

Coursework Report – 5COSC019C Object Oriented Programming

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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:**

Program Demonstration - <https://drive.google.com/file/d/1DuxqY7g5iUOeI67X3Lv7Izbkn6ejdLFm/view?usp=sharing>

Code Explanation - <https://drive.google.com/file/d/1HYu251sO629Zq0zrOiZQ6VbjAV7F84bj/view?usp=sharing>

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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Designed
Design a UML Class Diagram of your system (submitted in a separate file).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Designed
Implementation Class Product	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
Implementation Class Electronics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
Implementation Class Clothing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
Implementation Class User	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
Implementation Class Shopping Cart	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
Implementation Interface WestminsterShoppingManager	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented

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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
Print on the screen the list of the products in the system with all the relative information. The list should be ordered alphabetically.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented

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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented Got mixed up on how to select the drop-down option but with time figured it out and completed.
The GUI is open and a list of products with the information as per specification has been displayed	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented On how to access the selected product details – but with given time got to know.
Items with low availability are highlighted in red	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented

The user can select a product and all the details are displayed as per specification in the below panel.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
The user can add products to the shopping cart and all the information are displayed in a separate frame	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
The final price is displayed correctly	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully Implemented
The discounts, if applicable, are displayed as per specification and the final price updated accordingly	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fully 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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completed
Implementation of an automated unit test for each scenario in the console menu.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completed
Error Handling across all the code, input validation and code quality.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completed