



UTM
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Malaysia-Japan
International
Institute of Technology
(MJIT)

SECJ2154 – OBJECT ORIENTED PROGRAMMING

Section 15

MINI PROJECT REPORT

PERSONAL GROCERY SHOPPER SYSTEM

GROUP 2

Lecturer's Name: DR FUAD ABDULGALEEL ABDOH GHALEB

Name	Matric No.
MIZA NABILAH BINTI YUSOF	A20EC5011
MOHD ADAM FIRDAUS BIN MOHD FHAREEZAD	A20MJ8016
MUHAMMAD FAHMI HAIQAL BIN RIDWAN	A20MJ8018

Table of Contents

Project Overview	2
UML	2
Workflow of the Application	3
Screenshots of Sample Output	4
1st Run	4
Successful Log-in	4
Add Customer	4
Buy Fruit	5
Buy Canned Food	5
Display Grocery List	6
2nd Run	7
Unsuccessful Log-In	7
Errors	8
Video Demonstration	9

Project Overview

The Personal Grocery Shopper System is a project inspired by apps like GrabMart that offers on-demand everyday goods delivery service. However, in this project, our system user would be the personal shopper instead, and the system is most likely a groceries shopping list. The personal shopper can add customers, add items like fruits and canned foods in their groceries shopping list, display the list of added items along with the total prices for all items and lastly exit the system.

UML

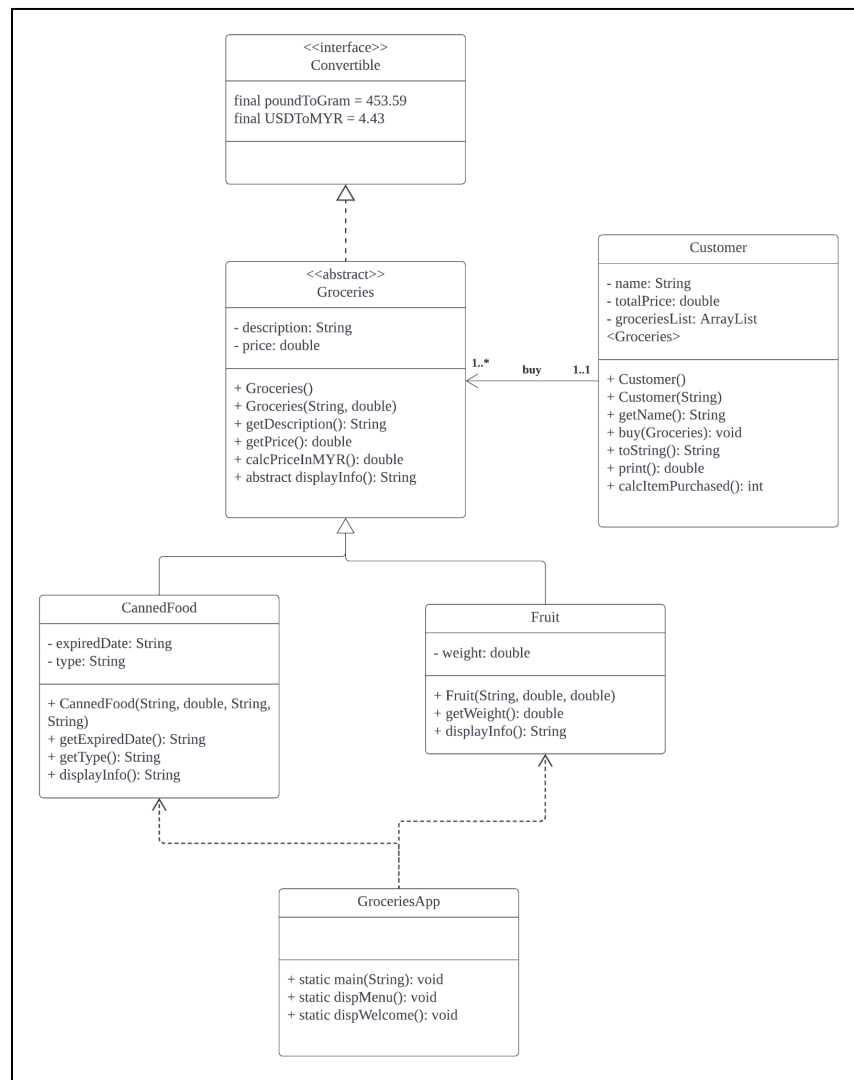


Figure 1: UML class diagram of Personal Grocery Shopper System

Workflow of the Application

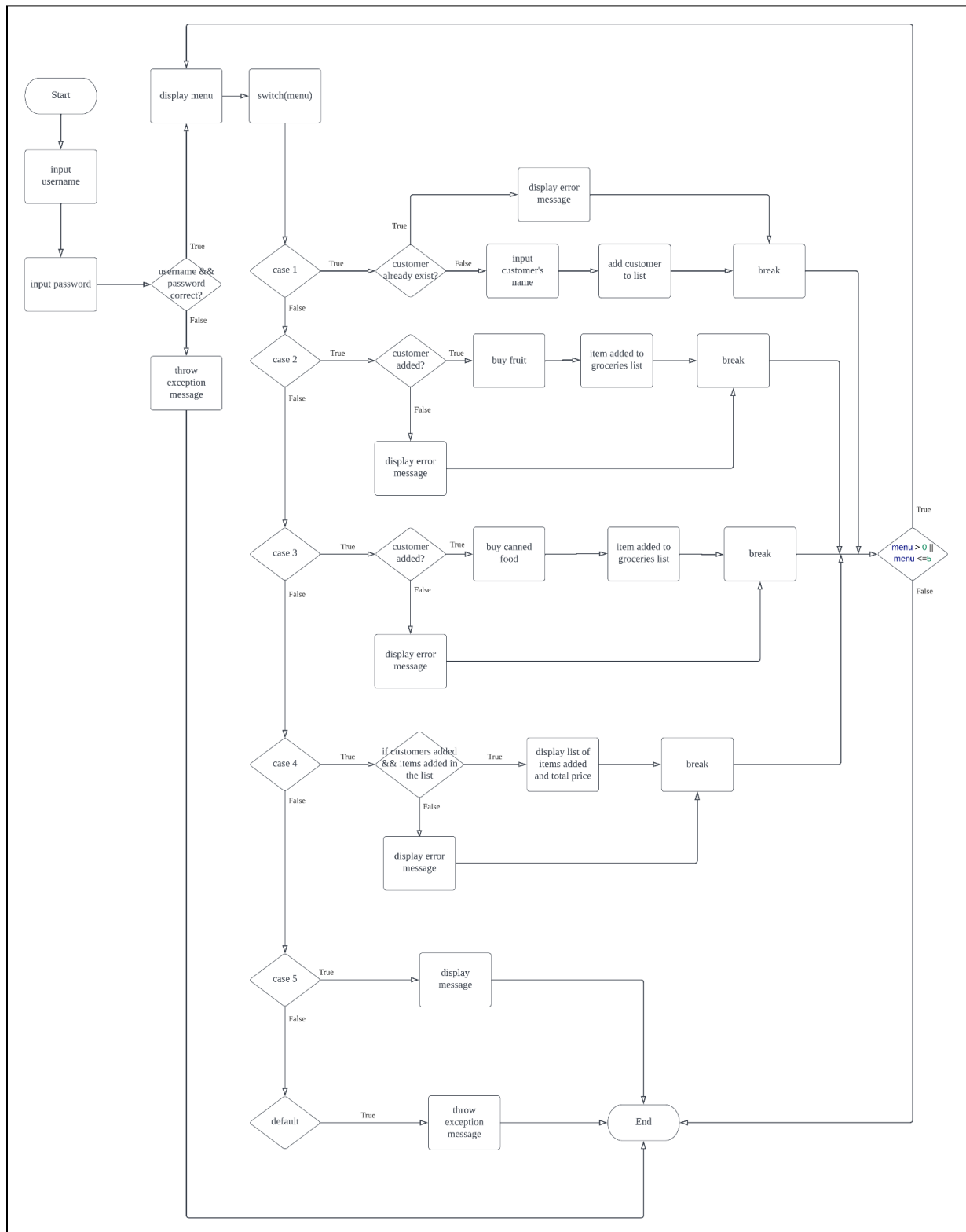


Figure 2: Workflow of Personal Grocery Shopper System

Screenshots of Sample Output

1st Run

Successful Log-in

```
*****
WELCOME TO PERSONAL GROCERY SHOPPER SYSTEM
*****

Please log in.

Username:
group2

Password:
123group

Welcome group2!

===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task:
```

Add Customer

```
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 1
<< Add Customer >>
Name:
Harris

===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: |
```

Buy Fruit

<pre>===== Menu ===== [1] Add Customer [2] Buy Fruit [3] Buy Canned Food [4] Display Grocery Shopping List [5] Exit ===== Select task: 2 << Buy Fruit >> Description: Mango Price (in USD): 4 Weight (in pound): 2</pre>	<pre>===== Menu ===== [1] Add Customer [2] Buy Fruit [3] Buy Canned Food [4] Display Grocery Shopping List [5] Exit ===== Select task: 2 << Buy Fruit >> Description: Rambutan Price (in USD): 3 Weight (in pound): 3</pre>
---	--

Buy Canned Food

```
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 3
<< Buy Canned Food >>
Description:
Sardine
Price (in USD):
6
Type:
Fish
Expiry Date:
15/10/2023
```

Display Grocery List

```
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 4
<<< Harris's grocery shopping list >>>
Number of items purchased: 3

Item 1
Grocery description: Mango
Weight in pound: 2.0
Weight in gram: 907.18
Price: USD 4.00
Price converted to Malaysian: MYR 17.72

Item 2
Grocery description: Rambutan
Weight in pound: 1.0
Weight in gram: 453.59
Price: USD 3.00
Price converted to Malaysian: MYR 13.29

Item 3
Grocery description: Sardine
Canned Food Type: Fish
Expiry date: 15/10/2023
Price: USD 6.00
Price converted to Malaysian: MYR 26.58

TOTAL PRICE: MYR 24.00
```

2nd Run

Unsuccessful Log-In

```
*****  
      WELCOME TO PERSONAL GROCERY SHOPPER SYSTEM  
*****  
  
Please log in.  
  
Username:  
group  
  
Password:  
group  
Exception in thread "main" java.lang.Exception: Invalid user log in. Please try again.  
    at GroceriesApp.main(GroceriesApp.java:22)
```


Errors

```
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 2
There is no customer. Please start by entering the customer's name.
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 3
There is no customer. Please start by entering the customer's name.
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 4
There is no customer. Please start by entering the customer's name.
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 1
<< Add Customer >>
Name:
Harris
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 4
No items were purchased!!
```

```
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 0
Exception in thread "main" java.lang.Exception: Invalid input!!
    at GroceriesApp.main(GroceriesApp.java:99)
```

```
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 1
<< Add Customer >>
Name:
Harris
===== Menu =====
[1] Add Customer
[2] Buy Fruit
[3] Buy Canned Food
[4] Display Grocery Shopping List
[5] Exit
=====

Select task: 1
Customers already exist! Current customer: Harris
```

Video Demonstration

<https://youtu.be/7GMWLEj73MI>