

1. What is it?

The project aims to develop the software of a self-service machine for a ramen restaurant using Agile methods. To develop this system, we meet first to discuss and pool our ideas to identify specific needs. Fact-finding techniques, such as interviews, observations, etc., are used to define needs with sufficient clarity and precision. The java code was then written through an iterative process. Finally, we improved the user interface and wrote user manuals. We hope all restaurants and customers using our system t can be satisfied.

2. How to run it?

- 1) Just click Software_Engineering.jar
 - 2) Open your command line. Go to `./Project/target/classes` . And input `java seventeen.group.GUI.Start`
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3. What have we achieved?

Customer part:

- Order the meal
- Choose staple food
- Choose the basic ingredient (soup,noodles,spring onion,nori,chashu,boiled egg,spiciness)
- Choose extra ingredient (nori, boiled eggs, shoots, chashu)
- Check the order again before pay it
- Choose eat-in or take-out
- Become the member
- Member login
- Select the mode of payment(cash/postcard). The number of stamps will automatically grow if purchased with cash
- Check the final bill

Manager part:

- Login to the manager account
- Change the price / availability of staple food or ingredient.
- View statistics
- Check the sale situation for all food.
- View sales report for different types of product.

Discount: (Just a Painted Eggshell for fun !)

- The price of food will halve on Thursday!

4. Key structure of folder src.

```
src
├── main
│   ├── resources
│   └── java
│       ├── META-INF
│       ├── seventeen
│       └── group
│           ├── DAO
│           │   ├── AvailableDao.java
│           │   ├── BillDao.java
│           │   ├── CustomerDao.java
│           │   ├── PriceDao.java
│           │   ├── ReceiptDao.java
│           │   └── Impl
│           │       ├── AvailableDaoImpl.java
│           │       ├── BillDaoImpl.java
│           │       ├── CustomerDaoImpl.java
│           │       ├── PriceDaoImpl.java
│           │       └── ReceiptDaoImpl.java
│           ├── Entity
│           │   ├── Available.java
│           │   ├── Bill.java
│           │   ├── Customer.java
│           │   ├── MostPopMeal.java
│           │   ├── Price.java
│           │   └── Statistics.java
│           ├── GUI
│           │   ├── Start.java
│           │   ├── DirectPay.java
│           │   ├── DirectPay2.java
│           │   ├── Login1.java
│           │   ├── Login2.java
│           │   └── ... ..
│           └── Service
│               ├── AvailableService.java
│               ├── BillService.java
│               ├── CustomerService.java
│               ├── PriceService.java
│               ├── ReceiptService.java
│               └── Impl
│                   ├── AvailableServiceImpl.java
│                   ├── BillServiceImpl.java
│                   ├── CustomerServiceImpl.java
│                   ├── PriceServiceImpl.java
│                   └── ReceiptServiceImpl.java
```