# CS 591 P1 Assignment 7 SecurityBankATM README

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#### 1 Preparation

## 1.1 Unzip the file

\$tar tar xvzf file.tar.gz

e.g.:

\$tar xvzf fisrtname lastname SecurityBankATM.tar.gz

#### 1.2 Description

This assignment includes 4 folders (lib, doc, src, sql) as follows:

```
~/SecureBank/
~/lib/
~/mysql-connector-java-8.0.18.jar
~/doc/
~/README.pdf
~/DesignDoc.pdf
~/src/
~/JDBC/
~/*.java
~/Models/
~/*.java
~/Views/
~/*.java
~/sql/
~/atm.sql
```

## 1.2.1 lib

The lib folder includes mysql-connector-java-8.0.18.jar.

#### 1.2.2 doc

The doc folder includes README.pdf and DesignDoc.pdf.

#### 1.2.3 src

The src folder includes folders JDBC, Models and Views.

#### 1)JDBC

The JDBC folder includes all java files (DB.java and MySQLHelper.java) that are used to connect to the database. All the database configuration is defined in MySQLHelper.java.

#### 2)Models

The Models folder includes all java files(e.g. Account.java, Transaction.java, etc.) that define the model classes used to store the data in the program.

#### 3)Views

The Views folder includes all java files (e.g. LoginWin.java, CustomerWin.java, etc.) that define the view classes for each user interface.

#### 1.2.4 sql

Run atm.sql to initialize the database.

#### 2 Create the local database

## 2.1 Log in Mysql

This program uses Mysql as the database.

The username and password for the program is configured in the file src/JDBC/MySQLHelper.java.

e.g.:

\$ mysql -u root -p

Enter password: \*\*\*\*\*

#### 2.2 Run the script atm.sql

After logging in, run the script atm.sql.

mysql> source \*file path\*/atm.sql

Note: \*file\_path\* is the folder where the script is located. for example: mysql> source /users/admin/Desktop/atm.sql

#### 3 How to build the code

1)import jar mysql-connector-java-8.0.18.jar

2)run the main() method in ATM.java.

## 4 Running Sample

#### 4.1 Predefined available account

Manager Info:

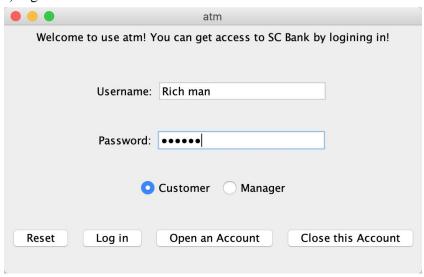
Username: Happy admin Password: money

Customer Info:

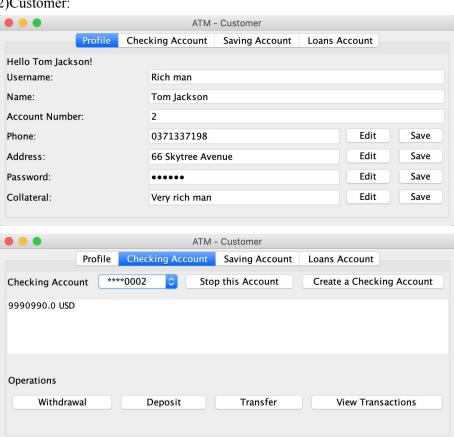
Username: Rich man Password: 123456 Username: Poor man Password: 123456 Username: Customer Password: 123456

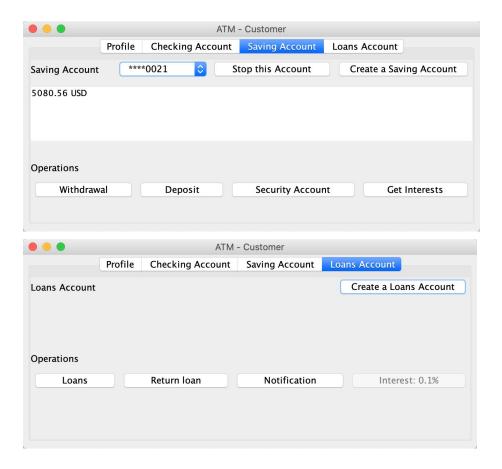
## 4.2 Sample

## 1)Login:



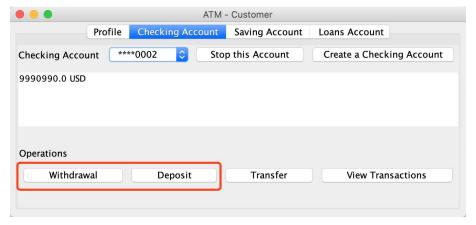
## 2)Customer:





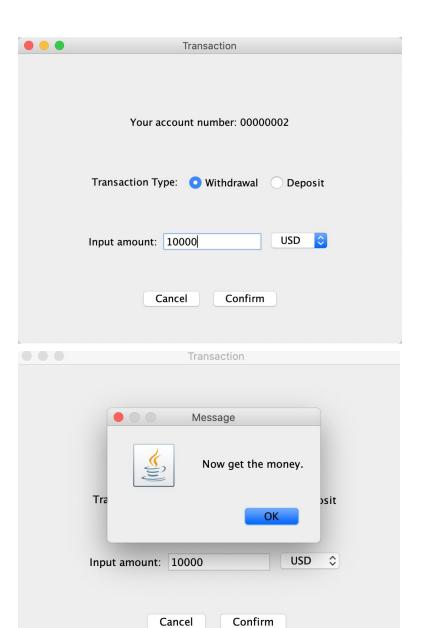
## 3)Withdrawal/Deposit

Click "Withdrawal" or "Deposit" button to move on to the next window.

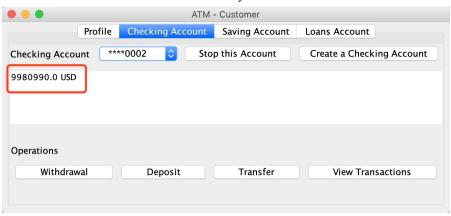


Also, you can modify your decision.

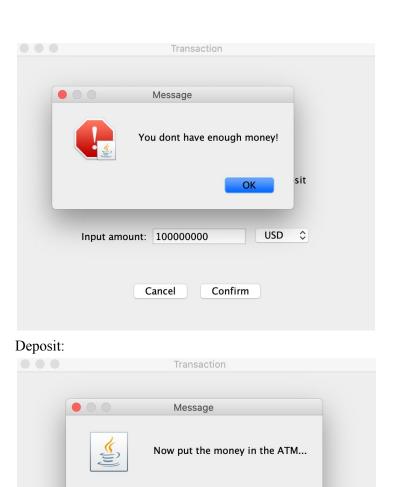
Withdrawal:

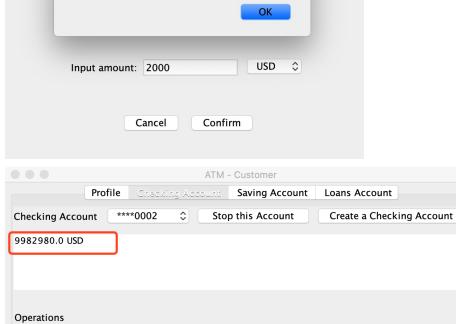


Then it will return the last window after you clink "OK".



If you don't have enough money...





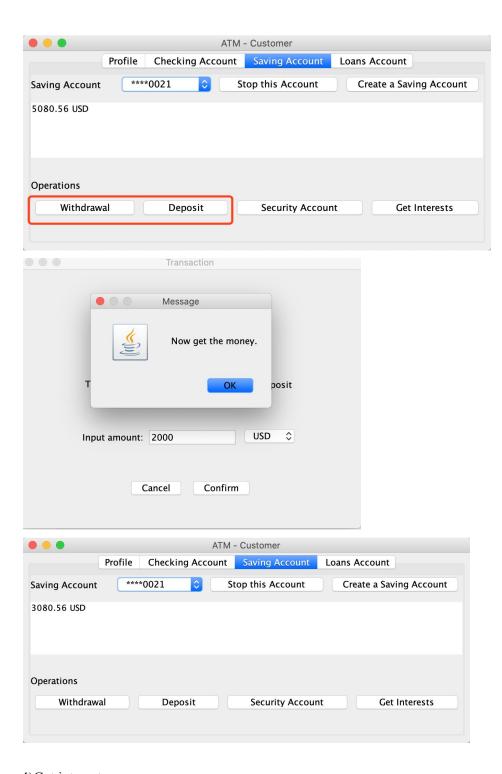
Deposit

Withdrawal

In saving account, the withdrawal and deposit operations are the same with that in checking account.

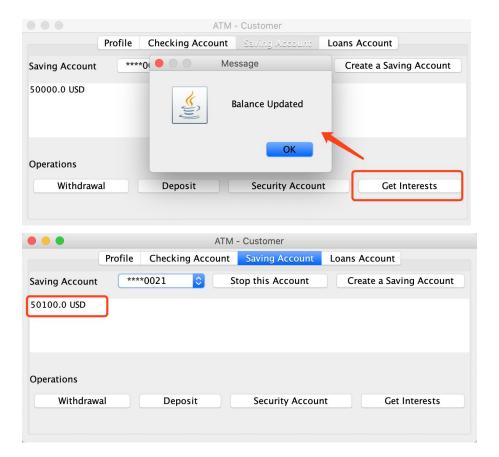
View Transactions

Transfer



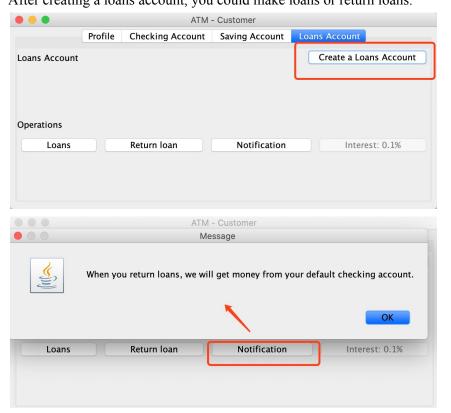
# 4)Get interests

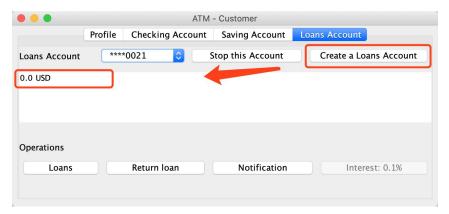
Click 'Get interests' to get the interests of all your saving accounts.



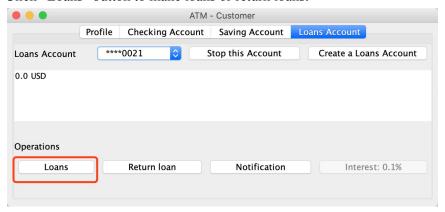
### 5)Loan account

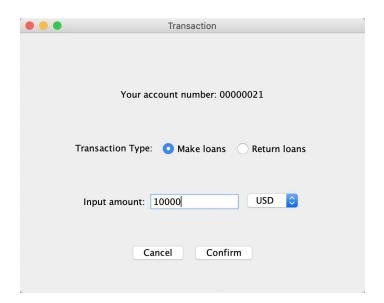
If you don't have a collateral, you could not create a loans account. After creating a loans account, you could make loans or return loans.

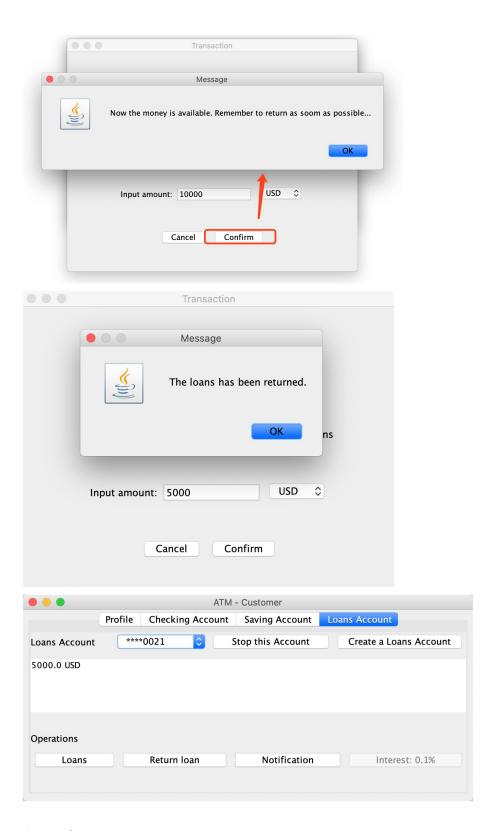




## Click "Loans" button to make loans or return loans:

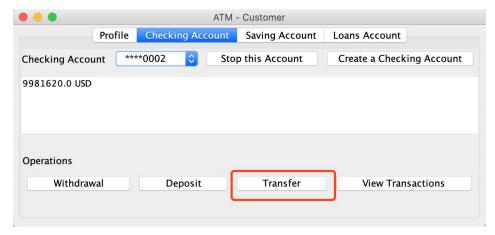




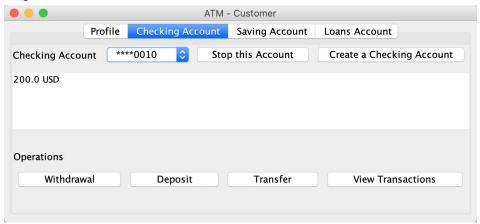


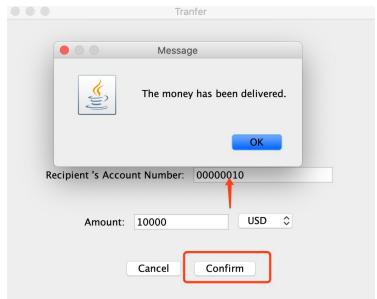
## 6)Transfer

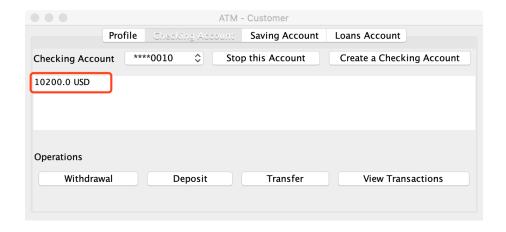
You can transfer from an account to another account. These two accounts may belong to different banks and different customers. Now we transfer money from checking account to our saving account.



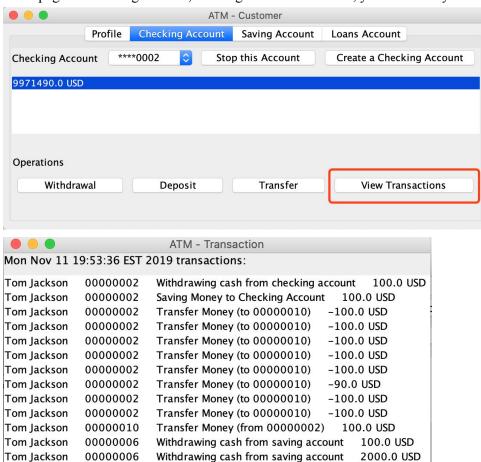
## Target account:







In the page of checking account, clicking 'view transaction', you can view your transaction history.



Saving Money to Saving Account

Returning loans -100.0 USD

100.0 USD

Requesting loans

100.0 USD

7)Manager:

Tom Jackson

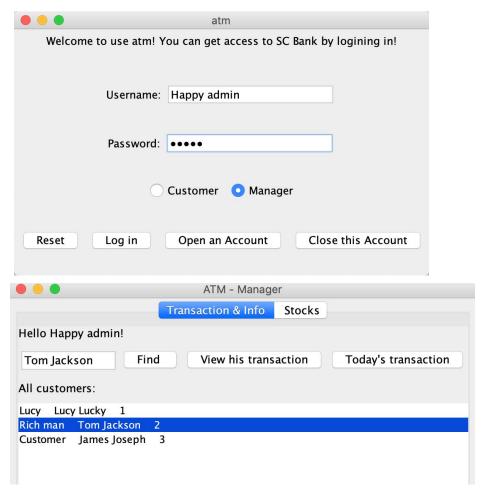
Tom Jackson

Tom Jackson

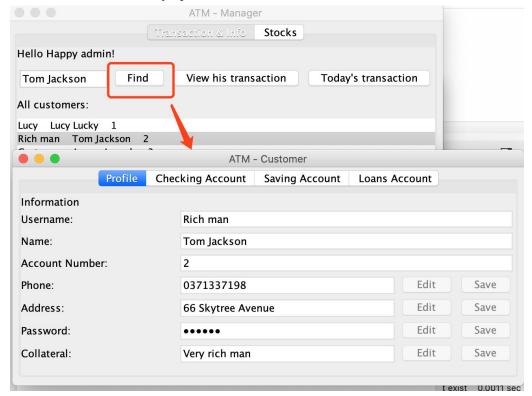
0000006

00000012

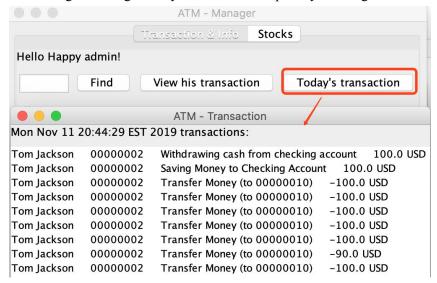
00000002



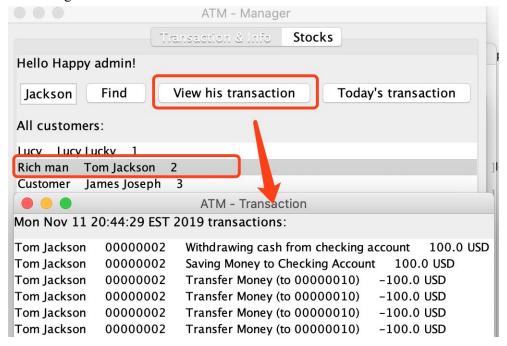
By clicking the list item and the button "find", the manager could view the customer 's information. However, he cannot do any operation.



The manager could get today 's transaction report by clicking the following button.

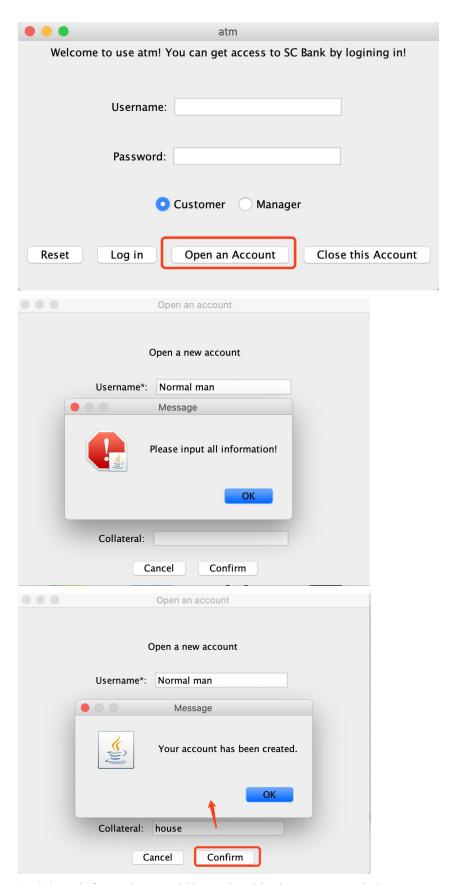


The manager could also click 'view his transaction' to view a customer's transaction.



#### 8)Open Account

The user should input all \* information to create an account.

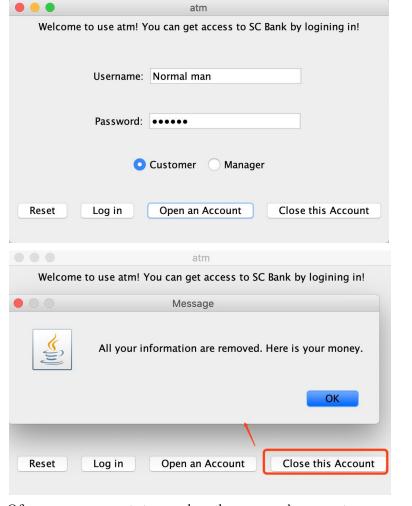


And these information would be updated in the manager window.

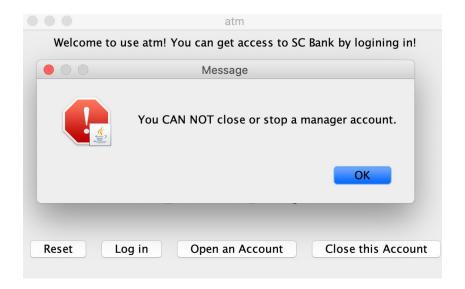


### 9)Close Account

Input Username and Password, then click "Close this Account":



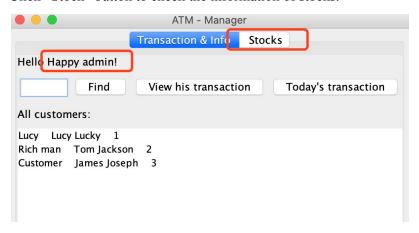
Of course you cannot stop or close the manager's account:



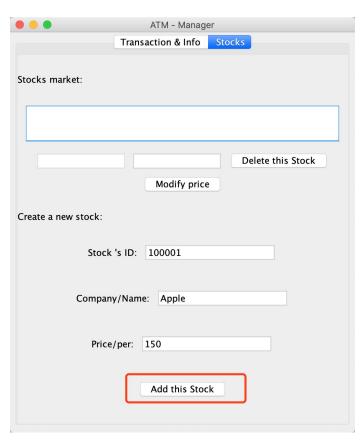
## 10)Stock

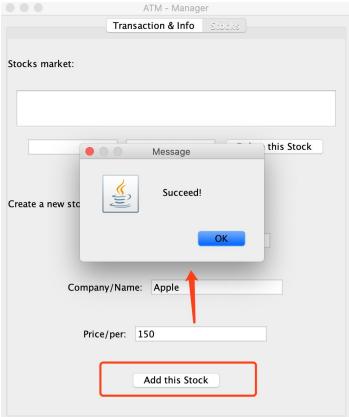
## 10.1)Add Stock

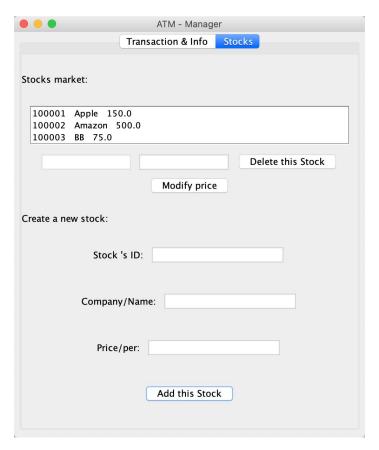
Click "Stock" button to check the information of stocks.



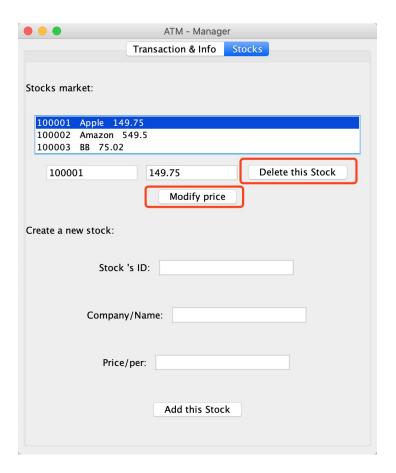
Input ID, Name and Price, stock can be added to the stock list.





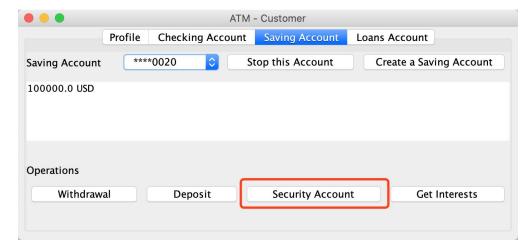


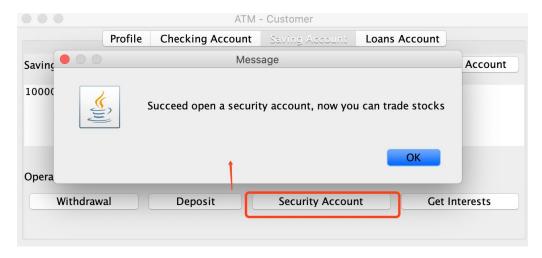
The admin can delete a chosen stock as long as no one owns the stock or even modify its price if needed.



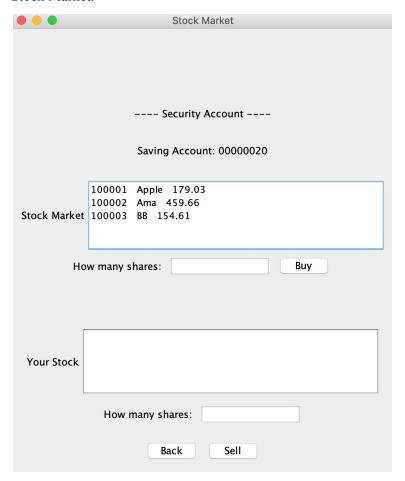
# 10.2) Buy stock

Click "Security Account" button to create security account after logging in as a customer.

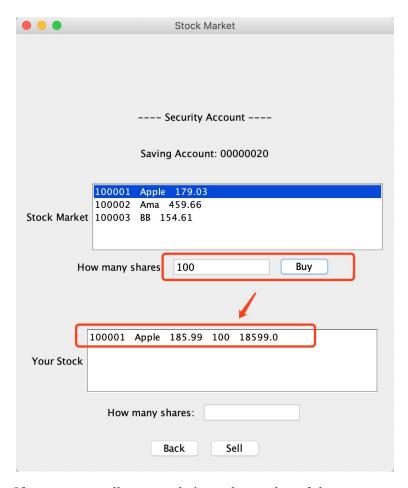




#### Stock Market:



Click the stock you want to buy, and input the number of shares, and then click "Buy" button. The stocks you have will be shown in the window below:



If you want to sell your stock, input the number of shares you want to sell and click "Sell" button:

