Cairo University





Software design specification document

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Project Team

ID	Name	Email
20211042	Reem Waleed	reemw971@gmail.com
20210165	Saif El-Din Hazem	saifehazemb@gmail.com
20210331	Muhammed Ehab	mflashcr@gmail.com
20210208	Abdelrahman Ezzat	abdelrhmanakeel@gmail.com

CS352: Sprint SDS – Dream Team – Order & Notification Module



SDS Document

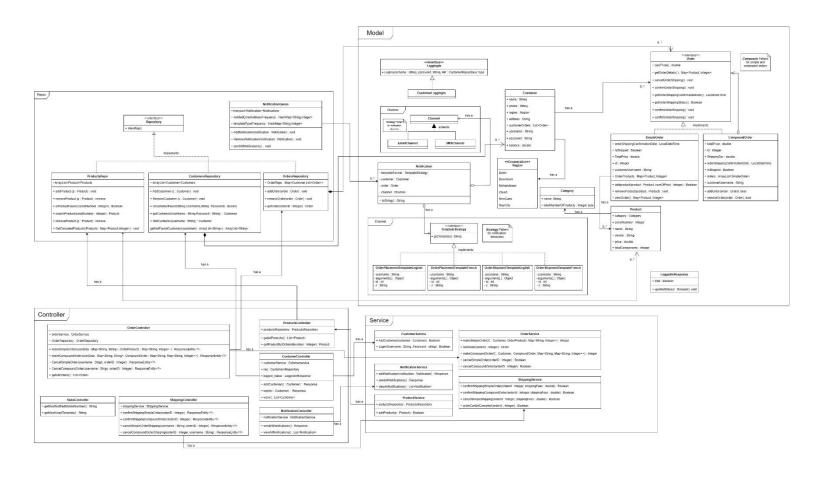
Contents

Class diagram design	3
Class diagram Explanation	
Requirements Exposure as Web Service API	
Requirement	
Exposed API	(





Class diagram design



Class Diagram Link



Class diagram Explanation

- **Strategy pattern** is used twice in the following:
 - 1. Choosing the Template Type that the customer wants to use and the
 - 2. Choosing the *channe*l which will be used to send the notification later.

We used this pattern to adhere to the Open Closed Principle which states that the code should be open for extensions and closed for modifications, accordingly we can easily add new templates without modifying the existing code.

• **Composite Pattern** is used to handle the compound orders as compound orders could consist of either a **list of simple orders** or **list of Compound orders**.

So, this pattern is used to allow dealing with both **Simple** orders and **Compound** orders through a common interface, forming a tree structure.





Requirements Exposure as Web Service API

Part 1: Exposed Postman Collection

Here's the <u>link</u> of the collection to be used in testing, First run the code then the given collection.





Part 2:

Requirement	Exposed API
Create Account	Method: POST URL:http://localhost:8080/api/customer/create { "name": "Name Example", "phonenumber": "0150000085", "region": 1, "address": "1 Example, State, Country", "username": "username", "password": "password", "balance": 1000000} Description: This is a POST request for creating a customer account. A successful
Login	request typically returns a 200 OK or 201 Created response code. Method: POST URL: http://localhost:8080/api/customer/login { "username": "username", "password": "password"} Description: This is a POST request for customer login. A successful request typically returns a 200 OK or 201 Created response code.
View all customers	Method: GET URL: http://localhost:8080/api/customer/view
View all products	Method: GET URL: http://localhost:8080/api/products/all Description: This is a GET request to view all system products





View single	Method: GET
product by ID	URL: http://localhost:8080/api/products/{orderId} Description: This is a GET request to view a specific system product by ID
View all orders	Method: GET URL: http://localhost:8080/api/order/view Description: This is a GET request to view all system orders
Make simple order	Method: POST URL: http://localhost:8080/api/order/make/simple { "Banana": 1, "Watermelon": 2, "Apple": 1}
	Description : This is a POST request for making a simple order. A successful request typically returns a 200 OK or 201 Created response code.
Cancel simple order	Method: POST URL: http://localhost:8080/api/order/cancel/simple/{username}/{orderId} Description: This is a POST request for canceling a simple order. A successful request typically returns a 200 OK or 201 Created response code.
Make compound order	Method: POST URL: http://localhost:8080/api/order/make/compound { "username": { "Product Name": Quantity }} Description: This is a POST request for making a compound order. A successful request typically returns a 200 OK or 201 Created response code.
Cancel compound order	Method: POST URL: http://localhost:8080/api/order/cancel/compound/{username}/{orderId} Description: This is a POST request for canceling a compound order. A successful request typically returns a 200 OK or 201 Created response code.
Confirm simple shipping	Method: POST URL: http://localhost:8080/api/shipping/confirmSimple/{orderId}





Cancel simple shipping	Method: POST URL: http://localhost:8080/api/shipping/cancel/simple/{username}/{orderId} Description: This is a POST request for canceling simple shipping. A successful request typically returns a 200 OK or 201 Created response code
Confirm compound shipping	Method: POST URL: http://localhost:8080/api/shipping/confirmCompound/{orderId} Description: This is a POST request for confirming compound shipping. A successful request typically returns a 200 OK or 201 Created response code
Cancel compound shipping	Method: POST URL: http://localhost:8080/api/shipping/cancel/compound/{username}/{orderId} Description: This is a POST request for canceling compound shipping. A successful request typically returns a 200 OK or 201 Created response code.
Send Notification	Method: GET URL: http://localhost:8080/api/notification/send Description: This is a GET request to send notification to customers and empty the queue.
View notification	URL: http://localhost:8080/api/notification/view Method: GET Description: This is a GET request to view system notifications.
Phone statistics	Method: GET URL: http://localhost:8080/api/stats/phone Description: This is a GET request to get the most notified phone-number.
Template statistics	Method: GET URL: http://localhost:8080/api/stats/template Description: This is a GET request to get the most used template.

You can also see these URLs mapping in swagger using this link while code is running.

→ http://localhost:8080/swagger-ui/index.html#/