



Software design specification document

2022

Project Team

ID	Name	Email
20210063	Esraa Mahmoud Abd El Mohsen	Esraamahmoud2334@gmail.com
20210235	Abdallah Hussein Ibrahim Hussein	abdallah.hus74@gmail.com
20210205	Abdelrhman Sayed Ali	
20210019	Ahmad Reda Bayoumy	

Contents

Class diagram design

2

Class diagram Explanation

3

Class diagram design





CS352: Sprint SDS– Advangers-

SDS document

Class diagram Explanation

- **Facade Design Pattern**
- This pattern is used for separating the complex subsystem and make it easier to use by implementing a Facade class (classes in controller package) that provides one, more reasonable interface.
- The classes participate (classes in controller package, classes in services package, classes in Model package)
- **Composite design pattern**
- This pattern used because can make order or composite order that consist of multiple order
- The classes participate (compoundOrderDB, Order)
- **Strategy design pattern**
- This pattern used because the same thing (generate mail) can done by different way
- The classes participate (MailGenerator, OrderPlacementMail, OrderShippmentMail)

Requirements Exposure as Web Service API

Part 1: Exposed Postman Collection

<https://orange-water-528672.postman.co/workspace/My-Workspace~80e368d2-49f0-4b98-81d2-7d781c57d032/collection/31628756-c6752499-18f7-4398-8129-665769a0c56c?action=share&creator=31628756>

Part 2:

Requirement	Exposed API
The system should list of all the products currently available for purchase should be displayed.	1- CustomerControllerAPI 2- GET /ShowProducts 3- showProducts() → operation
create an account and put a specific balance using that account.	1- CustomerControllerAPI 2- POST/login 3- login() → operation



SDS document

Customer can login to the system		1- CustomerControllerAPI 2- POST/register 3- Register()->Operation
customer can place a simple order		1- CustomerControllerAPI 2- POST/makeOrder 3- makeOrder()->operation
customer can place a compound order		1-CustomerControllerAPI 2-POST/makeCompoundOrder 3- makeCompoundOrder()->Operation
list all the details of compound orders		1- AdminControllerAPI 2- GET/ShowCompoundOrder 3- showAllCompoundOrder()->operation
list all the details of simple orders		1- AdminControllerAPI 2- GET/ ShowOrders 3- showOrders()-> operation
Ship a compound order		1- CustomerControllerAPI 2- POST\ShippingOrder 3- shipOrder()->operation
Ship the order		1- CustomerControllerAPI 2- POST\ShippingOrder 3- shipOrder()->operation
Notifications creation for various operations.		1- CustomerControllerAPI 2- Created in makeOrder()function when user make order 3- POST/makeOrder
cancel only its shipping		1- CustomerControllerAPI 2- POST/CancelShippingOrder 3- cancelShipOrder()->operation
Customers can cancel an order placement		1- CustomerControllerAPI 2- POST/CancelOrder



SDS document

		3- cancelOrder()→operation
Notifications Queue		Exist in class notification that exist in package service This notification in 2 cases <ul style="list-style-type: none"> when make order ; make notification of type(OrderPlacementMail) when ship the order; make notification of type(OrderShipmentMail)
The most notified email-address/phone-number.		1-AdminControllerAPI 2-GET/mostNotifiedCustomer mostNotifiedMail()→operation
The most sent notification template.		1-AdminControllerAPI 2-GET /mostNotifiedTemplate mostNotifiedTempalte()→operation
Admin can show all customers		1-AdminControllerAPI 2-GET /ShowCustomers showCustomers()→operation
Admin can show all orders		1-AdminControllerAPI 2-GET /ShowOrders showOrders()→operation
Admin can show order shippmemtState		1-AdminControllerAPI 2-POST /ShowOrderShippmentState showOrderShipmentState()→operation