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://drive.google.com/drive/folders/1H5Yy0YKbzIrW8ptSGIde6fGrxmtGUea3?usp=drive_link

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	Fully implemented. No issues encountered.
Design a UML Class Diagram of your system (submitted in a separate file).	☒ Yes ☐ No	Fully implemented. No issues encountered.
Implementation Class Product	☒ Yes ☐ No	Fully implemented. No issues encountered.
Implementation Class Electronics	☒ Yes ☐ No	Fully implemented. No issues encountered.
Implementation Class Clothing	☒ Yes ☐ No	Fully implemented. No issues encountered.
Implementation Class User	☒ Yes ☐ No	Fully implemented. No issues encountered.
Implementation Class Shopping Cart	☒ Yes ☐ No	Fully implemented. No issues encountered.
Implementation Interface WestminsterShoppingManager	☒ Yes ☐ No	Fully implemented. No issues encountered.

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	Fully implemented. No issues encountered.
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	Fully implemented. No issues encountered.
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	Fully implemented. No issues encountered.
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	Fully implemented. No issues encountered.

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	Fully implemented. No issues encountered.
The GUI is open and a list of products with the information as per specification has been displayed	☒ Yes ☐ No	Fully implemented. No issues encountered.
Items with low availability are highlighted in red	☐ Yes ☒ No	Not implemented.
The user can select a product and all the details are displayed as per specification in the below panel	☒ Yes ☐ No	Fully implemented. No issues encountered.
The user can add products to the shopping cart and all the information are displayed in a separate frame	☒ Yes ☐ No	Fully implemented. No issues encountered.
The final price is displayed correctly	☒ Yes ☐ No	Fully implemented. No issues encountered.

| The discounts, if applicable, are displayed as per specification and the final price updated accordingly | ☐ Yes ☒ No | Not implemented |

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	Fully implemented. No issues encountered.
Implementation of an automated unit test for each scenario in the console menu.	☐ Yes ☒ No	Not implemented
Error Handling across all the code, input validation and code quality.	☒ Yes ☐ No	Fully implemented. No issues encountered.