Coursework Report – 5COSC019W Object Oriented Programming

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Have you submitted the <u>video with the demonstration</u> 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, Panopto, etc), or YouTube. **Copy here the link: https://drive.google.com/file/d/1PQ-OJYyzIRLnsz5ai2r-Wlxo9vG3CjpQ/view?usp=sharing**

Phase 1 – Design and classes 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).	☒ Yes ☐ No	Implemented correctly however I did not know how to implement the database correctly.
Design a UML Class Diagram of your system (submitted in a separate file).	☒ Yes ☐ No	Implemented correctly according to specification
Implementation Class Person	☒ Yes ☐ No	The task was completed fully with all the getter and setter methods included.
Implementation Class Doctor	☒ Yes ☐ No	The task was completed fully with all the getter and setter methods included.
Implementation Class Patient	☒ Yes ☐ No	The task was completed fully with all the getter and setter methods included.
Implementation Class Consultation	☒ Yes ☐ No	The task was completed fully with all the getter and setter methods included.
Implementation Interface WestminsterSkinConsultationManager	☒ Yes ☐ No	The task was completed successfully WestminsterSkinConsultationManager implements the interface SkinConsultationManager

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 doctor in the system with all the relative information (max 10 doctors)	☒ Yes ☐ No	Completed successfully as it can add a maximum of ten doctors with all the relative information.
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 ☐ No	Complete the task successfully as al the doctors' details are removed from the system and the system lets you know how many doctors there are.
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	☒ Yes ☐ No	The task is completed successfully as the system prints out all the relative information in alphabetically according to the doctor surname
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	Yes, this is also completed because the user can save the details in the file and then the data in the file is automatically reloaded back into the system when the program is closed and opened again.

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?)
Doctor list visualisation. Sorting alphabetically.	☒ Yes ☐ No	Yes, the list of doctor's details is presented in a table format in the gui in alphabetical order.
The user can select a doctor and add a consultation.	☒ Yes ☐ No	Yes, the patient can select what doctor they seem suitable for their needs.
In the consultation the user can add all the patient details.	☒ Yes ☐ No	The task was implemented correctly as the patience can correctly add all the necessary details.
The user can select the date/time of the consultation considering that a doctor cannot have more than one consultation at the time.	☒ Yes ☐ No	The patient can select the time they want and if they choose a doctor that is already booked, they are assigned a random doctor however the patient cannot see the doctor's availability.
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	☒ Yes ☐ No	Yes, this was implemented successfully as the user can select whether it is their first time or not.
The user can add some notes (text information or images). This information has been encrypted.	☒ Yes ☐ No	The code works perfectly however picture cannot be uploaded. Also, I used a basic Caesar cipher to encrypt the text.

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	This was completed successfully
Implementation of an automated unit test for each scenario in the console menu.	☐ Yes ☒ No	Incomplete
Error Handling across all the code, input validation and code quality.	☒ Yes ☐ No	Yes, I try to make the code as high quality as possible.