Coursework Report – 5COSC019C Object Oriented Programming

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Have you submitted the video with the demonstration of your system? ☑ Yes ☐ No

Demo Video: https://drive.google.com/drive/folders/1Q6bZhJz4hFqBROnwZqD_UC4SsU6zjNV9?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	Completed and submitted the Use case Diagram
Design a UML Class Diagram of your system (submitted in a separate file).	☑ Yes ☐ No	Completed and submitted the Class Diagram
Implementation Class Person	☑ Yes ☐ No	Implemented successfully
Implementation Class Doctor	☑ Yes ☐ No	Implemented successfully
Implementation Class Patient	☑ Yes ☐ No	Implemented successfully
Implementation Class Consultation	☑ Yes ☐ No	Implemented successfully
Implementation Interface WestminsterSkinConsultationManager	☑ Yes ☐ No	Implemented successfully

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	Implemented successfully once reach 10 doctors' system will inform the user
Delete a doctor from the system selecting the medical license number. Display a message to confirm he/she has been removed and the total number of doctors in the center.	☑ Yes ☐ No	Implemented successfully
Print on the screen the list the doctors in the center with all the relative information. The list should be ordered alphabetically.	☑ Yes ☐ No	Implemented 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 ☐ No	Implemented successfully. user can save the details and next time program executed data will be automatically loaded

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	Implemented successfully. Doctors are shown in a table and when sort button is clicked doctors will be sorted alphabetically according to their surname.
The user can select a doctor and add a consultation.	☑ Yes ☐ No	Implemented successfully
In the consultation the user can add all the patient details.	☑ Yes ☐ No	Implemented 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 ☐ No	Implemented successfully.
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	☑ Yes ☐ No	Implemented successfully
The user can add some notes (text information or images). This information has been encrypted.	☑ Yes ☐ No	Implemented successfully. Application follows a symmetric key encryption that stores the key inside a separate file located in the data folder

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	Successfully submitted
Implementation of an automated unit test for each scenario in the console menu.	☑ Yes ☐ No	2 operations are tested and passed (add doctor, delete doctor). Junit 4 is used for unit testing. Add doctor is successfully passed (A dummy doctor object is added to the system). Delete doctor successfully passed (delete a dummy doctor object from the system).
Error Handling across all the code, input validation and code quality.	☑ Yes ☐ No	Each user input follows validation and if it's not a valid input user is informed with a message. All Exceptions are handled, and code is easy to understand with comments and followed by java naming conventions.