Introduction to Programming EE2310　Homework 5

103061142　楊淳佑

Problem

To create a menu of a customer service center.

My Solution

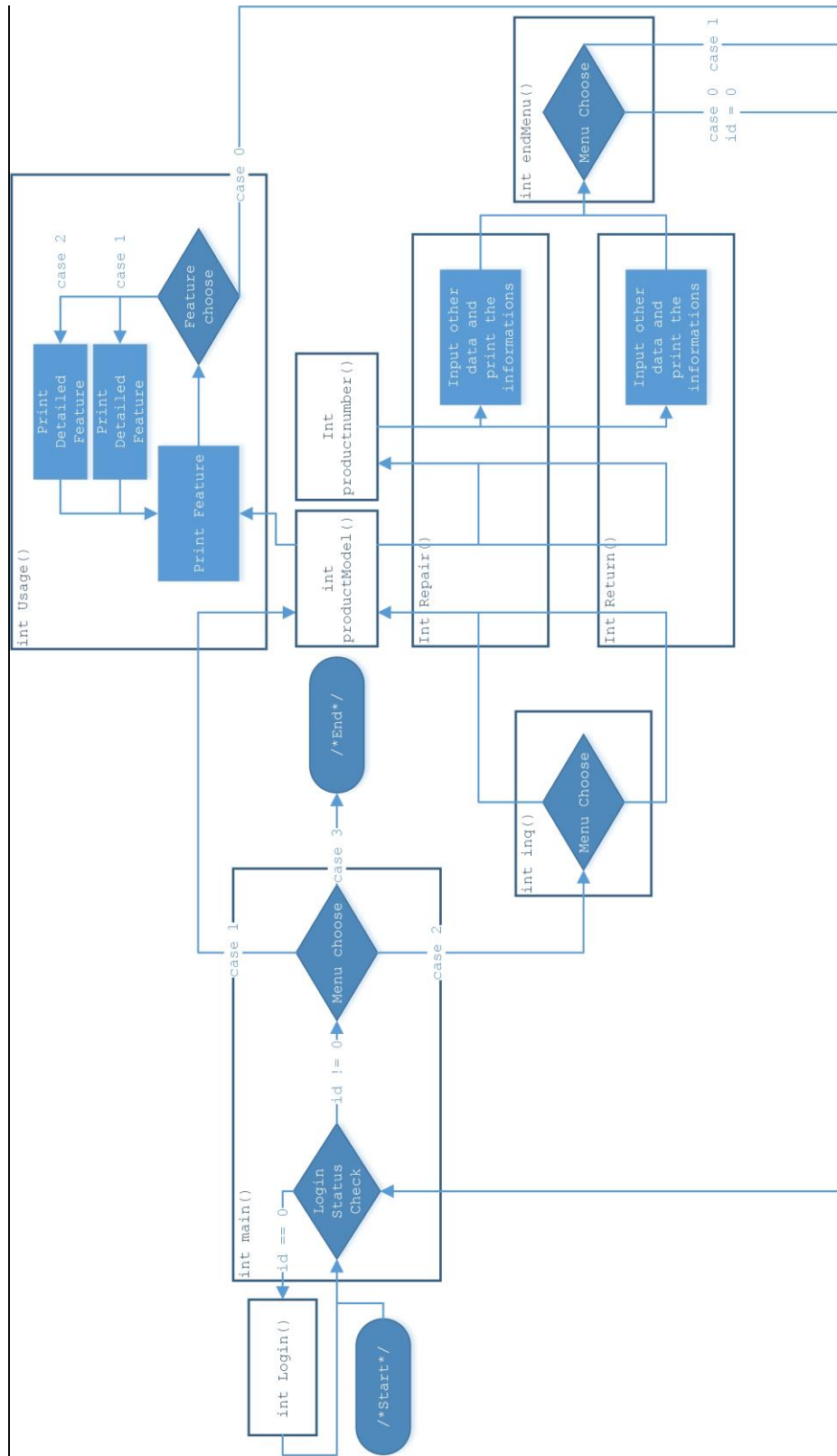Using several functions and call each other to make the menu.

Additional Features

- In the Product Repairing part, the program will detect the date today and the day user bought the product. The warranty period of every product is 1 year. If the warranty has expired, the bill will be generated automatically. The fee of repairing will be $100 every year.
- Users doesn't need to close the program to log out. Since the repair/return number will be in the form of serial numbers, the repair/return number will be automatically generated one by one.
- When users need to enter the product model and don't know what to key in, users can enter "help" to check the product list.
- There is a breadcrumb on the top of every page so that users can know where they are clearly.

Program Flow & Structure

- `int Login()`: To get the user's name and ID, and save into file.
- `int main()`: The first level menu. Also will check the login status. If the user is not logged in (`id==0`), it will call `Login()`.
- `int inq()`: The second level menu.
- `int productModel()`: To let the user input the product model and check if the input is correct.
- `int productNumber()`: To let the user input the product number and check if the number is valid (the range varies by different model).
- `int Repair`: Call `productModel()` and `productNumber()` first, then let the user input date and address. Then generate the repair number and the bill if needed.
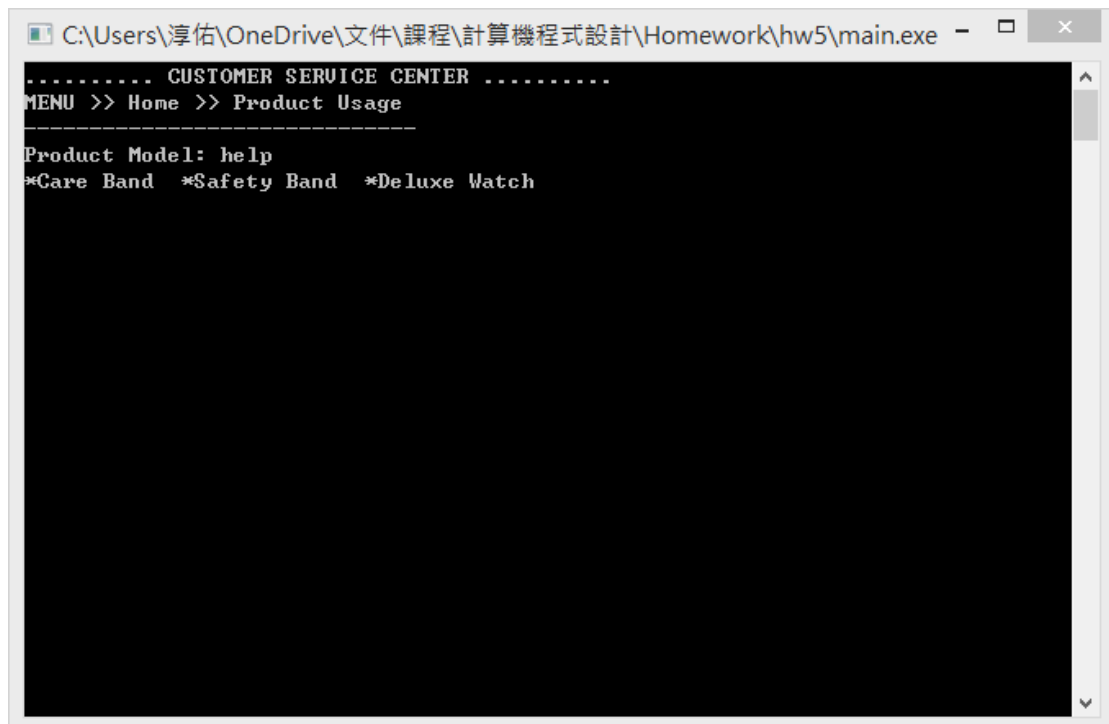
- `int Return`: Call `productModel()` and `productNumber()`, then generate the return number.
- `int endMenu`: To let users choose if they want to logout or go back to the main menu when they are finished with report or action.

Output Result


```
.......... CUSTOMER SERVICE CENTER Login ..........
Name: Jason
ID: 0001
```



```
.......... CUSTOMER SERVICE CENTER ..........
MENU >> Home >> Product Usage
--------------------------------
Product Model: help
*Care Band  *Safety Band  *Deluxe Watch
```

```
.......... CUSTOMER SERVICE CENTER ..........
MENU >> Home >> Product Usage
---------------------------------
Product Model: help
*Care Band  *Safety Band  *Deluxe Watch
Safety Band
1)Heart rate and blood pressure detection
2)Exercise Tracking and analysing
X)Sleeping status monitoring
X)Smartphone wireless conncection
5)Gyro/G sensing and safety alarming

Please Select a feature to look out the detail about it, or enter 0 to go back t
o the main menu.
```

```
.......... CUSTOMER SERVICE CENTER ..........
MENU >> Home >> Product Usage >> Heart rate and blood pressure detection
---------------------------------
The product can detect your heart rate and blood pressure, and alarm you wheneve
r your blood pressure is too high or low.

1)Heart rate and blood pressure detection
2)Exercise Tracking and analysing
X)Sleeping status monitoring
X)Smartphone wireless conncection
5)Gyro/G sensing and safety alarming

Please Select a feature to look out the detail about it, or enter 0 to go back t
o the main menu.
```

```
.......... CUSTOMER SERVICE CENTER ..........
MENU >> Home >> Product Inquiry
------------------------------------
Which kind of demand do you need?
  0>Back
  1>Product Repair
  2>Product Return
```

```
.......... CUSTOMER SERVICE CENTER ..........
MENU >> Home >> Product Inquiry >> Product Repair
------------------------------------
Product Model: Deluxe Watch
Product Number: 30001
Purchase date (YYYY MM DD): 2012 10 10
Address: Taichung
Thank you for your report. Your repair number is: 0000001

Due to your warranty has expired, you will have to pay a fee for repairing the p
roduct.

********** Repair Request Bill **********
Customer ID: 1
Product Number: 30001
Product repair fee: $200
*****************************************

Enter 0 to logout or 1 to go back to the main menu.
```