# **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/1tBxKfLsVy4gAAz2SffhngGluHQoJPJU2/view?usp=sharing**

**Phase 1 – Design and class implementation**

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| **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). | Yes  No | Use case diagram drew clearly. |
| Design a UML Class Diagram of your system (submitted in a separate file). | Yes  No | Class diagram drawn clearly. Methods and attributes can identify clearly. |
| Implementation Class Product | Yes  No | Product class and necessary getters and setters were added. |
| Implementation Class Electronics | Yes  No | Electronic class and necessary getters and setters were added. |
| Implementation Class Clothing | Yes  No | Clothing class and necessary getters and setters were added. |
| Implementation Class User | Yes  No | Clothing user and necessary getters and setters were added. |
| Implementation Class Shopping Cart | Yes  No | Shopping cart class created and necessary methods and list are added. |
| Implementation Interface WestminsterShoppingManager | Yes  No | Interface implemented. |

**Phase 2 – Console menu implementation**

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| **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) | Yes  No | If the user tries to enter more than 50 items, the system shows an error message. |
| 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 | Products can be removed using product ID; after removing the product, the system displays how many products are left 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. | Yes  No | It’ll print all items stored in the system. |
| 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. | Yes  No | File saving successfully with the data that the user inputs. When the program runs again, those old stored data will load into the system. |

**Phase 3 – GUI Implementation**

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| **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 | Categories can be selected successfully by using the drop-down menu. |
| The GUI is open and a list of products with the information as per specification has been displayed | Yes  No | Added products will displayed in the GUI successfully |
| Items with low availability are highlighted in red | Yes  No | Items that have low availability are highlighted in red. Even when items get low and when they get closer to the limit, they’ll be shown as red. |
| The user can select a product and all the details are displayed as per specification in the below panel | Yes  No | Everything is added to GUI |
| The user can add products to the shopping cart and all the information are displayed in a separate frame | Yes  No | User can add more than 1 item to the shopping cart. |
| The final price is displayed correctly | Yes  No | Final discounted total will displayed successfully in the end. |
| The discounts, if applicable, are displayed as per specification and the final price updated accordingly | Yes  No | The final price updated accordingly. |

**Phase 4 – Testing and system validation**

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| **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 | Add the test plan separately. |
| Implementation of an automated unit test for each scenario in the console menu. | Yes  No |  |
| Error Handling across all the code, input validation and code quality. | Yes  No | Handle the user input in console menu. |