Coursework Report – 5COSC019C Object Oriented Programming

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Have you submitted the <u>video with the demonstration</u> 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://youtu.be/pR24B5Pq_Do

Phase 1 – Design and class implementation

Task	Did you attempt the task?	Student's comments (To which extent you 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	
Design a UML Class Diagram of your system (submitted in a separate file).	☒ Yes ☐ No	
Implementation Class Product	☒ Yes ☐ No	
Implementation Class Electronics	☒ Yes ☐ No	
Implementation Class Clothing	☒ Yes ☐ No	
Implementation Class User	☒ Yes ☐ No	
Implementation Class Shopping Cart	☒ Yes ☐ No	
Implementation Interface WestminsterShoppingManager	☒ Yes ☐ No	

Phase 2 – Console menu implementation

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

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	☒ Yes ☐ No	
The GUI is open and a list of products with the information as per specification has been displayed	☒ Yes ☐ No	
Items with low availability are highlighted in red	☒ Yes ☐ No	
The user can select a product and all the details are displayed as per specification in the below panel	☒ Yes ☐ No	
The user can add products to the shopping cart and all the information are displayed in a separate frame	☒ Yes ☐ No	
The final price is displayed correctly	☒ Yes ☐ No	
The discounts, if applicable, are displayed as per specification and the final price updated accordingly	☒ Yes ☐ No	

Phase 4 – Testing and system validation

Task	Did you attempt the task?	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?)
Test plan. (Submitted in a separate file).	☒ Yes ☐ No	
Implementation of an automated unit test for each scenario in the console menu.	☒ Yes ☐ No	
Error Handling across all the code, input validation and code quality.	☒ Yes ☐ No	