



University of Westminster

Informatics Institute of Technology

Object Oriented Programming

5COSC019C.1

Module Name Object Oriented Programming

Module Leader Mr. Saman Hettiarachchi

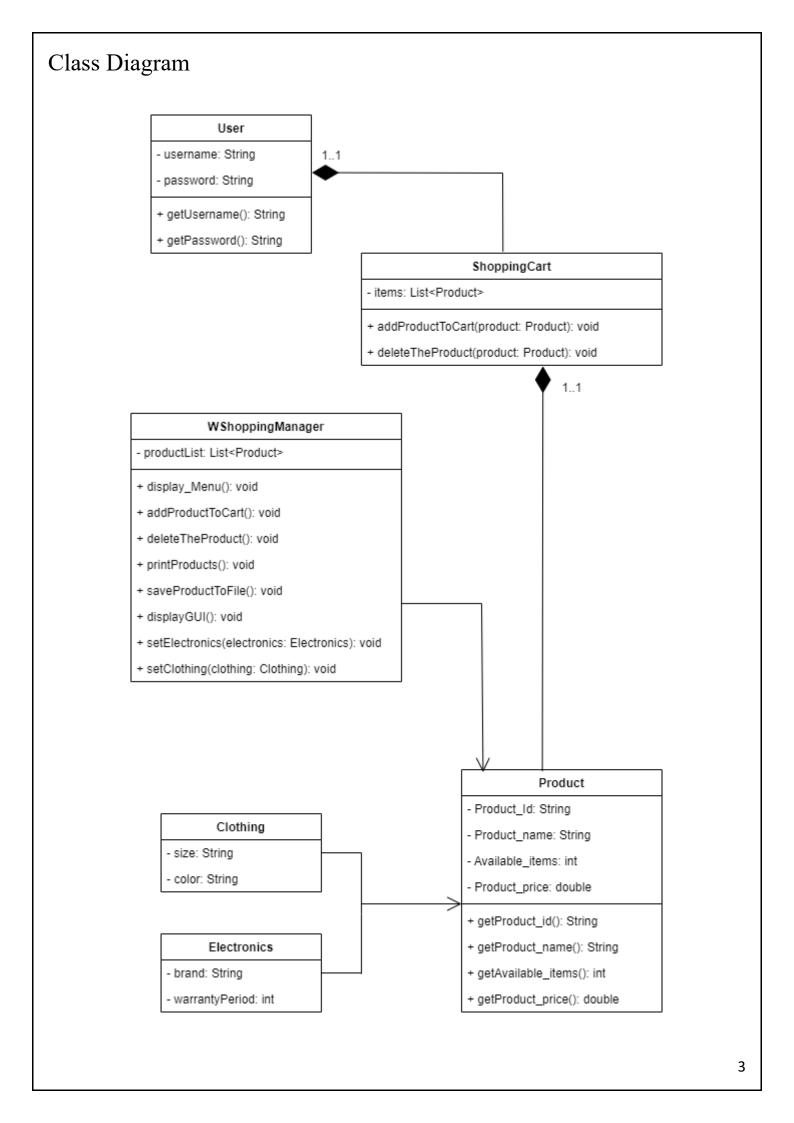
Student Name P.F.C. Samuditha

Student ID 20220467 / w1954016

Use Case Diagram Westminster Shopping Cart Add Products View Product List Delete Products Select a Product (Electronics / Clothing) Shopping Manager Print Product List Add to shopping View ShoppingCart Save to File

Calculate the Cost

Open GUI



Coursework Report — 5COSC019C Object Oriented Programming Student Name: P.F. Chamath Samuditha Student ID: 20020467 Have you submitted the video with the demonstration of your system? Yes No If the video has been submitted specify where: Blackboard On the cloud (file shared from Google drive, or OneDrive or DropBox, etc), or YouTube. Copy here the link: https://drive.google.com/file/d/18cArX3WHRzmMAAvJzllKAgFArQa1KBzE/view?usp=sharing

Phase 1 – Design and class implementation

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
Design a UML Use Case Diagram of your	Yes No	No Problem Encountered
system (submitted in a separate file).		
Design a UML Class Diagram of your	Yes No	No Problem Encountered
system (submitted in a separate file).		
Implementation Class Product	Xes No	No Problem Encountered
Implementation Class Electronics	Xes No	No Problem Encountered
Implementation Class Clothing	⊠ Yes ☐ No	No Problem Encountered
Implementation Class User	⊠ Yes ☐ No	No Problem Encountered
Implementation Class Shopping Cart	Yes No	No Problem Encountered
Implementation Interface	⊠ Yes □ No	No Problem Encountered
WestminsterShoppingManager		
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<u>Phase 2 – Console menu implementation</u>

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
Add a product in the system with all the	Xes No	No Problem Encountered
relative information (max 50 doctors)		
Delete a product from the system by	⊠ Yes □ No	No Problem Encountered
selecting the product ID. Display a		
message to confirm it has been removed		
and the total number of products in the		
system.		
Print on the screen the list of the	Nos No	No Problem Encountered
	∑ Yes ☐ No	No Problem Encountered
products in the system with all the relative information. The list should be		
ordered alphabetically.	No - No	No Deables Conservations
Save in a file entered by the user so far.	Yes No	No Problem Encountered
The user should be able to load back the		
information running a new instance of		
the application.		

Phase 3 - GUI Implementation

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Task	Did you	Student's comments (To which extent you implemented the task? Have you encountered any
	attempt the task?	problems or issue?)
The user can select the category through	Yes No	problems or issue.
the drop down menu		
The CIII is a new and a list of mandusts	No. No.	
The GUI is open and a list of products with the information as per specification	Yes No	
has been displayed		
Items with low availability are highlighted	Yes No	
in red		encountered some challenges while trying to
		integrate the custom cell renderer. Resolving these issues involved making sure that the cell renderer
		was correctly applied to the specific column and
		that the data type conversions were handled
		appropriately.
The user can select a product and all the	Yes No	
details are displayed as per specification		
in the below panel		
The user can add products to the	Yes 🔀 No	
shopping cart and all the information are		In the current implementation, the primary focus
displayed in a separate frame		of the code is on displaying product information, filtering products by category, and sorting them.
		Unfortunately, the specific functionality for users
	1	

		to add products to a shopping cart is not present in my code.
The final price is displayed correctly	Yes No	While the majority of the implemented tasks, such as displaying product information, filtering, and sorting, have been successfully addressed, I regret to inform you that there seems to be an issue with the final price display. The final price is not reflecting the expected values as per the specified rules.
The discounts, if applicable, are displayed as per specification and the final price updated accordingly	Yes No	While the code successfully displays product information, allows filtering, and enables sorting, I'm disappointed to report that the discounts, as specified, are not functioning as expected.
hase 4 – Testing and system validation		
Task	Did you	Student's comments (To which extent you
Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
Test plan. (Submitted in a separate file).	Xes No	
Implementation of an automated unit test for each scenario in the console menu.	Yes No	The current code does not include automated unit tests for the console menu scenarios. This represents a potential area for future improvement to ensure the reliability and correctness of the application.
Error Handling across all the code, input validation and code quality.	∑ Yes ☐ No	

