

Coursework Report – 5COSC019C Object Oriented Programming

Student Name: Ranvinu Hewage

Student ID:20210262

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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	There was one problem I faced when drawing the case diagram that is is user the only actor in this diagram.
Design a UML Class Diagram of your system (submitted in a separate file).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Drawing the class diagram was definitely more challenging than the case diagram. Watching some YouTube videos was helpful .
Implementation Class Person	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	I didn't understand a thing about oop during the lecture but some courses in LinkedIn and YouTube really helped.
Implementation Class Doctor	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completed it
Implementation Class Patient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completed it
Implementation Class Consultation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completed it
Implementation Interface WestminsterSkinConsultationManager	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	I did implement the interface to the main class but I didn't use the interface cause I didn't understand how that works.

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 <input type="checkbox"/> No	In early days when I started this cw I have no idea how to do it but then with help from internet I completed it and the array can store only 10,if there is no space left it will send a message to the user
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 <input type="checkbox"/> No	If the user want to delete the doctor user can delete the doctor by just simply adding the license no of the doctor that need to be deleted.
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	 Yes <input type="checkbox"/> No	I printed the doc list in alphabetical order by using collections.sort
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 <input type="checkbox"/> No	Created a file called doc_list.txt and save all the doctors that has been added to the array.

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 <input type="checkbox"/> No	I duplicated the array list in the main class to the gui class and created a table model and added that model to the Jtable and jtable to a scroll pane. To order alphabetically I used setAutoCreateRowSorter(true)
The user can select a doctor and add a consultation.	 Yes <input type="checkbox"/> No	I completed the part that user can select doctor and user can add a consultation
In the consultation the user can add all the patient details.	 Yes <input type="checkbox"/> No	In my system user can add all the patient details and also can add images

The user can select the date/time of the consultation considering that a doctor cannot have more than one consultation at the time.	 Yes <input type="checkbox"/> No	User can select the date and time for the consultation, for this I used a Jspinner and DateTime as the data type
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	<input type="checkbox"/> Yes  No	I didn't had the time to finish this part.
The user can add some notes (text information or images). This information has been encrypted.	 Yes <input type="checkbox"/> No	User can add a note and select images from patient details panel but the note and the image is not 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 <input type="checkbox"/> No	I fill the test plan as given in the template and also another test plan for the expected results
Implementation of an automated unit test for each scenario in the console menu.	 Yes <input type="checkbox"/> No	With Junit I tested all the methods in the console menu and all came passed
Error Handling across all the code, input validation and code quality.	 Yes <input type="checkbox"/> No	I put all the exception handling that necessary and put try and block wherever needed.