

Coursework Report – 5COSC019C Object Oriented Programming

Student Name: ...Chalani Dinitha.....

Student ID:...20211032/ w1953891.....

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/1f4GXtKyOaTkgEUCGWW3Jng3TeKqtRHW1/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 | Submitted the UML use case diagram in a separate pdf. |
| Design a UML Class Diagram of your system (submitted in a separate file). | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Submitted the UML class diagram in a separate pdf. |
| Implementation Class Product | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implemented the Product Class as an abstract super class. |
| Implementation Class Electronics | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implemented the Electronics Class sub class. |
| Implementation Class Clothing | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implemented the Clothing Class sub class. |
| Implementation Class User | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implemented the User class. |
| Implementation Class Shopping Cart | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implemented the Shopping Cart class. |
| Implementation Interface WestminsterShoppingManager | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implemented the WestminsterShoppingManager class. |

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 | Can add new Clothing product with their information of the name, available items, price, size and colour. Can add new electronics with their name, brand, warranty period. |
| 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 | Can delete a product entering the product Id. Display the remaining number of products. |
| 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 | Can print the list of products and their 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. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Can save all the products and their information in a text file. It 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 through the drop-down menu |
| 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 | A list of products with the information as per specification has been displayed |
| Items with low availability are highlighted in red | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Items with low availability are highlighted in red |
| 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 | The user can select a product and all the details are displayed as per specification in the below panel |

| | | |
|--|---|---|
| | | |
| 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 | The user can add products to the shopping cart |
| The final price is displayed correctly | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | The final price is 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 | The discounts, if applicable, are displayed as per specification. |

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 | Submitted test plan in a separate fille. |
| Implementation of an automated unit test for each scenario in the console menu. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Implement 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 | Used try catch statements for the error handling. |