



Informatics Institute of Technology BEng (Hons) in Software Engineering

Object Oriented Programming cosco19c Coursework Report

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Group - G02

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 Your https://drive.google.com/drive/folders/1UBERXnkUZgqWuI4sJipdJW9KMYpMDo		<u>ink</u>

Phase 1 – Design and class implementation

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	
		problems or issues?)
Design a UML Use Case Diagram of your	□ ✓ Yes □ No	Completed with all possible scenarios
system (submitted in a separate file).		implemented.
Design a UML Class Diagram of your	□ √ Yes □ No	Completed with all the classes and methods,
system (submitted in a separate file).		attributes of the code.
Implementation Class Product	☐ ✓ Yes ☐ No	Fully completed.
implementation class Froduct		Tally completed.
Implementation Class Electronics	□ ✓ Yes □ No	Fully completed.
Implementation Class Clothing	☐ ✔ Yes ☐ No	Fully completed.
implementation class clothing		runy completed.
Implementation Class User	☐ ✓ Yes ☐ No	Fully Completed.
Implementation Class Shopping Cart	☐ ✓ Yes ☐ No	Fully Completed.
implementation class shopping care	les en no	rany completed.
Implementation Interface	□ √ Yes □ No	Fully Completed.
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 Products)	□ ✓ Yes □ No	Fully Completed. The maximum number of products that can be added is restricted to 50.
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 completed. Product deleted by ID with a confirmation message and updated product count.
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 completed. All products are displayed in alphabetical order, with all the required information.
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.	□ V Yes □ No	Fully Completed. The system loads the file based on user input, returns the information and runs as a new instance.

<u>Phase 3 – GUI Implementation</u>

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 Completed. The drop-down menu is displayed.
The GUI is open, and a list of products with the information as per specification has been displayed.	□ V Yes □ No	Fully completed. All products added by the admin are displayed.
Items with low availability are highlighted in red.	□ V Yes □ No	Fully completed. Products less than 5 are marked in red.

The user can select a product and all the details are displayed as per specification in the below panel.	□ ✓ Yes □ No	Fully completed. The user selection is displayed once added to the cart.
The user can add products to the shopping cart and all the information are displayed in a separate frame.	□ ✓ Yes □ No	Fully completed. The shopping cart frame pops up, and displays total.
The final price is displayed correctly.	□ V Yes □ No	Fully completed. Total is displayed.
The discounts, if applicable, are displayed as per specification, and the final price is updated accordingly.	□Yes ✔ □ No	Partially completed.

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	Uploaded in a separate file.
Implementation of an automated unit test for each scenario in the console menu.	□Yes □ √ No	Not completed.
Error Handling across all the code, input validation and code quality.	☐ V Yes ☐ No	All the errors prompted are handled entirely.