Distributed Vending machine

1st Cycle
Development

201711354 지준호
201311280 서영일
201611254 김병찬
201914175 선정민

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Refine Layered Architecture

GUI Layer

GUI

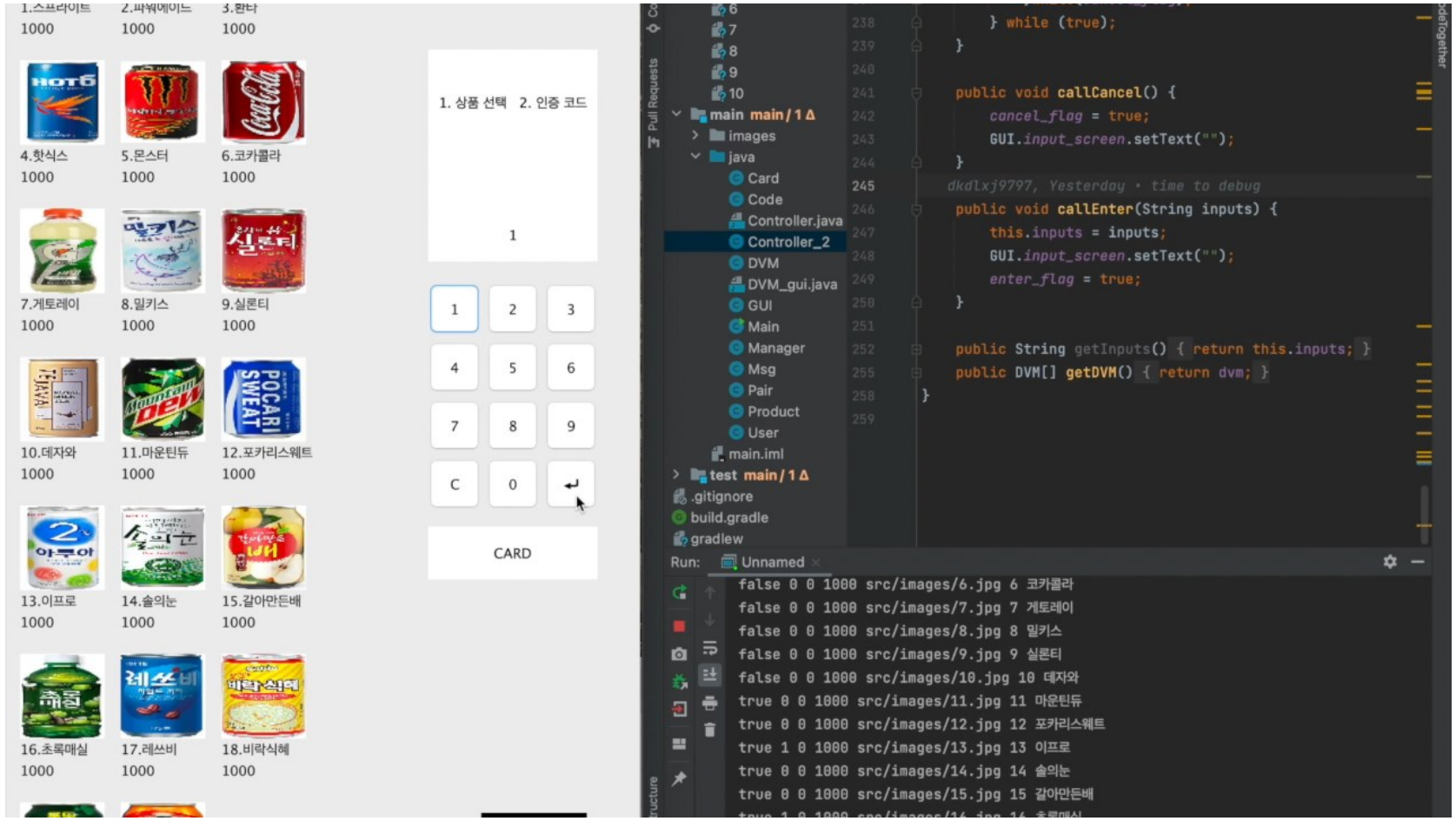
Application Logic Layer

Controller | DVM | User | Msg | Card

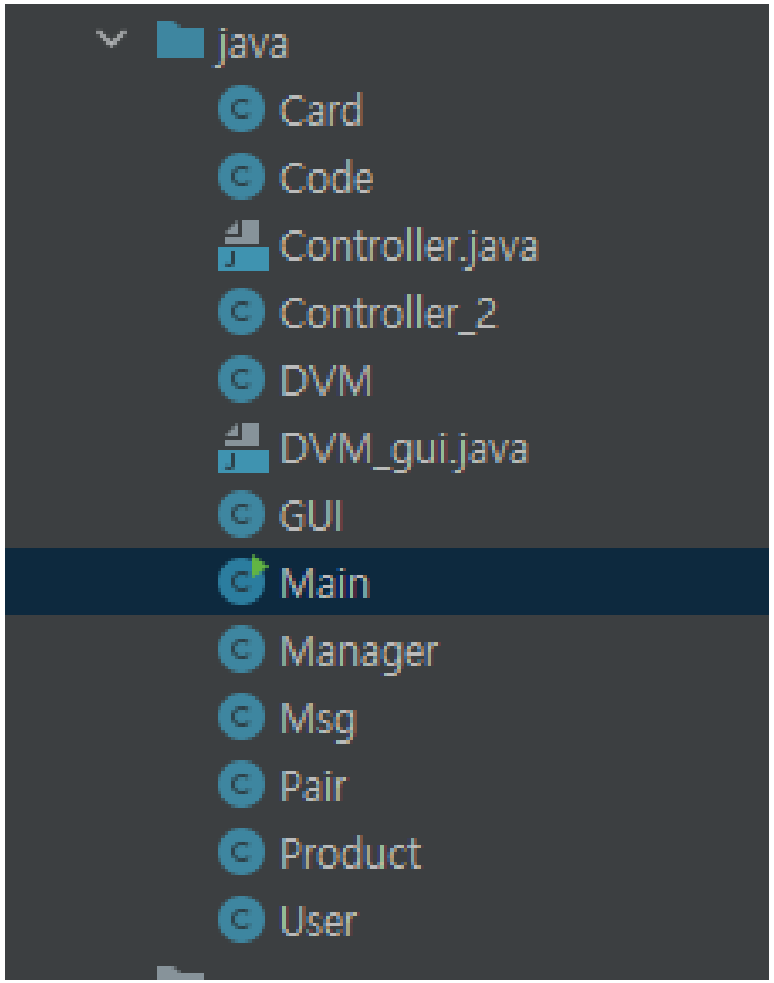
Manager | Code | Product | Pair

JVM

Demo


1000
4.핫식스
1000
5.몬스터
1000
6.코카콜라
1000
7.게토레이
1000
8.밀키스
1000
9.실론티
1000
10.데자와
1000
11.마운틴듀
1000
12.포카리스웨트
1000
13.이프로
1000
14.솔의눈
1000
15.갈아만든배
1000
16.초록매실
1000
17.레쓰비
1000
18.비락식혜
1000
1. 상품 선택 2. 인증 코드
1
1 2 3
4 5 6
7 8 9
C 0
CARD
main main / 1 Δ
images
java
Card
Code
Controller.java
Controller_2
DVM
DVM_gui.java
GUI
Main
Manager
Msg
Pair
Product
User
main.iml
test main / 1 Δ
.gitignore
build.gradle
gradlew
Run: Unnamed
false 0 0 1000 src/images/6.jpg 6 코카콜라
false 0 0 1000 src/images/7.jpg 7 게토레이
false 0 0 1000 src/images/8.jpg 8 밀키스
false 0 0 1000 src/images/9.jpg 9 실론티
false 0 0 1000 src/images/10.jpg 10 데자와
true 0 0 1000 src/images/11.jpg 11 마운틴듀
true 0 0 1000 src/images/12.jpg 12 포카리스웨트
true 1 0 1000 src/images/13.jpg 13 이프로
true 0 0 1000 src/images/14.jpg 14 솔의눈
true 0 0 1000 src/images/15.jpg 15 갈아만든배
} while (true);
}
public void callCancel() {
cancel_flag = true;
GUI.input_screen.setText("");
}
dkdlxj9797, Yesterday • time to debug
public void callEnter(String inputs) {
this.inputs = inputs;
GUI.input_screen.setText("");
enter_flag = true;
}
public String getInputs() { return this.inputs; }
public DVM[] getDVM() { return dvm; }
}

Create Java File



Main.java

```java
import java.io.*;
import java.util.Scanner;
import javax.swing.*;
    Park, 2021-04-30 오후 8:55 • checkstyle 테스트
public class Main {
    public static void main(String[] args) {

        GUI DVM_GUI = new GUI();
    }
}
```

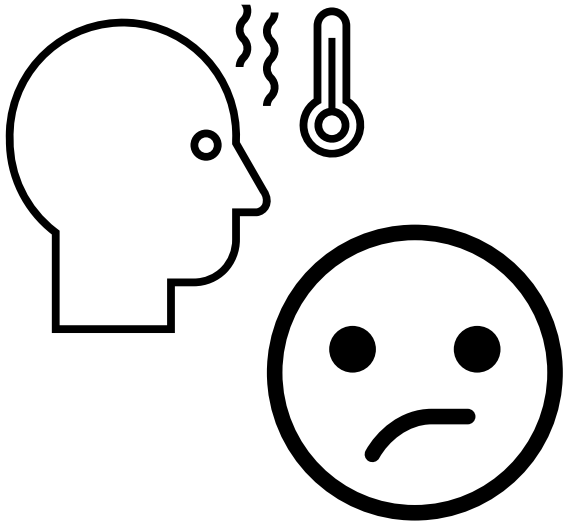
GUI.java

```
27      public GUI() {
28          main_gui();
29          cont.start_DVM(); //cont : controller instance
30      } //default
```

DVM Unit Test

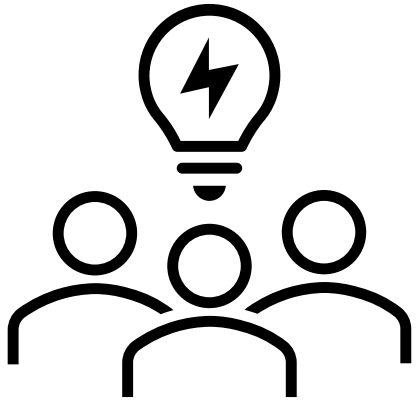
```java
public class DVMTest {
    Controller_2 cont = new Controller_2();
    DVM[] dvm = cont.getDVM();

    @Test
    public void wrongMenuInput() {
        int expected = -1;
        int actual = dvm[0].selectMenu( inputs: "3", user_type: 1);

        assertEquals(expected,actual);
    }

    @Test
    public void wrongMenuInput2() {
        int expected = -1;
        int actual = dvm[0].selectMenu( inputs: "12", user_type: 1);

        assertEquals(expected,actual);
    }
```

Failure Reason

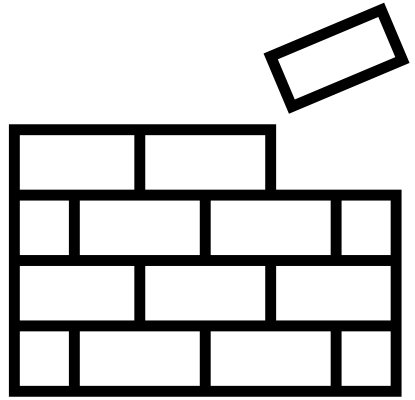


Absence of team member

Lack of development ability



Inefficient role-sharing



Frequent modification due to incorrect structural design

Thank You