Coursework Report – 5COSC019C Object Oriented Programming

Student Name: Janith Bojitha
Student ID:20200275

Have you submitted the <u>video with the demonstration</u> of your system? ☑ Yes ☐ No

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	
Design a UML Class Diagram of your system (submitted in a separate file).	☐ Yes ☑ No	
Implementation Class Person	☑ Yes ☐ No	Fully completed the person class by holding information about name,surname,date of birth and mobile number and used encapsulation principals
Implementation Class Doctor	☑ Yes ☐ No	Fully completed the Doctor class extended using Person class and added medical Licence number and specialization as instance variables and encapsulated it
Implementation Class Patient	☑ Yes ☐ No	Fully completed thePatient class is also extended using Person class.,added unique-id as intense variable and encapsulated it.
Implementation Class Consultation	☑ Yes ☐ No	Fully completed, This class implemented to book consultation with a specific doctor from a patient.The class hold information about date and time slot,the cost,notes.
Implementation Interface WestminsterSkinConsultationManager	☑ Yes ☐ No	Fully completed,Designed westminsterSkinConsulationManager to implemented the interface

		SkinConsultaionManager

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	Successfully created add-Doctor method for add a new doctor to the system.
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 centers.	☑ Yes ☐ No	Fully completed,Deleted a doctor from the system by selecting the medical licence number.
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	☑ Yes ☐ No	Sucessfully printed the list the doctors in the center with all the relative informations
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	Fully completed, Saves in a file entered by user by using file saver

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	Fully completed,Visualizing the doctor list and sorting patients surNmae acouding to the alphebetically
The user can select a doctor and add a consultation.	☑ Yes ☐ No	Fully completed
In the consultation the user can add all the patient details.	☑ Yes ☐ No	Fully completed

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	Fully completed
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	☑ Yes ☐ No	Fully completed
The user can add some notes (text information or images). This information has been encrypted.	☑ Yes ☐ No	Fully completed

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	
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	

Video Google Drive Link:

https://drive.google.com/drive/folders/1ROFgopSg6bsbriWFebt2_QmRxCue16TO?usp=sharing