



5COSC019C: Object Oriented Programming

Coursework Report

Student Name: Irushi Nicoline Perera

Student ID: 20200216 UoW Id: w1867413 Link for the video:

https://drive.google.com/file/d/1 unAZwavkc6EnYdQgIV aYNmliFNxcl9/view?usp=sharin

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Have you submitted the <u>video with the demonstration</u> of your system? - Yes

Link for the video:

https://drive.google.com/file/d/1 unAZwavkc6EnYdQgIV aYNmliFNxcl9/view?usp=share li nk

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	The UML Use Case Diagram was designed and submitted in a separate file (It is also attached in this document)
Design a UML Class Diagram of your system (submitted in a separate file).	Yes	The UML Use Class Diagram was designed and submitted in a separate file. (It is also attached in this document)
Implementation Class Person	Yes	Class "Person" is implemented successfully.
Implementation Class Doctor	Yes	The Class "Doctor" is implemented successfully.
Implementation Class Patient	Yes	The Class "Patient" is implemented successfully.
Implementation Class Consultation	Yes	The Class "Consultation" is implemented successfully.
Implementation Interface WestminsterSkinConsultationManager	Yes	"WestminsterSkinConsultationManager" Is successfully implemented

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Phase 2 – Console menu implementation

Add a doctor in the system with all the relative information (max 10 doctors)	Did you attempt the task? Yes	Student's comments (To which extent you implemented the task? Have you encountered any problems or issue?) The programme adds a doctor by getting user input, once the "centre" has 10 doctors the programme will display a message to the user. (Which shows that the centre already has 10 doctors)
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	The programme deletes a doctor, by the licence number given by the user, the programme also displays a message to confirm that the relevant doctor has been removed and the current number of doctors will also be displayed. The programme satisfies all the given requirements successfully.
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	Yes	The programme prints all the doctors alphabetically. The programme satisfies the given requirement 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	The programme saves all the doctors information. The programme satisfies the given requirement successfully.

<u>Phase 3 – GUI Implementation</u>

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	The doctor list will be sorted alphabetically one the "SORT" button is clicked. The programme satisfies the given requirement successfully.
The user can select a doctor and add a consultation.	Yes	The programme satisfies the given requirement successfully.
In the consultation the user can add all the patient details.	Yes	The user can add all the patient details successfully. The programme satisfies the given requirement 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	The user can only select the date in this programme. The programme satisfies the given requirements partially
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	Yes	The programme satisfies the given requirements successfully.
The user can add some notes (text information or images). This information has been encrypted.	Yes	User Can add notes. The programme satisfies the given requirement successfully.

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	The test plan is submitted as a separate file.
Implementation of an automated unit test for each scenario in the console menu.	No	This part was not completed.
Error Handling across all the code, input validation and code quality.	Yes	I/O Exception was used throughout the programme.

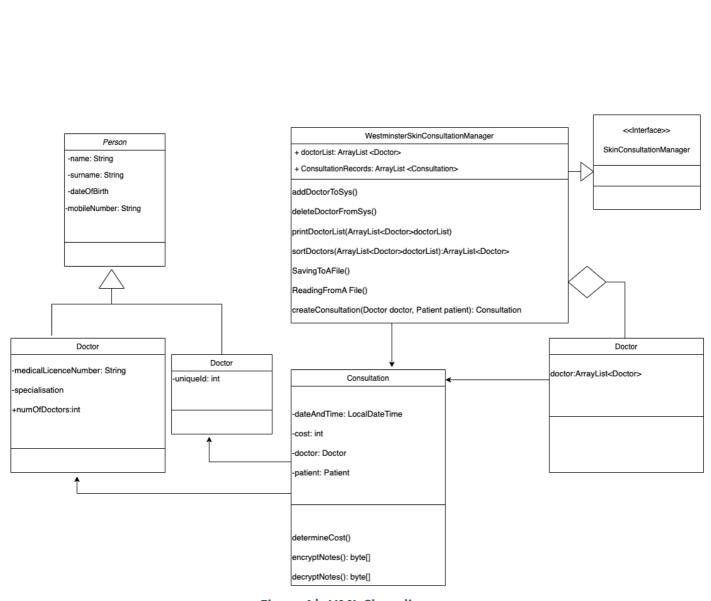


Figure 1| UML Class diagram

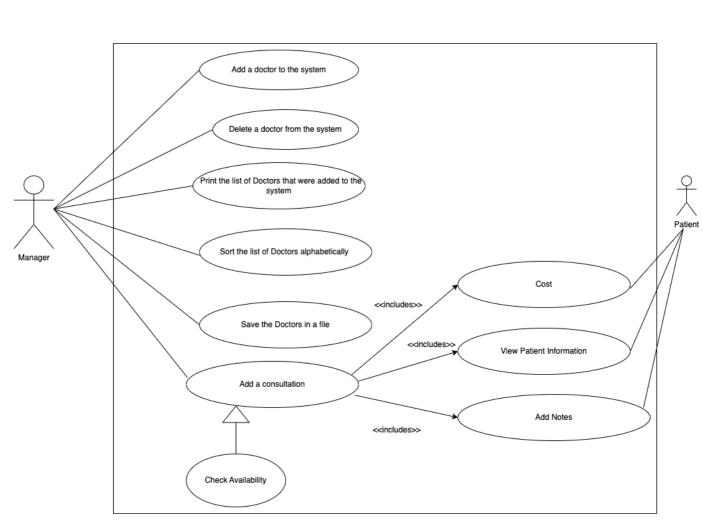
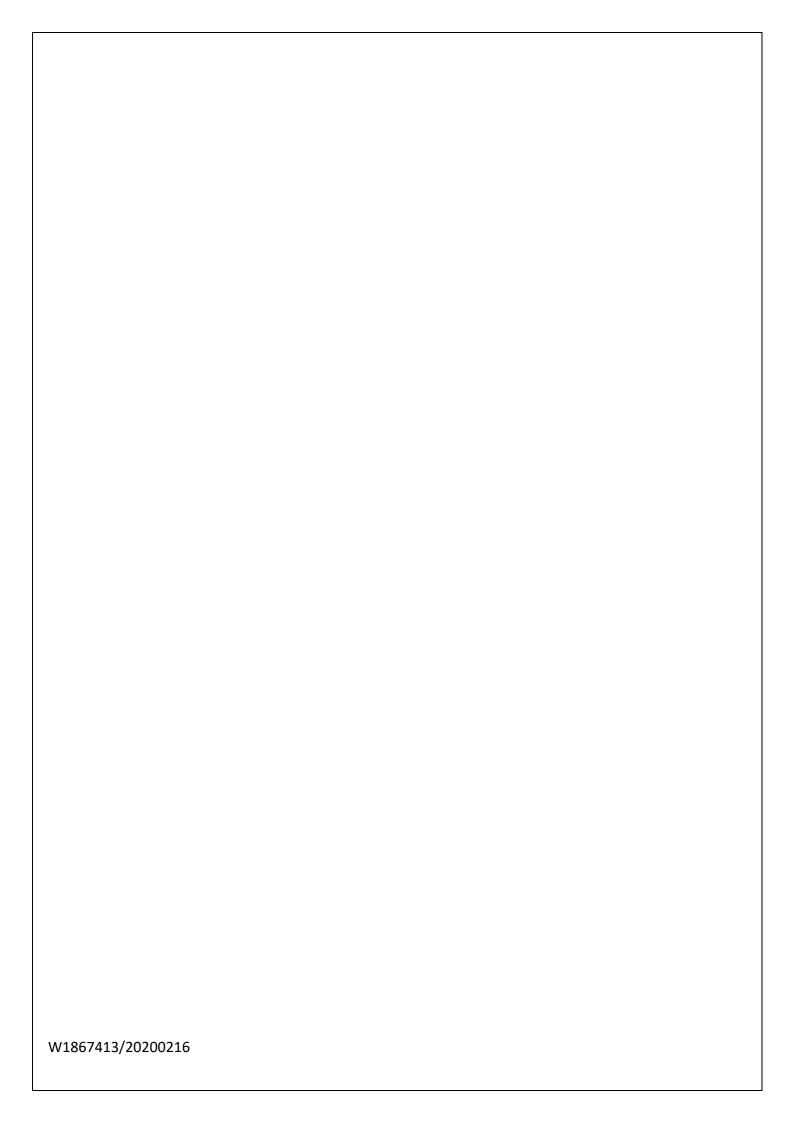


Figure 2 UML Usecase diagram



References



Java Swing | Simple User Registration Form. (2019). GeeksforGeeks. Available from https://www.geeksforgeeks.org/java-swing-simple-user-registration-form/ [Accessed 28 December 2022].

Java Swing Tutorial - Java Swing Font. (no date). Available from http://www.java2s.com/Tutorials/Java/Java_Swing/1520__Java_Swing_Font.htm#:~:text=To%20set%20the%20font%20for,setFont(f4)%3B [Accessed 26 December 2022].