

## Coursework Report – 5COSC019C Object Oriented Programming

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

### **Phase 1 – Design and classes implementation**

<b>Task</b>	<b>Did you attempt the task?</b>	<b>Student's comments</b> (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	Task completed successfully.
Design a UML Class Diagram of your system (submitted in a separate file).	Yes	Task completed successfully.
Implementation Class Person	Yes	Task completed successfully.
Implementation Class Doctor	Yes	Task completed successfully.
Implementation Class Patient	Yes	Task completed successfully.
Implementation Class Consultation	Yes	Task completed successfully.
Implementation Interface WestminsterSkinConsultationManager	Yes	Task completed successfully.

### **Phase 2 – Console menu implementation**

<b>Task</b>	<b>Did you attempt the task?</b>	<b>Student's comments</b> (To which extent you implemented the task? Have you encountered any problems or issue?)
Add a doctor in the system with all the relative information (max 10 doctors)	Yes	Task completed successfully.
Delete a doctor from the system selecting the medical licence number. Display a message to confirm he/she has been removed and the total number of doctors in the centres.	Yes	Task completed successfully.

Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	Yes	Task completed successfully.
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	Task completed successfully.

### **Phase 3 – GUI Implementation**

<b>Task</b>	<b>Did you attempt the task?</b>	<b>Student's comments</b> (To which extent you implemented the task? Have you encountered any problems or issue?)
Doctor list visualisation. Sorting alphabetically.	Yes	Task completed successfully.
The user can select a doctor and add a consultation.	Yes	Task completed successfully.
In the consultation the user can add all the patient details.	Yes	Task completed successfully.
The user can select the date/time of the consultation considering that a doctor cannot have more than one consultation at the time.	Yes	Task completed successfully.
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	Yes	Task completed successfully.
The user can add some notes (text information or images). This information has been encrypted.	Yes	Notes encryption part is completed successfully but in the image encryption part, the image is not displayed in the view consultation table, but image's file path displayed from the encrypted way.

### **Phase 4 – Testing and system validation**

<b>Task</b>	<b>Did you attempt the task?</b>	<b>Student's comments</b> (To which extent you implemented the task? Have you encountered any problems or issue?)
Test plan. (Submitted in a separate file).	Yes	Task completed successfully.

Implementation of an automated unit test for each scenario in the console menu.	No	Task not completed.
Error Handling across all the code, input validation and code quality.	Yes	Task completed successfully.