Software Design: Homework [Template]

Homework Number: #1

Homework Start Date: 20240322 Homework Due Date: 20240324

Homework Submitted Date: 20240322

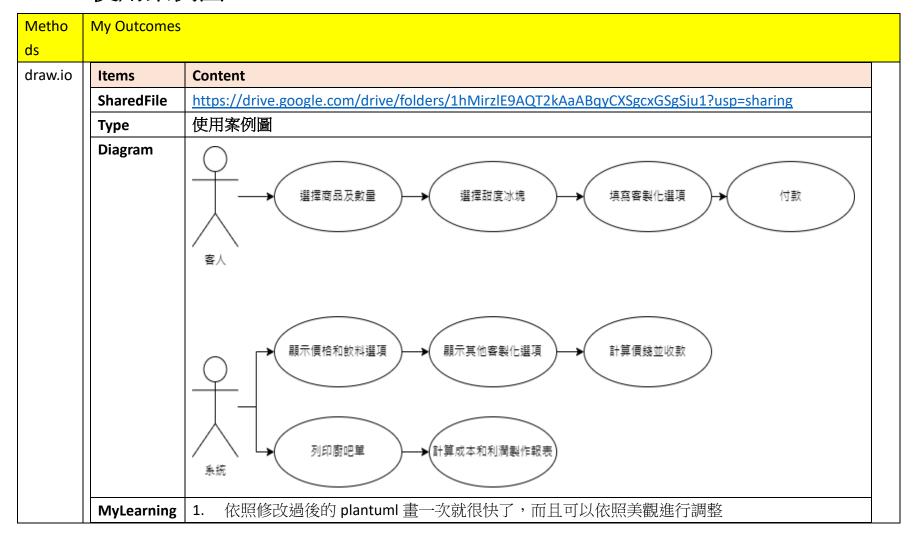
Student: 軟體系大三陳昶亨

Student ID: 411077013

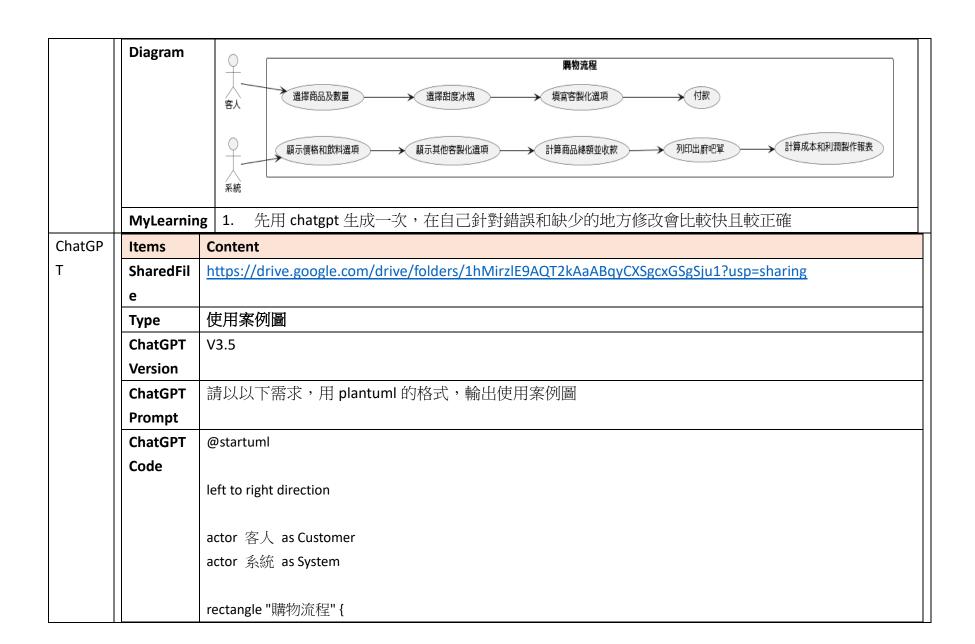
Answer:

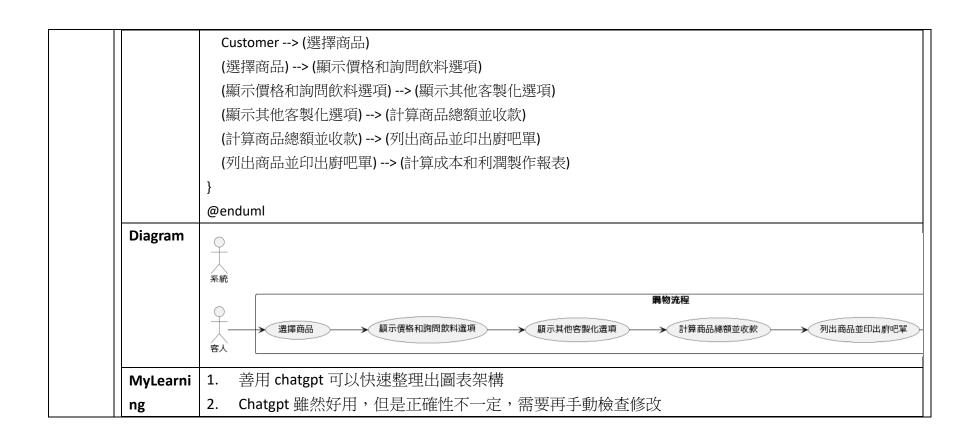
客人選擇商品,甜度冰塊及客製化選項 系統顯示商品價格以及詢問客人飲料甜度冰塊 系統顯示其他客製化選項 系統計算客人的商品總額並收款 系統列出客人的商品並印出廚吧單 系統以商品數量計算成本及利潤製成日報表和月報表

Hw1---使用案例圖

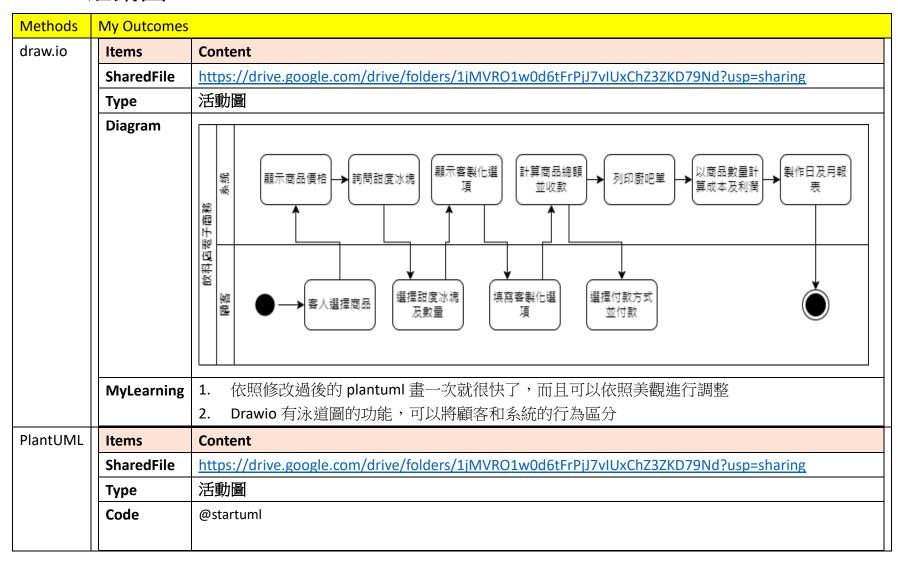


PlantU	Items	Content
ML	SharedFile	https://drive.google.com/drive/folders/1hMirzIE9AQT2kAaABqyCXSgcxGSgSju1?usp=sharing
	Туре	使用案例圖
	Code	@startuml
		left to right direction
		actor 客人 as Customer
		actor 系統 as System
		rectangle "購物流程" {
		Customer> (選擇商品及數量)
		(選擇商品及數量)>(選擇甜度冰塊)
		(選擇甜度冰塊)>(填寫客製化選項)
		(填寫客製化選項)>(付款)
		System>(顯示價格和飲料選項)
		(顯示價格和飲料選項)> (顯示其他客製化選項)
		(顯示其他客製化選項)> (計算商品總額並收款)
		(計算商品總額並收款)> (列印出廚吧單)
		(列印出廚吧單)> (計算成本和利潤製作報表)
		}
		@enduml



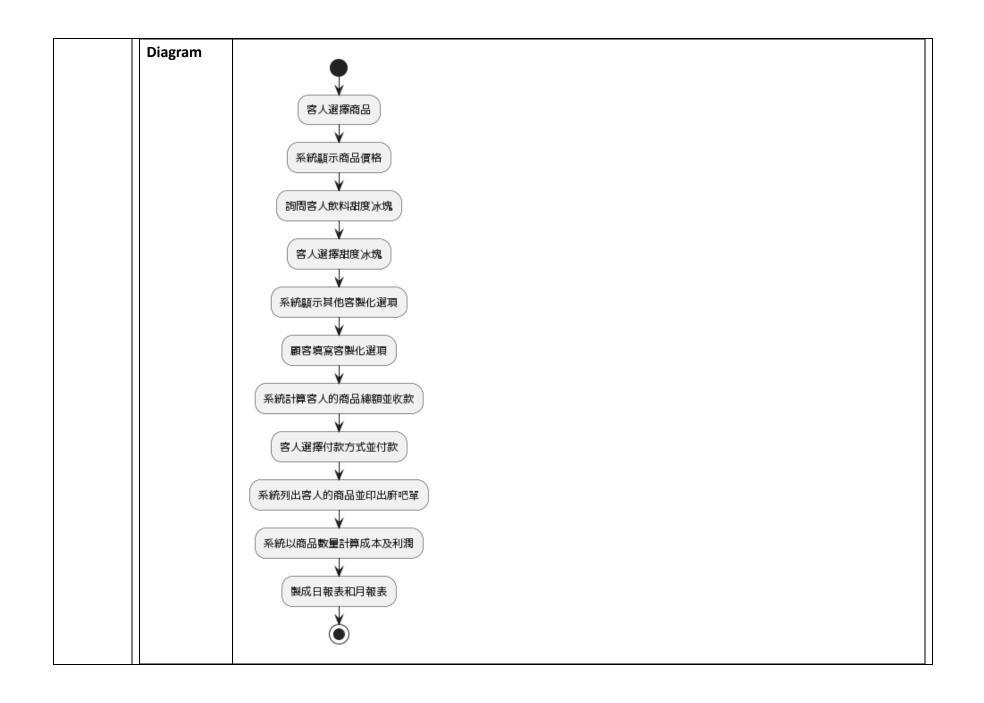


Hw2---活動圖

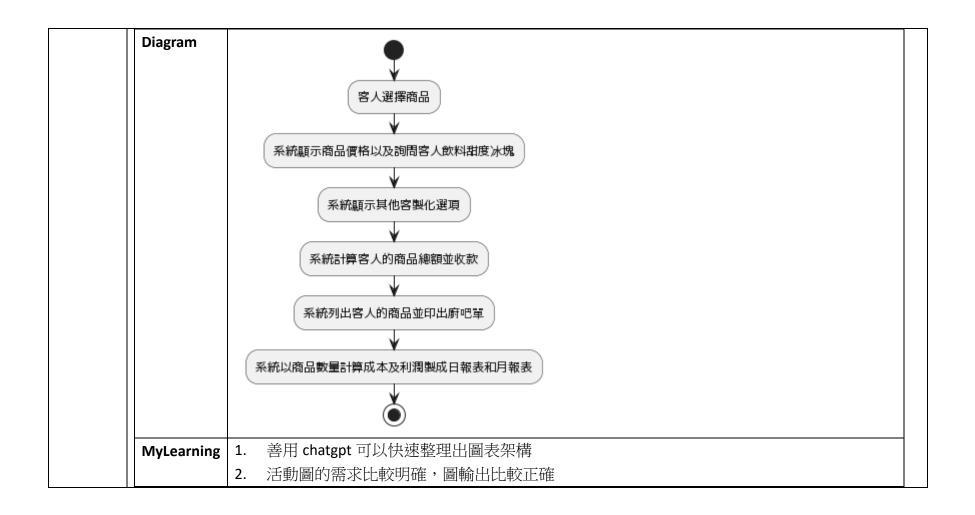


start
: 客人選擇商品;
: 条統顯示商品價格;
: 詢問客人飲料甜度冰塊;
: 客人選擇甜度冰塊;
: 系統顯示其他客製化選項;
: 顧客填寫客製化選項;
: 系統計算客人的商品總額並收款;
: 客人選擇付款方式並付款;
: 条統列出客人的商品並印出廚吧單;
: 条統列由審表和月報表;
stop

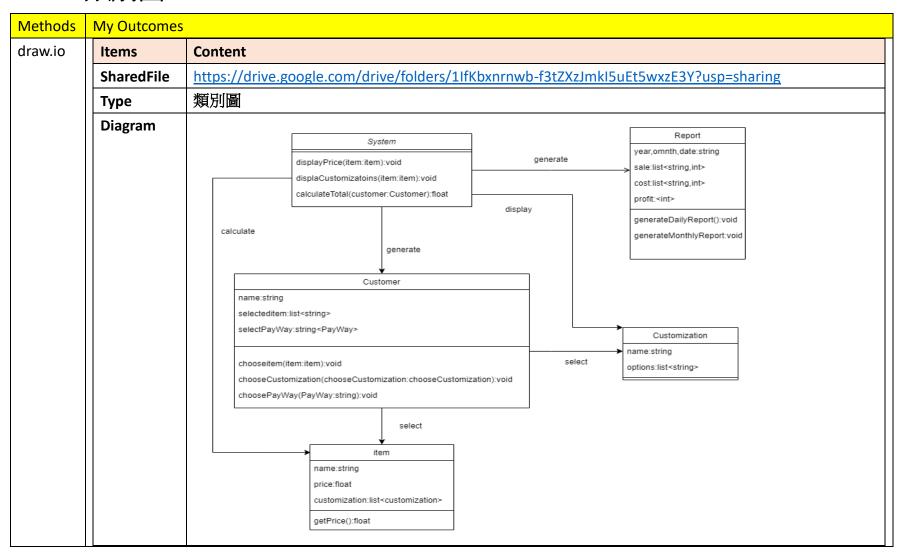
@enduml



	I - I	
	MyLearning	1. 先用 chatgpt 生成一次,在自己針對錯誤和缺少的地方修改會比較快且較正確
		2. 在 plantuml 沒有找到泳道圖的相關語法,需要用 drawio 自行修改
		3. 詳細的需求要自己新增
ChatGPT	Items	Content
	SharedFile	https://drive.google.com/drive/folders/1jMVRO1w0d6tFrPjJ7vIUxChZ3ZKD79Nd?usp=sharing
	Туре	活動圖
	ChatGPT	V3.5
	Version	
	ChatGPT	請以以下需求,用 plantuml 的格式,輸出活動圖
	Prompt	
	ChatGPT	@startuml
	Code	
		start
		:客人選擇商品;
		:系統顯示商品價格以及詢問客人飲料甜度冰塊;
		:系統顯示其他客製化選項;
		:系統計算客人的商品總額並收款;
		:系統列出客人的商品並印出廚吧單;
		:系統以商品數量計算成本及利潤製成日報表和月報表;
		stop
		@enduml



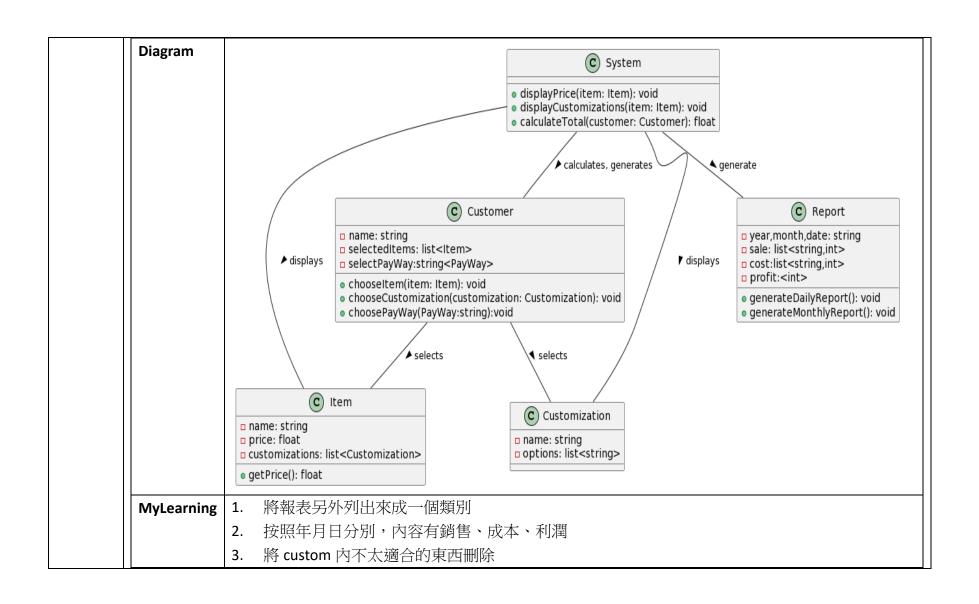
Hw3---類別圖



	MyLearning	1. 依照修改過後的 plantuml 畫一次就很快了,而且可以依照美觀進行調整
		2. 格子很多不好拉
PlantUM	Items	Content
L	SharedFile	https://drive.google.com/drive/folders/1lfKbxnrnwb-f3tZXzJmkl5uEt5wxzE3Y?usp=sharing
	Туре	活動圖
	Code	@startuml
		class Customer {
		- name: string
		- selectedItems: list <item></item>
		- selectPayWay:string <payway></payway>
		+ chooseItem(item: Item): void
		+ chooseCustomization(customization: Customization): void
		+ choosePayWay(PayWay:string):void
		}
		class Item {
		- name: string
		- price: float
		- customizations: list <customization></customization>
		+ getPrice(): float

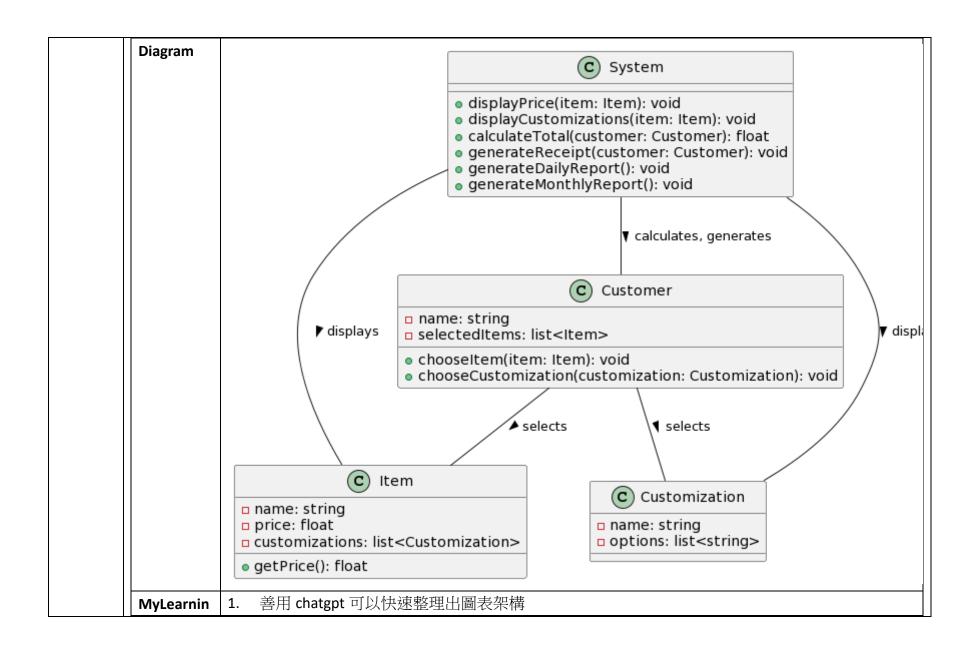
```
class Customization {
    - name: string
    - options: list<string>
class System {
    + displayPrice(item: Item): void
    + displayCustomizations(item: Item): void
    + calculateTotal(customer: Customer): float
class Report {
    - year, month, date: string
    - sale: list<string,int>
    - cost:list<string,int>
    - profit:<int>
    + generateDailyReport(): void
    + generateMonthlyReport(): void
Customer -- Item : selects >
Customer -- Customization : selects >
```

System Report : generate >
System Item : displays >
System Customization : displays >
System Customer : calculates, generates >
@enduml



ChatGPT	Items	Content
	SharedFile	https://drive.google.com/drive/folders/1lfKbxnrnwb-f3tZXzJmkl5uEt5wxzE3Y?usp=sharing
	Туре	類別圖
	ChatGPT	V3.5
	Version	
	ChatGPT	請以以下需求,用 plantuml 的格式,輸出 Class Diagram
	Prompt	
	ChatGPT	@startuml
	Code	
		class Customer {
		- name: string
		- selectedItems: list <item></item>
		+ chooseItem(item: Item): void
		+ chooseCustomization(customization: Customization): void
		}
		class Item {
		- name: string
		- price: float
		- customizations: list <customization></customization>
		+ getPrice(): float
		}
		class Customization {

```
- name: string
     - options: list<string>
class System {
    + displayPrice(item: Item): void
    + displayCustomizations(item: Item): void
    + calculateTotal(customer: Customer): float
    + generateReceipt(customer: Customer): void
    + generateDailyReport(): void
    + generateMonthlyReport(): void
Customer -- Item : selects >
Customer -- Customization : selects >
System -- Item : displays >
System -- Customization : displays >
System -- Customer : calculates, generates >
@enduml
```



g	2	2. Chatgpt 在理解需求上我們不太一樣
	3	3. 要將報表另外生成一個類別會比較妥當