

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:**
https://drive.google.com/file/d/1tXTtJsi_z2u3cYq-7tzsWRT0Hny0ABCs/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 the UML use case diagram
Design a UML Class Diagram of your system (submitted in a separate file).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Designed the UML class diagram
Implementation Class Product	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Implemented the class Person
Implementation Class Electronics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Implemented the class Electronics
Implementation Class Clothing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Implemented the class Clothing
Implementation Class User	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Implemented the class User
Implementation Class Shopping Cart	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Implemented the class ShoppingCart
Implementation Interface WestminsterShoppingManager	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Implemented the interface WestminsterShoppingManager

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	Add a product in the system with all the relative information
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	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.
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	Print on the screen the list of the products in the system with all the relative information. The list should be ordered alphabetically.
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	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.

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	User can select the category
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	GUI is opened and list of products with the information displayed
Items with low availability are highlighted in red	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Items with low availability highlighted
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	User can select a product and details are displayed

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	User can add products to the shopping cart and information are displayed
The final price is displayed correctly	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Final price displayed correctly
The discounts, if applicable, are displayed as per specification and the final price updated accordingly	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Final price shown with the discounts correctly. (If applicable discounts

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	Done test plan correctly
Implementation of an automated unit test for each scenario in the console menu.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Done implementation of an automated unit test for each scenario in the console menu
Error Handling across all the code, input validation and code quality.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Done all the Error Handling across all the code, input validation and code quality.