

BEng (Hons) in Software Engineering

# Report – Object Oriented Programming CW (2022/23)

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Module: Object Oriented Programming, 5COSC019C

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# 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).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Design a UML Class Diagram of your system (submitted in a separate file).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Implementation Class Person	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Implementation Class Doctor	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Implementation Class Patient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Implementation Class Consultation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Implementation Interface WestminsterSkinConsultationManager	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed

## 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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Print on the screen the list the doctors in the centre with all the relative information. The list should be ordered alphabetically.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed

## Phase 3 – GUI Implementation

<b>Task</b>	<b>Did you attempt the task?</b>	<b>Student's comments</b> (To which extent you implemented the task? Have you encountered any problems or issue?)
Doctor list visualisation. Sorting alphabetically.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
The user can select a doctor and add a consultation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
In the consultation the user can add all the patient details.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
The user can select the date/time of the consultation considering that a doctor cannot have more than one consultation at the time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
The user can enter and save the cost for the consultation. (£25 per hour and only the first one £15).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
The user can add some notes (text information or images). This information has been encrypted.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed

#### **Phase 4 – Testing and system validation**

<b>Task</b>	<b>Did you attempt the task?</b>	<b>Student's comments</b> (To which extent you implemented the task? Have you encountered any problems or issue?)
Test plan. (Submitted in a separate file).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed
Implementation of an automated unit test for each scenario in the console menu.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Partially complete, could not implement Junit for all units
Error Handling across all the code, input validation and code quality.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Completely executed