Coursework Report – 5COSC019C Object Oriented Programming

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Have you submitted the video with the demonstration of your system?

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/17WG25sCVFZmFLWZbJg3ltLI0w5JYCPzX/view?usp=sharing

Phase 1 – Design and class implementation

Task	Did you	Student's comments (To which extent you
	attempt the task?	implemented the task? Have you encountered any problems or issue?)
Design a UML Use Case Diagram of your system (submitted in a separate file).	Yes No	A proper use case diagram was created to cover each scenario.
Design a UML Class Diagram of your system (submitted in a separate file).	Yes No	A proper class diagram was created to cover each scenario.
Implementation Class Product	∑ Yes ☐ No	A proper product class created to fulfill functionality.
Implementation Class Electronics	∑ Yes ☐ No	A proper electronic class created to fulfill functionality.
Implementation Class Clothing	∑ Yes ☐ No	A proper electronic class created to fulfill functionality.
Implementation Class User	∑ Yes ☐ No	The User class is created with only user credentials and getter methods. No other functionality based on user class is implemented.
Implementation Class Shopping Cart	⊠ Yes □ No	A proper shopping cart class created to update shopping cart Jframe .
Implementation Interface WestminsterShoppingManager	⊠ Yes ☐ No	A proper class and interface created manage and work on each functionality.

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	Functionality is performed properly as per
relative information (max 50 doctors)		requirement.
Delete a product from the system by	Yes No	
selecting the product ID. Display a		Functionality is performed properly as per
message to confirm it has been removed		requirement.
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		Functionality is performed properly as per
relative information. The list should be		requirement.
ordered alphabetically.		
Save in a file entered by the user so far.	Xes No	
The user should be able to load back the		Functionality is performed properly as per
information running a new instance of		requirement.
the application.		

Phase 3 - GUI Implementation

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	Functionality is performed properly as per requirement.
The GUI is open and a list of products with the information as per specification has been displayed	∑ Yes ☐ No	Functionality is performed properly as per requirement.
Items with low availability are highlighted in red	∑ Yes ☐ No	Functionality is performed properly as per requirement.
The user can select a product and all the details are displayed as per specification in the below panel	Yes No	Functionality is performed properly as per requirement.
The user can add products to the shopping cart and all the information are displayed in a separate frame	∑ Yes ☐ No	Functionality is performed properly as per requirement.
The final price is displayed correctly	∑ Yes ☐ No	The final price is display correctly without adding the first purchase discount.

The discounts, if applicable, are displayed	Xes No	
as per specification and the final price		The final price is display correctly without adding
updated accordingly		the first purchase discount.

Phase 4 – Testing and system validation

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	The test plan is designed to cover every scenario
Implementation of an automated unit	⊠ Yes ☐ No	Implement Junit testing for console menu options
test for each scenario in the console		successfully.
menu.		
Error Handling across all the code, input validation and code quality.	Xes No	Used proper error handling techniques across all codes, implemented input validation and improved code quality.