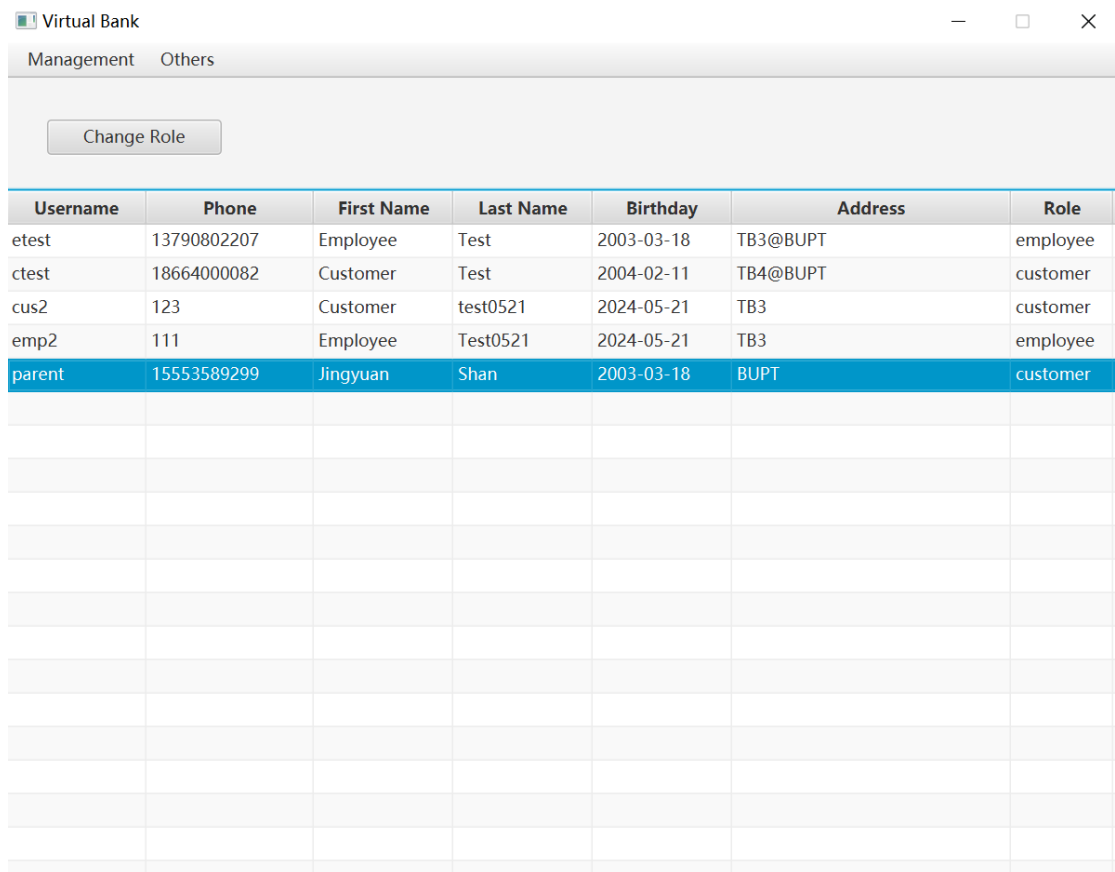
2.1.2 Others
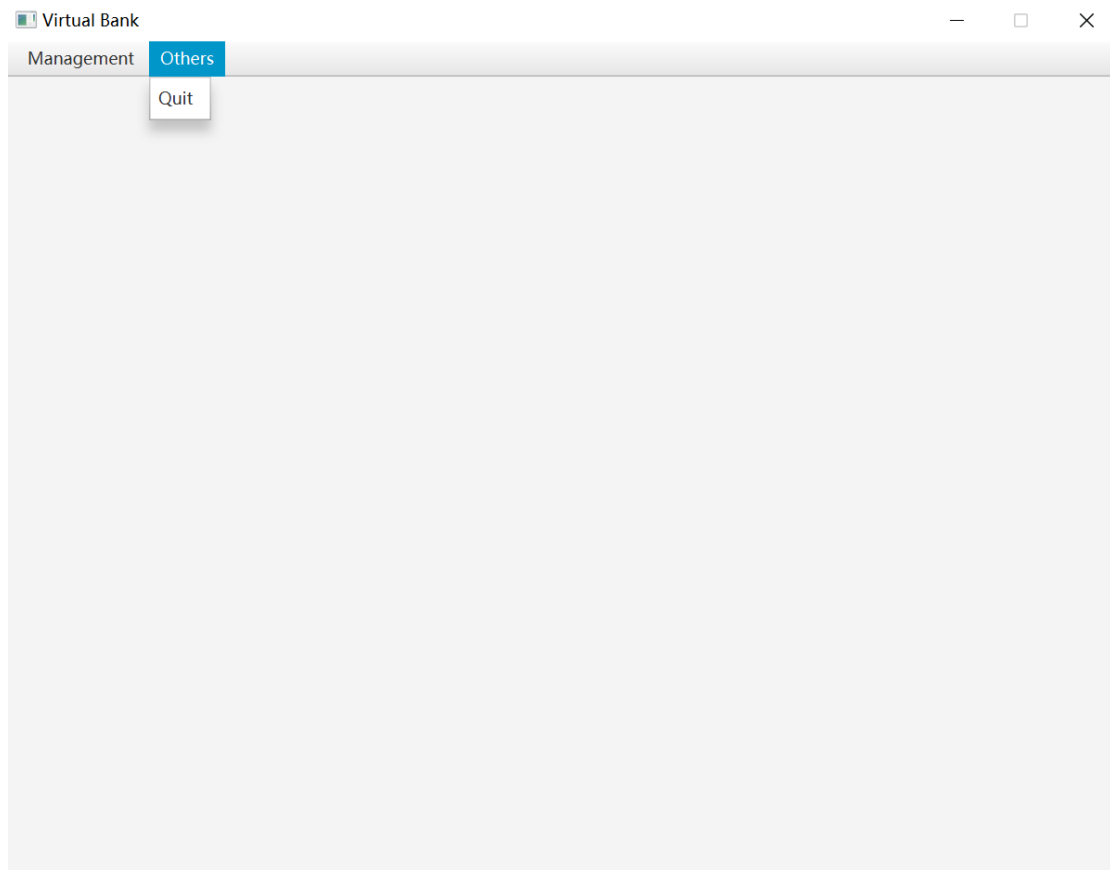
a) Quit

Click "Quit" to return to the Login Page.
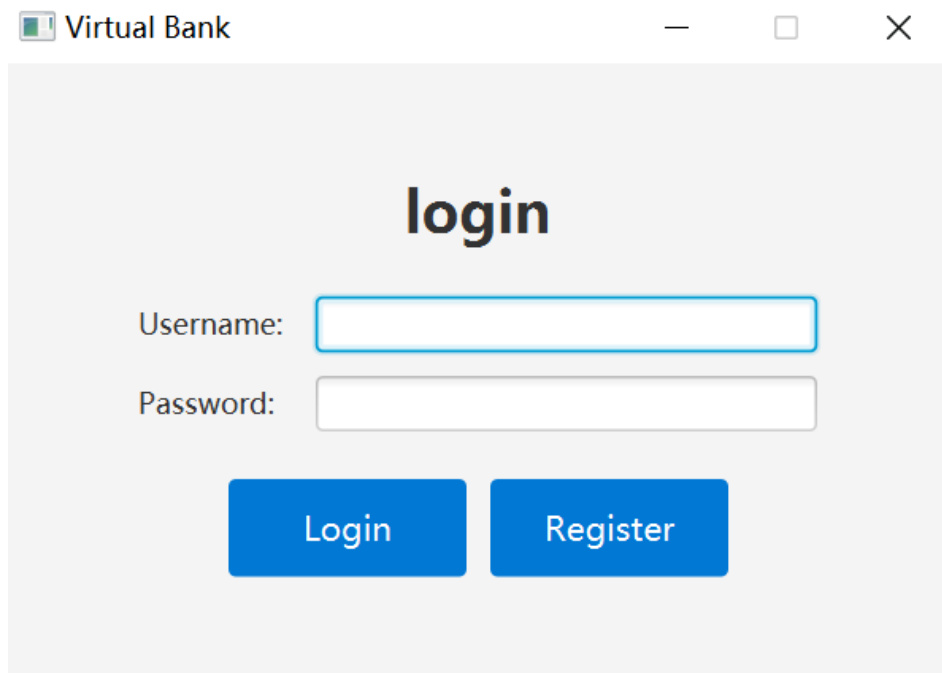
2.2 Customer (Kid)

2.2.1 Profile
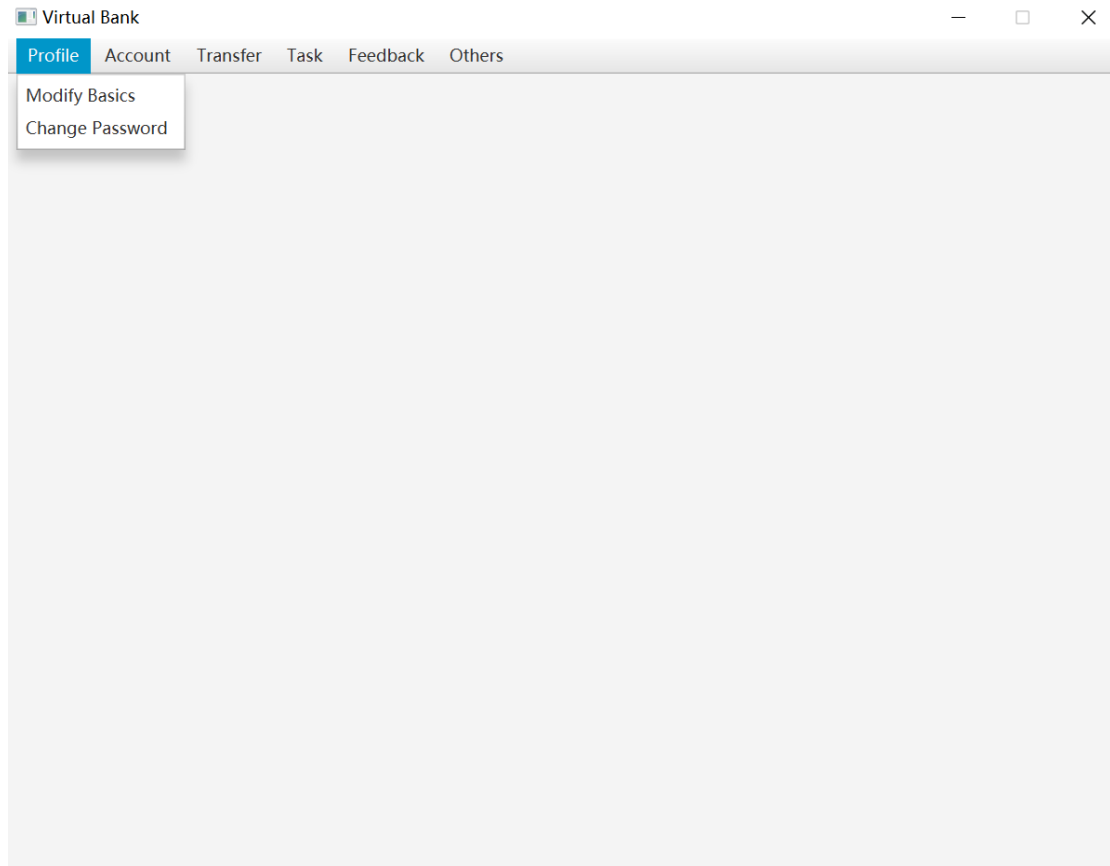
a) Modify Basics

Modify the basic information of users.

Virtual Bank

Profile   Account   Transfer   Task   Feedback   Others

Username:	kid1	First Name:	JY
Last Name:	S	Address	BUPT
Phone Number:	15553589299	Birthday:	2024/5/24

Submit

b) Change Password

Virtual Bank

Profile   Account   Transfer   Task   Feedback   Others

Old Password:

New Password:
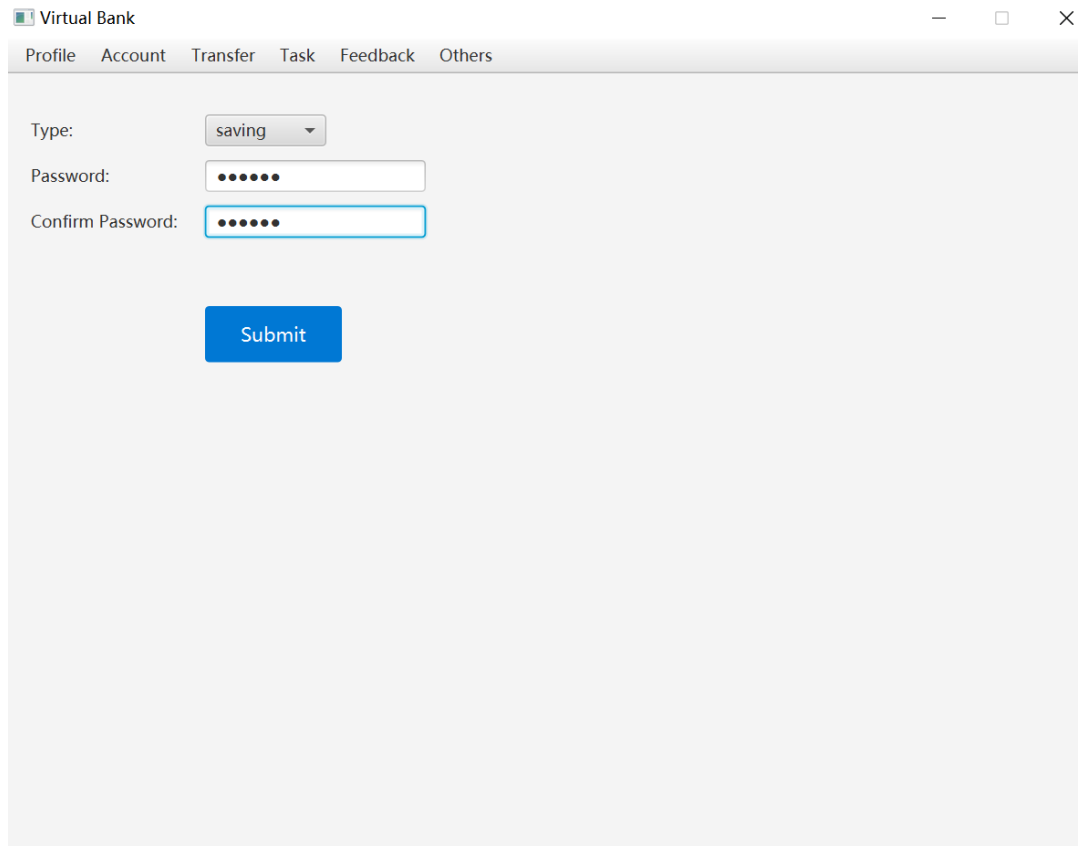
Confirm New Password:

Submit

2.2.2 Account
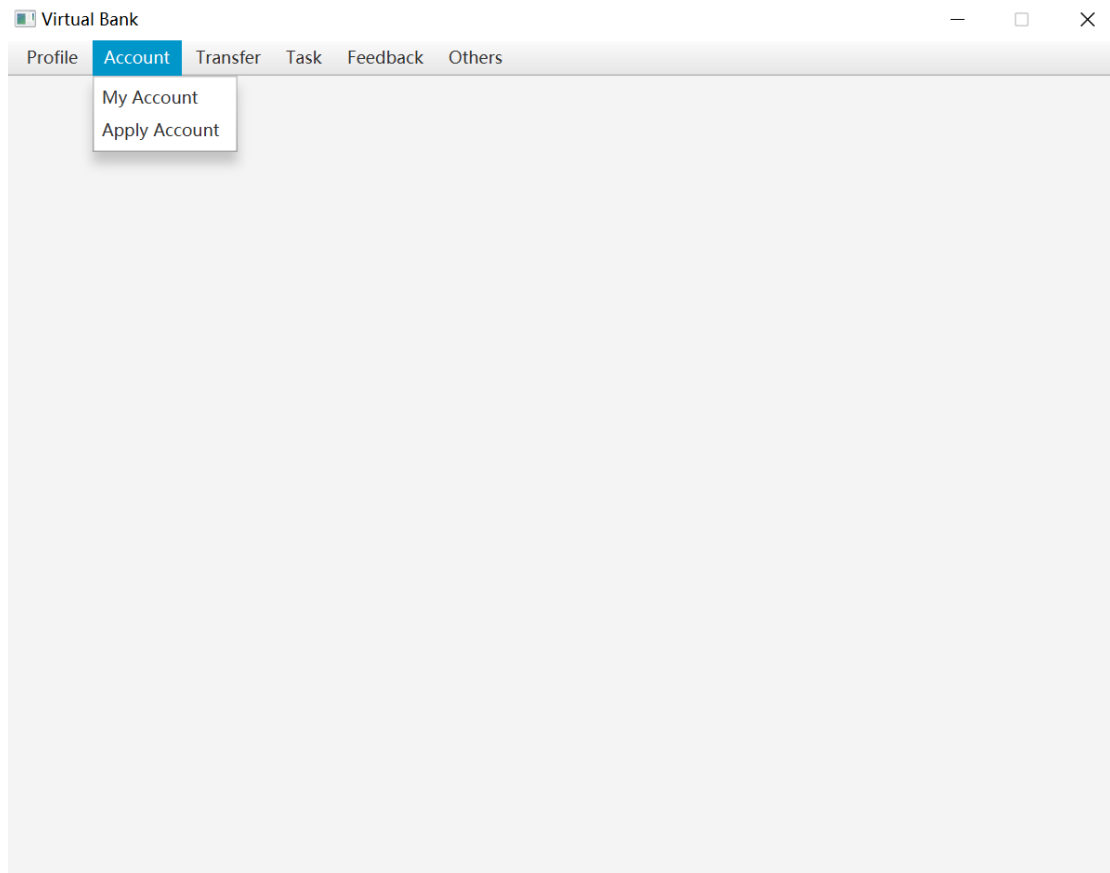
a) My Account

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

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

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

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.
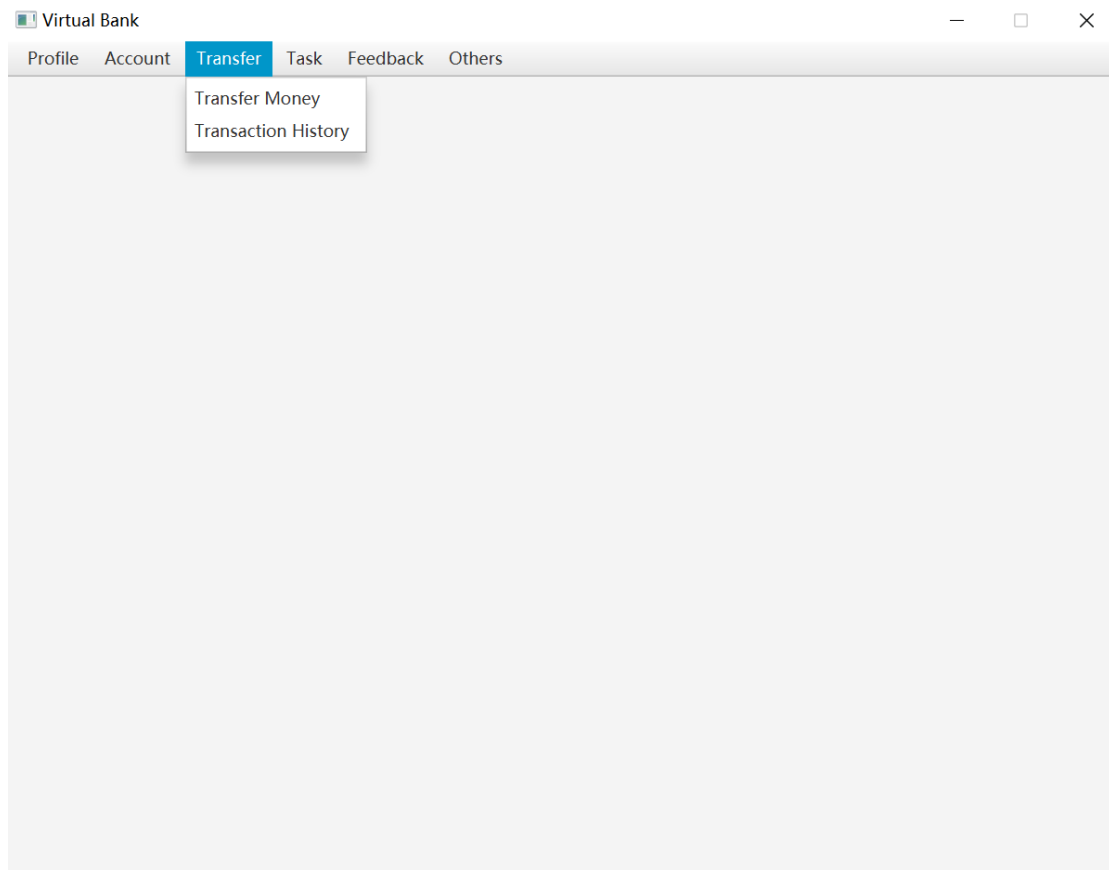
2.2.3 Transfer

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.

Click "Confirm" to transfer.

No transfers can be made from frozen accounts.

b) Transaction History

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

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.

b) Completed Task

Check all tasks completed by the user.

| Profile | Account | Transfer | Task | Feedback | Others |

ID	Description	Status	Rewar
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.

2.2.6 Others
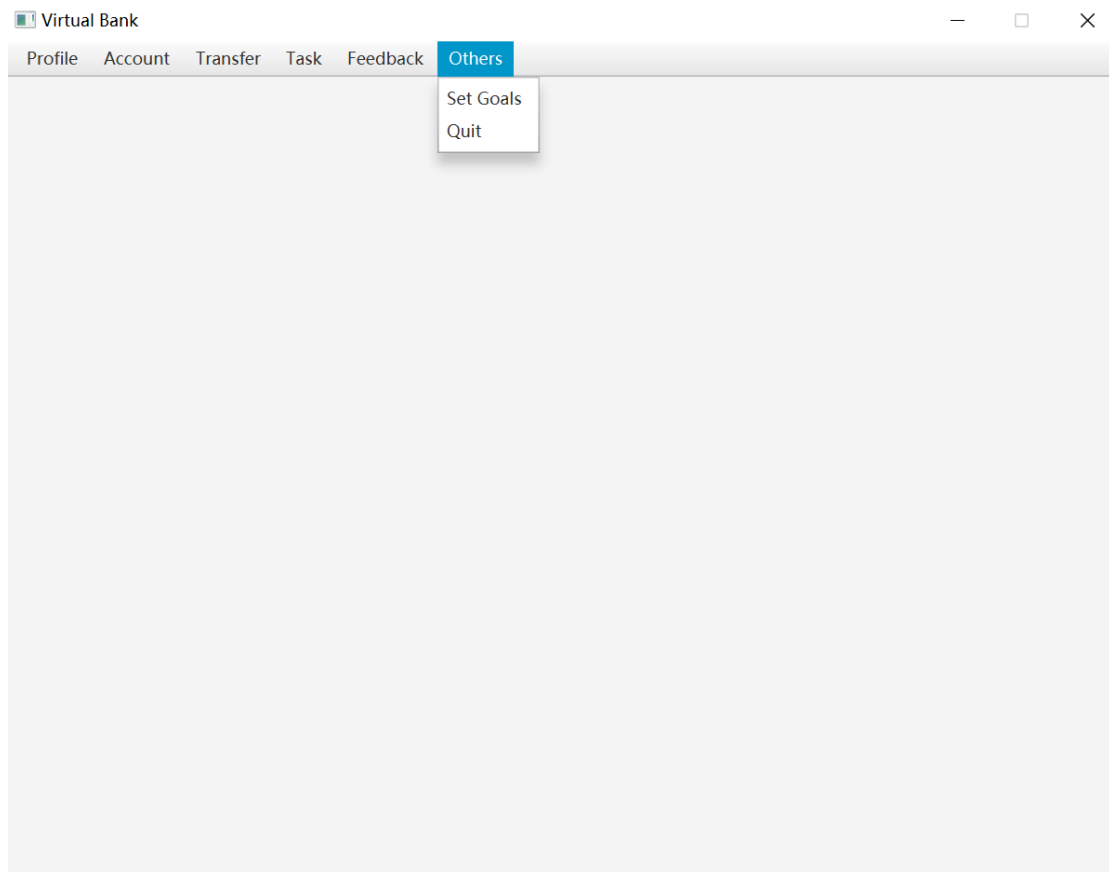
a) Set Goals

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

Click "Submit" to set goals for your accounts' balance.
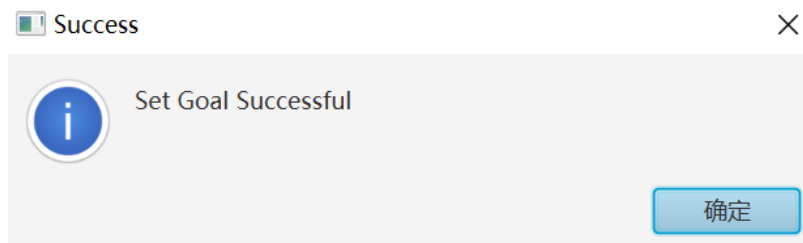
b) Quit

Go back to main page by clicking "Quit".

2.3 Employee (Parent)

2.3.1 Profile
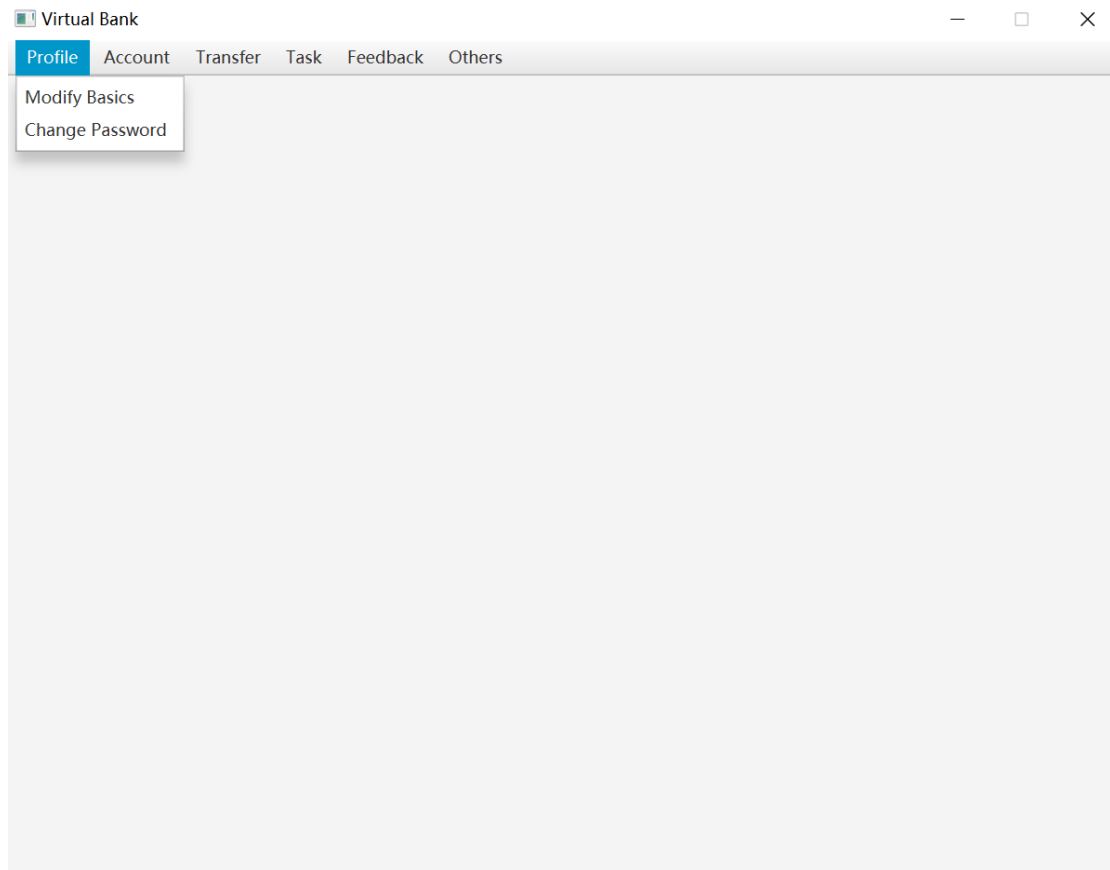
a) Modify Basics

b) Change Password

2.3.2 Account
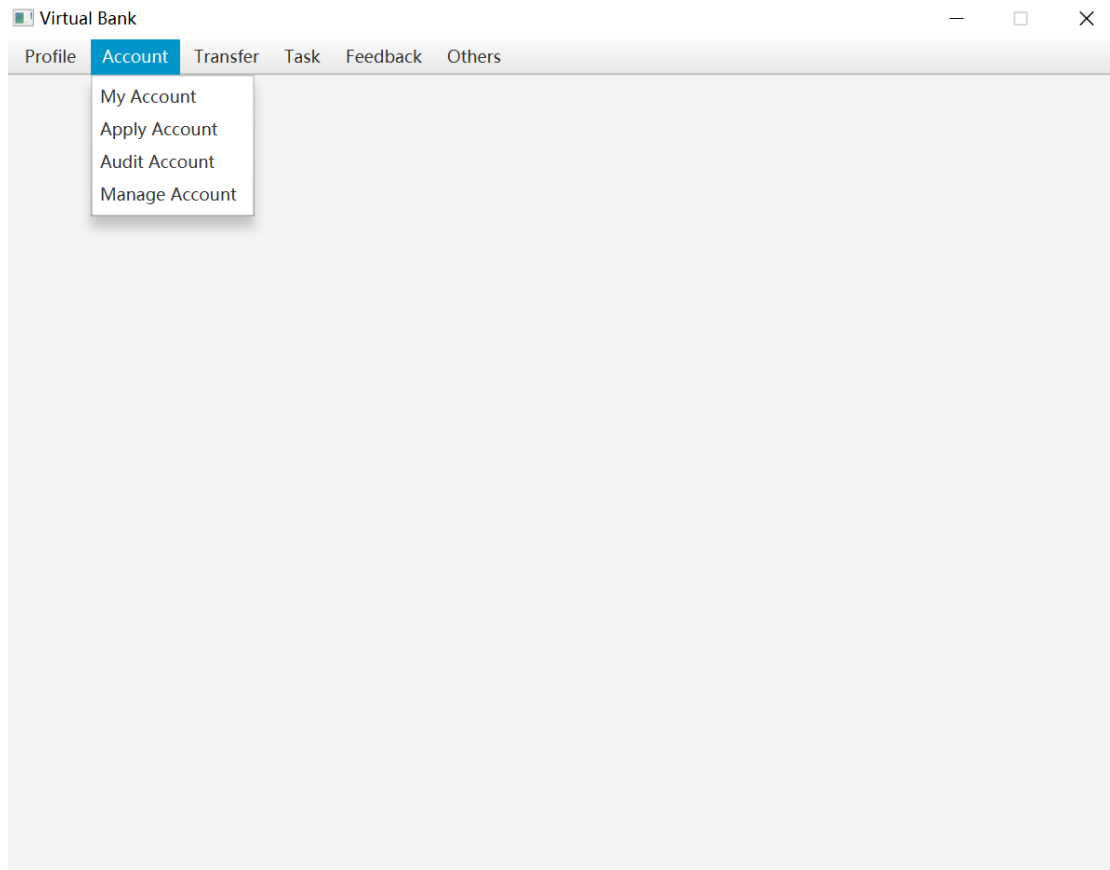
a) My Account

b) Apply Account

c) Audit Account

Choose one account application record to pass or reject.

d) Manage Account

Press the "Save" button to save money in the selected account.

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

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.

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			01	normal
267330077051799				frozen
268282506645200			98	normal
268454994392100				normal
837050940655600				frozen
837054292615800				normal
837057967114000	emp2	current	10.0	normal
1108969920327500	Ee	saving	15000.0	normal
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 ×

ⓘ Freeze Successful

确定

Press the "Thaw" button to unfreeze a frozen account.

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			0001	normal
267330077051799				frozen
268282506645200			9998	normal
268454994392100				normal
837050940655600				frozen
837054292615800				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	2000.0	normal

Success ×

ⓘ Thaw Successful

确定

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

| 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

2.3.3 Transfer

a) Transfer Money

b) Transaction History

2.3.4 Task
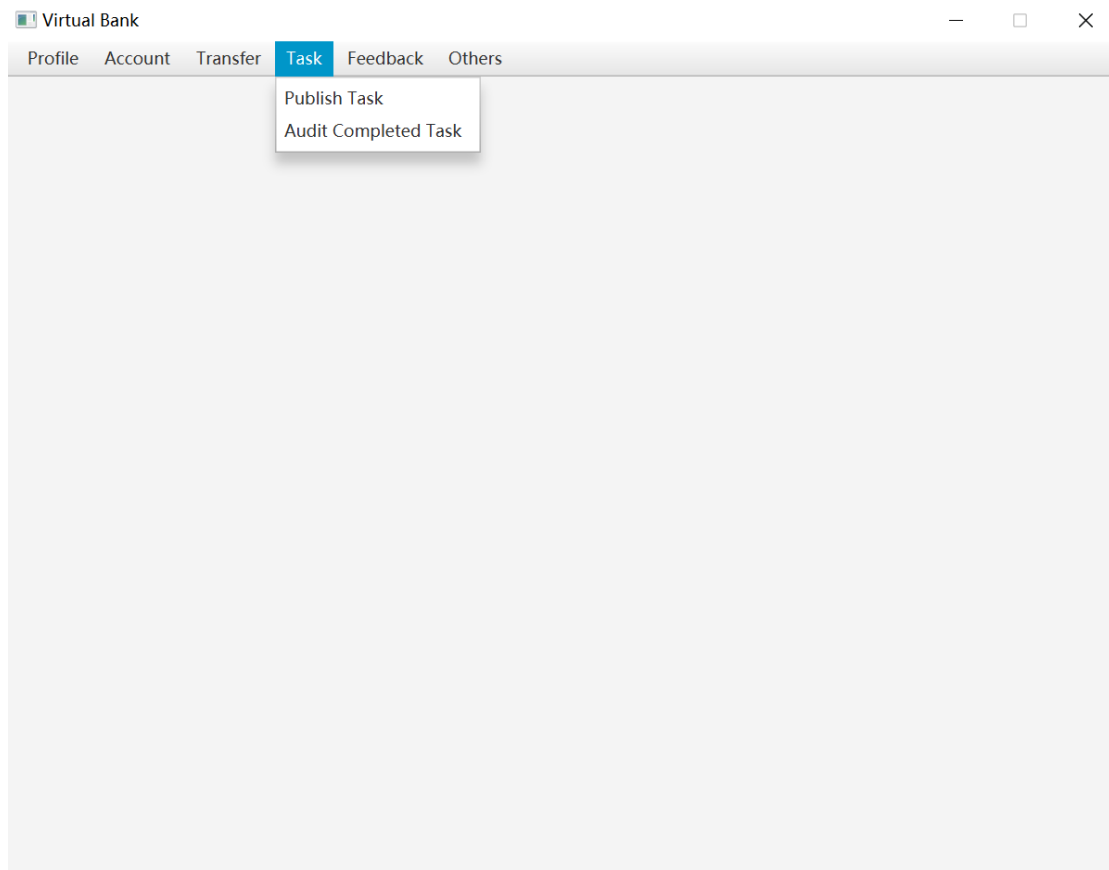
a) Publish Task

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

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.

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.

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task	2024-05-21 14:49:50
cus2	This feedback is to demostrate 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
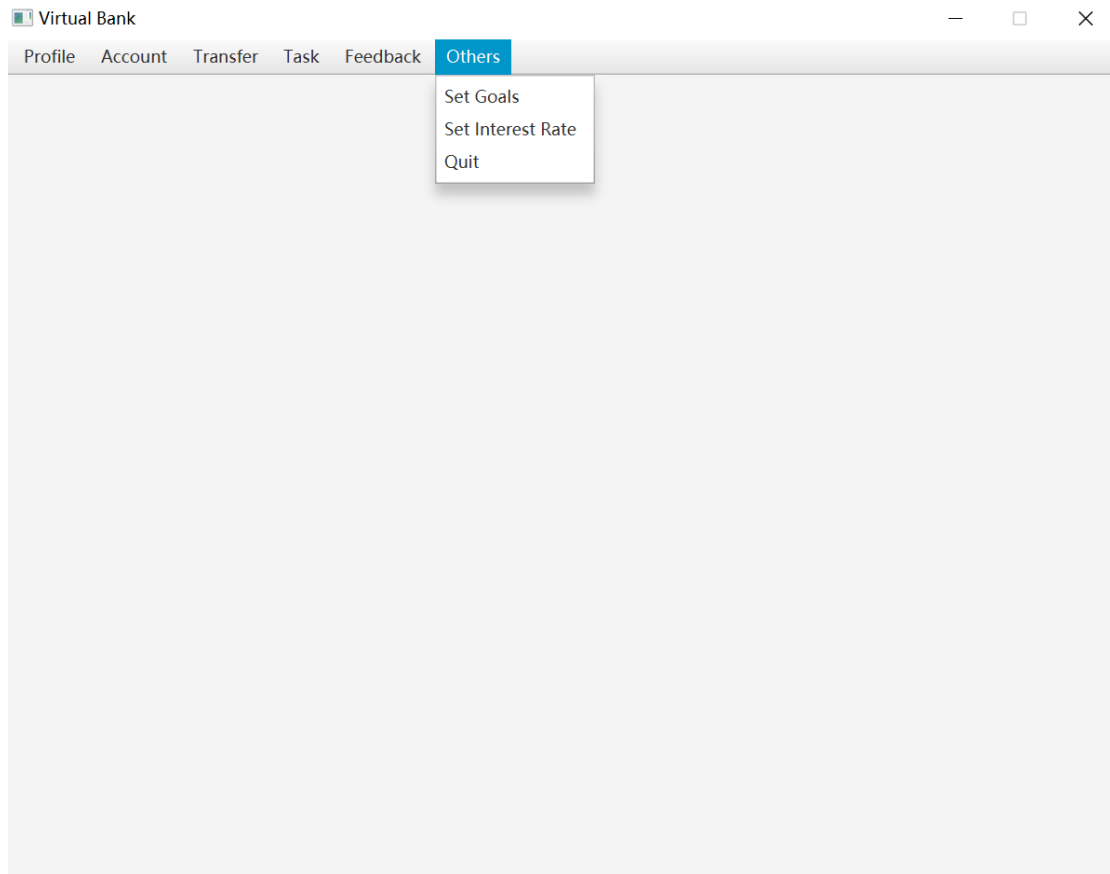
a) Set Goals

b) Set Interest Rate

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

c) Quit