Coursework Report – 5COSC019C Object Oriented Programming

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Have you submitted the video with the demonstration 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	Designed a UML use case diagram
Design a UML Class Diagram of your system (submitted in a separate file).	☒ Yes ☐ No	Designed a UML class diagram
Implementation Class Person	☒ Yes ☐ No	Implemented Class Person
Implementation Class Doctor	☒ Yes ☐ No	Implemented Class Doctor
Implementation Class Patient	☒ Yes ☐ No	Implemented Class Patient
Implementation Class Consultation	☒ Yes ☐ No	Implemented Class Consultation
Implementation Interface WestminsterSkinConsultationManager	☒ Yes ☐ No	Implemented interface WestminsterSkinConsultationManager

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. No errors. Can add a maximum of 10 doctors to the centre with all the relevant 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	Completed. No errors. Can delete a doctor from the system by selecting the medical license number. displaying a message with information about the doctor that has been deleted and the total number of doctors in the centre.
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	☒ Yes ☐ No	Completed. No errors. Can print the list of doctors and for each doctor printing on the screen all the stored information. The list is ordered alphabetically according to the doctor's 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	Completed. No errors. Can save in a file all the information entered by the user so far and can read back all the information saved in the file.

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	Completed. No errors.

		Can visualise the list of doctors with relative information and sort the list alphabetically.
The user can select a doctor and add a consultation.	☒ Yes ☐ No	Completed. No errors. Can select a doctor and add a consultation with the specific doctor.
In the consultation the user can add all the patient details.	☒ Yes ☐ No	Completed. No errors. Can add all the patient information.
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	Completed. No errors. Can check the availability of the doctor on a specific date and time (changing the colour of the table)
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	☒ Yes ☐ No	Completed. No errors. If the same person enters the cost as £15 for the first consultation and the same as the second consultation, the second consultation cost will automatically change to £25 (Checking by the NIC number)
The user can add some notes (text information or images). This information has been encrypted.	☒ Yes ☐ No	Completed. No errors. Can add some textual information and this information is encrypted.

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	Completed. No errors.
Implementation of an automated unit test for each scenario in the console menu.	☒ Yes ☐ No	Used JUnit testing. (Only for two methods)
Error Handling across all the code, input validation and code quality.	☒ Yes ☐ No	Completed. No errors.