Coursework Report – 5COSC019C Object Oriented Programming

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Have you submitted the <u>video with the demonstration</u> of your system?	☐ No
If the video has been submitted specify where: Blackboard On the cloud (file shared from Google drive, or OneDrive or DropBox, etc), or You link: https://drive.google.com/file/d/1k8bqp6sIPczZrv4NxCkc02jWM9zHXSng/view	

Phase 1 – Design and class implementation

Task	Did you attempt the	Student's comments (To which extent you implemented the task? Have you encountered any
	task?	problems or issue?)
Design a UML Use Case Diagram of your	Xes No	No problems faced
system (submitted in a separate file).		
Design a UML Class Diagram of your	Xes No	No problem faced
system (submitted in a separate file).		
Implementation Class Product	Yes No	Successfully implemented with no issues
Implementation Class Electronics	Yes No	Successfully implemented with no issues
Implementation Class Clothing	Yes No	Successfully implemented with no issues
Implementation Class User	Yes No	Successfully implemented with no issues
Implementation Class Shopping Cart	Yes No	Successfully implemented with no issues
Implementation Interface WestminsterShoppingManager	⊠ Yes □ No	Successfully implemented with no issues

Phase 2 - Console menu implementation

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	
relative information (max 50 doctors)		Successfully implemented with no issues
Delete a product from the system by	🔀 Yes 🗌 No	
selecting the product ID. Display a		
message to confirm it has been removed		Successfully implemented with no issues
and the total number of products in the		
system.		
Print on the screen the list of the	🔀 Yes 🗌 No	
products in the system with all the		
relative information. The list should be		Successfully implemented with no issues
ordered alphabetically.		
,		
Save in a file entered by the user so far.	Xes No	
The user should be able to load back the		
information running a new instance of		Successfully implemented with no issues
the application.		

<u>Phase 3 – GUI Implementation</u>

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
The user can select the category through the drop down menu	Xes No	Successfully implemented with no issues
The GUI is open and a list of products with the information as per specification has been displayed	X Yes No	Successfully implemented with no issues
Items with low availability are highlighted in red	Xes No	Successfully implemented with no issues
The user can select a product and all the details are displayed as per specification in the below panel	Xes No	Successfully implemented with no issues

The user can add products to the shopping cart and all the information are displayed in a separate frame	Yes No	Successfully implemented with no issues
The final price is displayed correctly	Xes No	Successfully implemented with no issues
The discounts, if applicable, are displayed as per specification and the final price updated accordingly	Yes No	Discounts gets appliyed and the final price gets updated accordingly but the firstPurchase discount is not implemented properly, the code behind it is done but its not implemented on the gui because once a user signs up the user is required to login which then takes off the condition of applying the firstPurchase discount for new users

Phase 4 - Testing and system validation

Task Test plan. (Submitted in a separate file).	Did you attempt the task? Yes No	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?) Most test cases have been tested
Implementation of an automated unit test for each scenario in the console menu.	Yes No	Unit tests are done for most methods some of the unit tests being wrong , the unit test for methods that require user input tends to wait indefinitely for an input although it is provived some issues arise due to the use of input.nextline() after using input.next()
Error Handling across all the code, input validation and code quality.	⊠ Yes ☐ No	Input validations and error handlings are used on most places where its necessary