# 1st Software Engineering Homework

## 1.Preliminary（准备工作）

* For every team member in each team, please tell me your job title (Programmer, Product Manager, or Software Test Engineer) in the homework.
* For each team, create your Github or Gitee repository and tell me the address of your repository in the homework.
* Start to plan one simple software. The software does not need to be too huge with too many functionalities, which means it could be small as long as your development process follows the software engineering principles taught in our course. Yet, software with more features will still be appreciated in order to get a higher score.
* For students in the same team, the product vision(产品愿景), scenarios（场景）, and user stories（用户故事） can be the same, yet please summarize your own features for each team member.

## 2.Homework

* Write one MS word file and put it in your repository. This file should at least include:
  1. A product vision.
  2. Two scenarios.
  3. Conclude several user stories.
  4. Features of your software that are identified from the product vision, scenarios, and user stories.

# Software Engineering Homework

## Github Address:

https://github.com/Dream-Zz/Software-Engineering

## Product Vision:

Nowadays, E-pay has become a common way of payment instead of cash. So it raises a phenomenom that people spend a lot while aware a little.

Develop a bookkeeping product like an Android App to help people manage their money, in order to cultivate people a sence of financial management, so that more and more people will have a good control of their money and live a more self-discipline and happy live.

## Personas(potential users) and user stories:

1）a colleague student Jim, he often ran out of money, so he need a kind of software that could control his purchases.

2）a office worker Katrina, a lady who often shopping online so cannot save money in the end of each month, she wants to get rid of moonlite and reduce her costs on online shopping.

### Jim, a college student

Jim,age 21,is a college student (211 university) in the Great Bay Area, a coastal city. He major in Information Security.He was born in a village community north of JiangXi province, where his father drives a wagon to earn their living and he has 2 brothers who are also still in a period of need for parents to live on.

Jim have a passion in digital devices so he use his living expense to buy a lot of smartphones, earphones and so on. And he is definitely a indoorsman spending a lot of time on digital products so he loves to order take out, in which he spend most of his money.

##### Story One: Ipad for no food

In this year's Spring Festival launch of Apple's new products, Jim bought a new Ipad Pro2021 to satisfy his desire, which cost him almost all his savings. As a result, he had no money to eat for the next month. In order to survive, he chose to eat only one meal a day.

##### Story Two: Borrow money to buy headphones

One day in May, Jim was listening to the song "Sad People don't listen to Slow Songs", when he suddenly found that his Bluetooth headset was broken. Meanwhile, he had spent his money on a new Ipad which he had bought recently. For him, listening to music without headphones would be pathetic, so he borrowed money from a good friend to buy a new Bluetooth headset.

### Katrina, a office worker

Katrina, an office worker with a college degree, has her own dream in the prosperous business district of Guangzhou. However, because she is not a local person, she has to rent a house nearby to facilitate her work.

Online shopping is so popular today, as a beautiful girl with a delicate life, she often buys cosmetics, clothes, clothing and so on. And she is easily attracted by fresh products, seeing goods with the owner of the recommendation on some live streaming platforms she will be generally purchase the products without a hesitation.

##### Story One: Almost ran out of money at the end of the month

Basically, Katrina uses her salary to buy things she needs, including cosmetics, to improve her quality of life. In fact, she feels that some things are not necessary. At the same time, she has her own dream and hopes to buy her own house through her own efforts.

Finally, at the end of November, there was a family situation that needed money, and she was particularly distressed because she had run out of money at the shopping festival

##### Story Two: Overdraw money to purchase things online for happy.

It's the annual Singles' Day shopping spree, and Katrina is looking a lot of product, but the salary of this month has not been paid, and she did not want to miss the big price reduction, so she prepaid the living expenses which uneasily saved last month. When she received her express, she was only happy for a moment, and then she found that she ran out of money again, which made her depressed. As the saying goes: A flash of brilliance doesn't mean eternity. Only by accumulating money can you feel lasting happiness

## Your job title:

**Qin**: Programmer

**Chou**:(Struggling)Programmer

**Dream**: Product Manager

**Zhang**: Software Test Engineer

## Your feature in the team:

**Qin**: Take the responsibility of coding and the technical part of the product.

**Chou**: Mainly be responsible for code writing.

**Dream**: To envisage a product that can be developed by the team and satisfy the demand of the market, and act as the team leader to maintain team harmony cooperation and to assign work teammates.

**Zhang**: I was more responsible for testing problems in the later stage of the product and the direction of product construction in the early stage.

### Scenario:

### Scenario 1(Jim):

As a college student, Jim has fixed living expenses and variable part-time income. In his daily study and life, he has a variety of consumer expenses. Many times, he often doesn't know the whereabouts of his money. Through this accounting software, he can clearly record his various consumer expenses. For instance, one day he wants to buy the new AirPods, however, the software show a warning that if Jim pay for it , in the next month, he will be no money to eat. In this way, Jim will stop the purchase.

### Scenario 2(Katrina):

Katrina, using our software, will be alerted every time she wants to buy something new for the month and will be warned if she exceeds her planned spending. And Katrin knows exactly where her money is going every time she uses the app for bookkeeping, so she rarely runs out of money and has a better handle on how she spends her money.

## Features of your software:

The product may include a section that provide financial management courses and a section that offers suggestions and reminders while paying money, so eventually help the users to accomplish their **F.I.R.E. goal and live a happy life.**