

The requirement for using our application 😊

Please download the path file **[sqlite-jdbc-3.18.0.jar]** from the piazza, and set the path using the function in the eclipse to make sure that you can connect to the database correctly.

If you try to use our bank system **for the first time**, then you should firstly put **-1** as the argument. [At this time, the bank will help you build an admin and return the id of the admin (usually it will be 1){Please remember the password of admin since you do not be able to mutate the password of this account}]

The argument:

-1	For the first time, initialize the database and then create an admin. For the rest of the time, keep using the database and be able to create a new admin
1	You can access to the Admin Terminal
o/w	You can access to the Teller Terminal or the ATM Terminal

The overall introduction of the function of the different terminal

The Admin Terminal

1. create a new admin	Create a new admin (Require you to input the user information)
2. create a new teller	Create a new teller (Require you to input the user information)
3. view all admins	All the admin with the details
4. view all tellers	All the teller with the details
5. view all customers	All the customer with the detail will be shown. <u>After this, you can also use the command to view the account detail for the customer (Follow the hint guideline)</u>
6. check your own message	Check all the message from the message box The view status will not be changed. Follow the guide there will be the command to change the information status from unviewed to viewed
7. check specific message	Check the specific message <u>The view status will not be changed. Follow the guide there will be the command to change the information status from unviewed to viewed</u>
8. send message	Send the message to the given accounted
9. database Daemon	This method will serialize the database into the database copy (There is a roll back plan if this process)
10. database Recover	This method will de-serialize the database from the database copy file
11. promote teller to admin	This method will try to promote a teller from to the admin
12. view all balance of a	This method will let the admin be able to view the sum of the

customer	money store in all the account of the customer
13. View all the money in the bank	This method will let the admin have the ability to view the sum of all money that stored in the bank
14. Exit	The system will exit after calling this

The Teller Terminal (This terminal will turn to show the current customer)

The command table one

1. Authenticate new user	This method will try to authenticate the user if succeed it will move to the command table two
2. Make new customer	This method will create a new Customer (Require the information of the customer) If succeed, then it will move to the phase two and set the customer created by us as the current customer
3. Read your messages	This method will be able to read the message that sent to the teller <u>The view status will be automatically changed to viewed</u>
4. Send a message to customer	This method will let the teller have the ability to send the message to the customer(All customer that may not be the customer that the teller is serving)
5. Exit	The system will exit after calling this

The command table two (If the customer has been successfully

1. Make new account	This method will try to create a new account
2. Give interest	This method will try to give the interest to the account and leave the hint message to the customer
3. Make deposit	This method will help the customer make deposit to the account
4. Make withdraw	This method will help the customer make withdraw of the account
5. Read the customer message	This method will help the current customer to read the messages that sent to him/her <u>The view status will be automatically changed to viewed</u>
6. View all the balance of the customer	This method will return the sum of all the money stored in the accounts of the current customer
7. Mutate the name of the customer	This method will mutate the name of the customer
8. Mutate the address of the customer	This method will mutate the address of the customer
9. Mutate the password of the customer	This method will mutate the password of the current customer
10. Close the customer session	This method will move back to the command line table 1(Be able to let the teller to serve the other customers)

The ATM Terminal

1. Make deposit	This method will let the customer make deposit to their
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	account
2. Make withdraw	This method will let the customer make the deposit to their account
3. Check message	This method will check the message for the current customer <u>The view status will be automatically changed to viewed</u>
4. Exit	This method will end the system