Coursework Report – 5COSC019C Object Oriented Programming

Student ID: 20220119/ w1999522

Have you submitted the video with the demonstration of your system?

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/1lm4q7Qvo7wyYiX3Ddnm4T8u7WQAUPA9k/view?usp=sharing

<u>Phase 1 – Design and class implementation</u>

Student Name: Sanjula Sunath

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
Design a UML Use Case Diagram of your	Xes No	No issues
system (submitted in a separate file).		
Design a UML Class Diagram of your	Xes No	
system (submitted in a separate file).		No issues
Implementation Class Product	Xes No	
		I have added a class called "products" to the
		application.
Implementation Class Electronics	Xes No	
		I have added a class called " Electronics " to the
		application
Implementation Class Clothing	Xes No	
		I have added a class called " Clothing " to the
		application
Implementation Class User	Xes No	
		I have added a class called " User " to the
		application
Implementation Class Shopping Cart	Xes No	I have added a class called " Shopping Cart " to the
		application
Implementation Interface	⊠ Yes ☐ No	
WestminsterShoppingManager		I have added an Interface called
		"WestminsterShoppingManager " to the
		application

Phase 2 - Console menu implementation

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
Add a product in the system with all the	Xes No	The system can obtain product details without any
relative information (max 50 doctors)		issues
Delete a product from the system by	🔀 Yes 🗌 No	
selecting the product ID. Display a		If a product is removed from the system, a
message to confirm it has been removed		notification identifying the removed product will
and the total number of products in the		appear
system.		
Print on the screen the list of the	🔀 Yes 🗌 No	
products in the system with all the		Program prints a list of items with all of the data
relative information. The list should be		without any mistakes on the screen.
ordered alphabetically.		
Save in a file entered by the user so far.	🛛 Yes 🗌 No	The information saved in a file that the user has
The user should be able to load back the		already entered. Reloading the data with a fresh
information running a new instance of		instance of the program is an option for the user.
the application.		

Phase 3 - GUI Implementation

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
The user can select the category through	Xes No	
the drop down menu		There are no mistakes in the product list
		visualization. It is arranged alphabetically as well.
The GUI is open and a list of products	Xes No	
with the information as per specification		No issues
has been displayed		
Items with low availability are highlighted	☐ Yes ☐ No	
in red		
The user can select a product and all the	⊠ Yes □ No	The control of the last test to the control of the
details are displayed as per specification		There are no mistakes in the product list
in the below panel		visualization, all the details of the products are
		displayed clearly
The user can add products to the	Yes No	
shopping cart and all the information are	M les NO	No issue with that part, it works correctly
displayed in a separate frame		No issue with that part, it works correctly
displayed in a separate frame		
The final price is displayed correctly	⊠ Yes □ No	
The mar price is displayed correctly		Final price is displayed but discount prices are not
		available

The discounts, if applicable, are displayed	Yes 🔀 No	
as per specification and the final price		
updated accordingly		

Phase 4 – Testing and system validation

Task	Did you	Student's comments (To which extent you
	attempt the	implemented the task? Have you encountered any
	task?	problems or issue?)
Test plan. (Submitted in a separate file).	Xes No	
		The system's whole test plan has been uploaded to
		a new document
Implementation of an automated unit	Xes No	
test for each scenario in the console		Programme have run an automated test using
menu.		Junit
Error Handling across all the code, input	Xes No	When entering data incorrectly, the user may get
validation and code quality.		error messages and be able to add or provide
		inputs more than once.