

Overview:

Welcome to my online banking.

Well, this is the program that similar to online banking and I have tried my best to make UI as beautiful as possible. If The grade is less than 19.5 and I will even cry QAQ

So let's start with the design:

Design:

This program contains 4 classes:

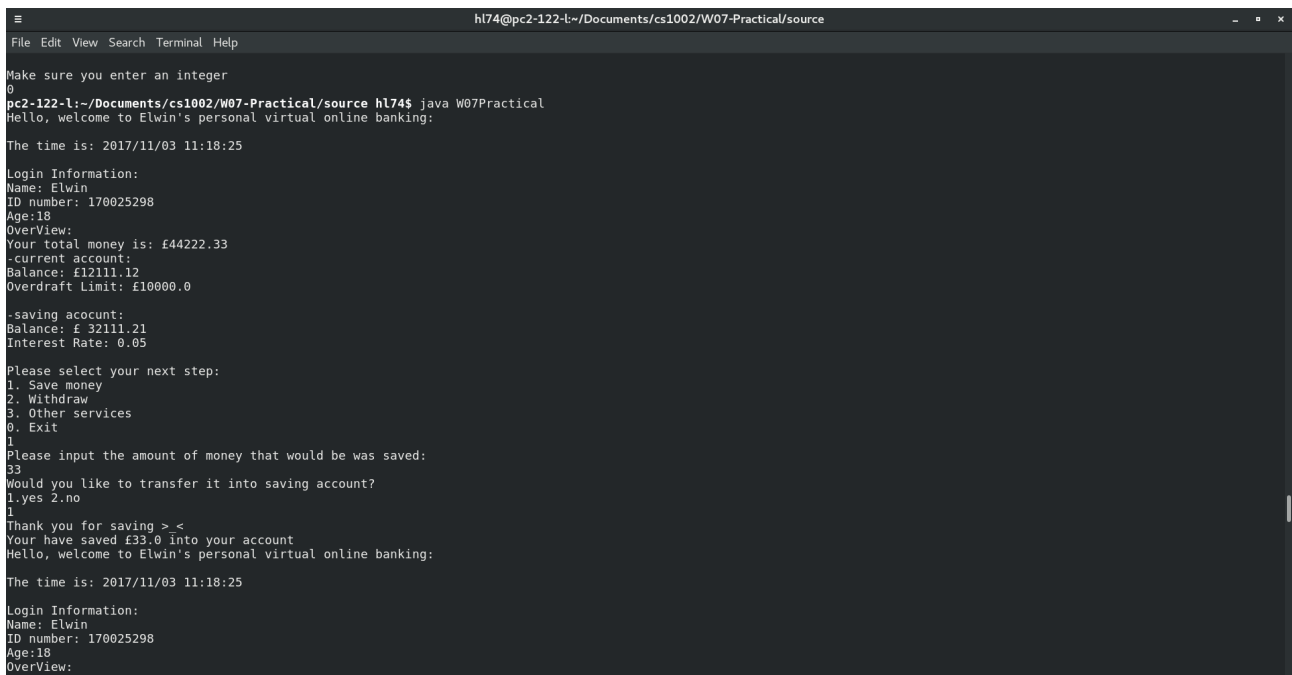
- EasyIn2
- Customers
- System Date
- Main class.

Customer contains setter and getter, is used to set the information of customer.

System date is to show the system date for sure

EasyIn2 for input

and Main class contains UI and switch case.



```
hl74@pc2-122-l~/Documents/cs1002/W07-Practical/source
File Edit View Search Terminal Help
Make sure you enter an integer
0
pc2-122-l~/Documents/cs1002/W07-Practical/source hl74$ java W07Practical
Hello, welcome to Elwin's personal virtual online banking:

The time is: 2017/11/03 11:18:25

Login Information:
Name: Elwin
ID number: 170025298
Age:18
OverView:
Your total money is: £44222.33
-current account:
Balance: £12111.12
Overdraft Limit: £10000.0
-saving account:
Balance: £ 32111.21
Interest Rate: 0.05

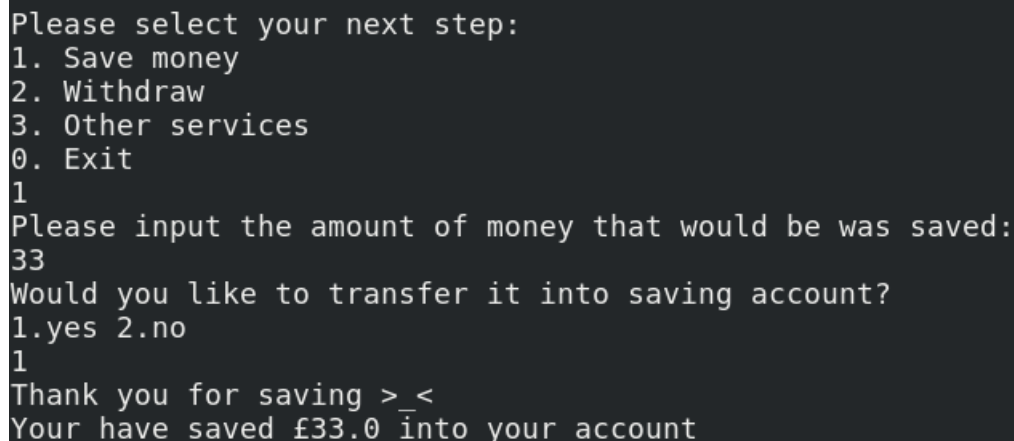
Please select your next step:
1. Save money
2. Withdraw
3. Other services
0. Exit
1
Please input the amount of money that would be was saved:
33
Would you like to transfer it into saving account?
1.yes 2.no
1
Thank you for saving >_<
Your have saved £33.0 into your account
Hello, welcome to Elwin's personal virtual online banking:

The time is: 2017/11/03 11:18:25

Login Information:
Name: Elwin
ID number: 170025298
Age:18
OverView:
Your total money is: £44222.33
```

This is the UI of my program and it contains 3 features:

Save , withdraw and other services. In the save case you have to input the amount you want to save



```
Please select your next step:
1. Save money
2. Withdraw
3. Other services
0. Exit
1
Please input the amount of money that would be was saved:
33
Would you like to transfer it into saving account?
1.yes 2.no
1
Thank you for saving >_<
Your have saved £33.0 into your account
```

After you save money and you will be asked whether you are going to save money into saving account.>_<is a face that is cute!

Withdraw contains if command for judge whether your money is enough. If it is enough you will get "succeed"

```
-saving account:  
Balance: £ 32111.21  
Interest Rate: 0.05  
  
Please select your next step:  
1. Save money  
2. Withdraw  
3. Other services  
0. Exit  
2  
Please input the amount of money you would like to withdraw:  
12111  
Processing.....  
Succeed!
```

There is an overdraft limit to the account and it can also be used

```
Please input the amount of money you would like to withdraw:  
1233  
Processing.....  
Succeed!  
Hello, welcome to Elwin's personal virtual online banking:  
  
The time is: 2017/11/03 11:26:10  
  
Login Information:  
Name: Elwin  
ID number: 170025298  
Age:18  
Overview:  
Your total money is: £44222.33  
-current account:  
Balance: £0.00  
Overdraft Limit: £8767.0
```

3. Saving- balance transfer:

```
Please select your next step:  
1. Save money  
2. Withdraw  
3. Other services  
0. Exit  
3  
Please select your service:  
1. Saving account  
2. Balance transfer  
0. Exit  
1  
Please select the service you want to take:  
1. Transfer money from saving account to balance  
2. Save money into saving account  
0. Exit  
2  
How much will you save?  
22222222  
Failed!
```

```

Please select your next step:
1. Save money
2. Withdraw
3. Other services
0. Exit
3
Please select your service:
1. Saving account
2. Balance transfer
0. Exit
1
Please select the service you want to take:
1. Transfer money from saving account to balance
2. Save money into saving account
0. Exit
0

```

This is used to transfer money between saving account and current account. However, you can't use overdraft to save.

-Test:

The following is the test result:

```

Please input the amount of money that would be was saved:
33
Would you like to transfer it into saving account?
1.yes 2.no
1
Thank you for saving >_<
Your have saved £33.0 into your account
Hello, welcome to Elwin's personal virtual online banking:

The time is: 2017/11/03 11:18:25

Login Information:
Name: Elwin
ID number: 170025298
Age:18
OverView:
Your total money is: £44222.33
-current account:
Balance: £12111.12
Overdraft Limit: £10000.0

-saving acocunt:
Balance: £ 32144.21
Interest Rate: 0.05

```

```
Please input the amount of money you would like to withdraw:
12111
Processing.....
Succeed!
Hello, welcome to Elwin's personal virtual online banking:

The time is: 2017/11/03 11:26:10

Login Information:
Name: Elwin
ID number: 170025298
Age:18
OverView:
Your total money is: £44222.33
-current account:
Balance: £0.12
Overdraft Limit: £10000.0

-saving account:
Balance: £ 32111.21
Interest Rate: 0.05

Please select your next step:
1. Save money
2. Withdraw
3. Other services
0. Exit
2
Please input the amount of money you would like to withdraw:
1233
Processing.....
Succeed!
```

These are the result of each actions and you can see that from the change of saving account and current account.

```

Login Information:
Name: Elwin
ID number: 170025298
Age:18
OverView:
Your total money is: £44222.33
-current account:
Balance: £0.00
Overdraft Limit: £8767.0

-saving account:
Balance: £ 32111.21
Interest Rate: 0.05

Please select your next step:
1. Save money
2. Withdraw
3. Other services
0. Exit
3
Please select your service:
1. Saving account
2. Balance transfer
0. Exit
1
Please select the service you want to take:
1. Transfer money from saving account to balance
2. Save money into saving account
0. Exit
0

```

And 0 can exit the program.

Question:

We need only to set two account for saving and balance and that would be ok.

As for customers, We can set some method and save their informations in it so that all their informations can be set. If I have a data base and I am able to transfer money to database for each customers However I don't know how to do so.

Evaluation:

I think as for UI and functions, this program should gain at least more than 19.5.

If anyone's program is better than me and please tell me. I will try to make my program better.

I want grades OTZ

Conclusion:

I am quite curiosity about how to save data in database or XML.

Well, I used double to make sure that customers could save money big enough. However, obviously, we can't make the number too big OR it will print like 1E+12 and so on.