BEng (Hons) in Software Engineering

Test cases – Object Oriented Programming CW (2022/23)

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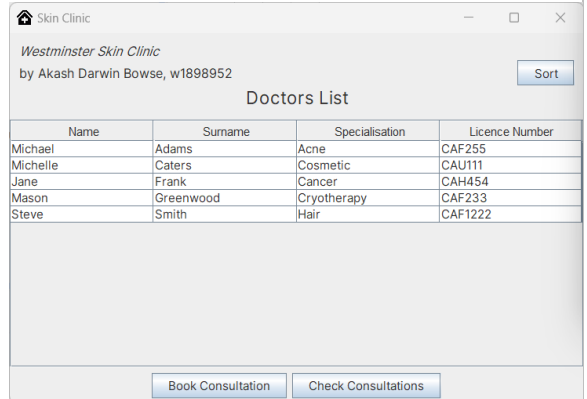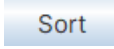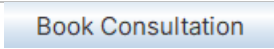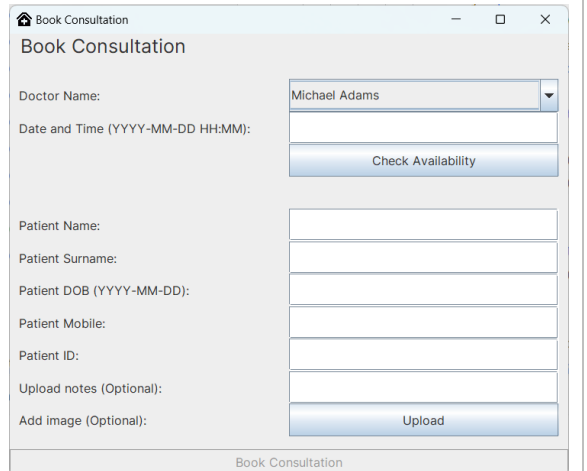Module: Object Oriented Programming, 5COSC019C

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Test Cases – Console version

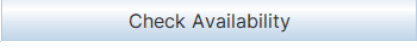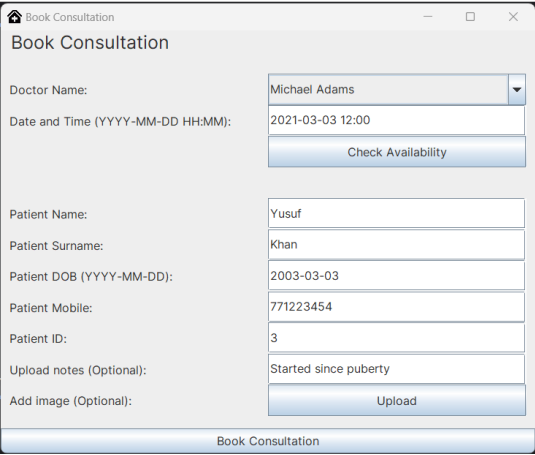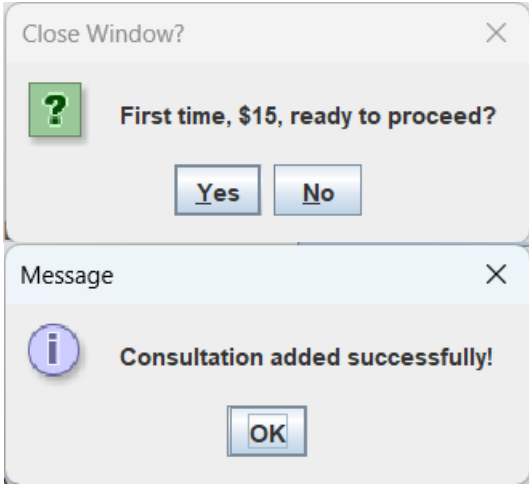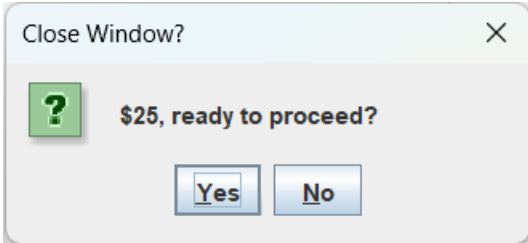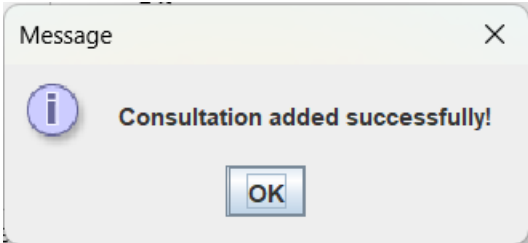|	Test Case	Expected Result	Actual Result	Pass /Fail
1	After program starts, enters 3 in the console	Displays no queues	Displays no queues	Pass
2	Adds a doctor named "John Doe", enters 1 in the console Enter doctor's first name: John Enter doctor's surname: Doe Enter doctor's date of birth (YYYY-MM-DD): 1988-07-23 Enter doctor's mobile number: 774459782 Enter doctor's medical license number: CAF223 Enter doctor's specialization: Surgery	Displays 'Added Dr. J Doe Successfully'	Displays 'Added Dr. J Doe Successfully'	Pass
3	Add 5 more doctors, named Michael Adams, Jane Frank, Mason Greenwood, Michelle Caters, and Steve Smith respectfully.	Adds the doctors into the doctors Array List	Adds the doctors into the doctors Array List	Pass
4	Add more than 10 doctors into the list	Displays an error message claiming that doctor amount is full	Displays an error message claiming that doctor amount is full	Pass
5	Enters 3 in the console to print the doctor list	Prints the doctors in alphabetical order based off surname with Michael Adams, Michelle Caters, John Doe, Jane Frank, Mason Greenwood, Steve Smith respectfully in order	Prints the doctors in alphabetical order based off surname with Michael Adams, Michelle Caters, John Doe, Jane Frank, Mason Greenwood, Steve Smith respectfully in order	Pass
6	Enter 2 in the console to remove Dr. John Doe Enter doctor's medical license number: CAF223	Removes doctor John Doe, shows the number of doctors remaining, which is 5	Removes doctor John Doe, shows the number of doctors remaining, which is 5	Pass
7	Enters 3 in the console to print the doctor list	Prints the doctors in alphabetical order based off surname with Michael Adams, Michelle Caters, Jane Frank, Mason	Prints the doctors in alphabetical order based off surname with Michael Adams, Michelle Caters, Jane Frank, Mason Greenwood, Steve Smith respectfully in order	Pass

		Greenwood, Steve Smith respectfully in order		
8	Enter 1 in the console Enter doctor's first name: Jane Enter doctor's surname: Doe Enter doctor's date of birth (YYYY-MM-DD): 200003:12:12	Prints "Incorrect Format! try again"	Prints "Incorrect Format! try again"	Pass
9	Enter 1 in the console Enter doctor's first name: Jane Enter doctor's surname: Doe Enter doctor's date of birth (YYYY-MM-DD): 2003-03-03 Enter doctor's mobile number: 7223dddaa	Prints "Error! Enter only numbers"	Prints "Error! Enter only numbers"	Pass
10	Enter 2 in the console Enter doctor's medical license number: COOO12	Prints "Error, C00012 not found"	Prints "Error, C00012 not found"	Pass
11	Enter 4 in the console	Saves the doctors into a text file named 'doctors.txt'	Saves the doctors into a text file named 'doctors.txt'	Pass
12	Exit and restart the program, enter 5 into the console	Reads the file from 'doctors.txt' successfully	Reads the file from 'doctors.txt' successfully	Pass
13	Enter 1000 into the console	Prints 'Invalid! Try again'	Prints 'Invalid! Try again'	Pass

Test Cases – GUI version

14	Enter 7 into the console to open the GUI	Opens GUI successfully	Opens GUI successfully	Pass
15	GUI Main menu is open	GUI shows all the relevant doctors added through the console	Successfully displays the doctors in the GUI	Pass
16	Click the Sort button	Sorts the doctors by alphabetical order on surname	Sorts the doctors by alphabetical order on surname	Pass
17	Click the Book Consultation button	Opens the window for Booking a patient	Successfully displays the booking window in the GUI	Pass

18	Choose Michael Adams in the drop down and enter "2021-03-03 12:00" in the Date and Time Field And click **Check Availability**	Displays Doctor available window	Successfully display the doctor available window Message ✕ ⓘ Doctor available! **OK**	Pass
19	Choose Michael Adams in the drop down and enter "2021-03-03 12:0032323" in the Date and Time Field And click **Check Availability**	Displays incorrect format window	Successfully display the incorrect format window Message ✕ ⓘ Incorrect format!, try again **OK**	Pass
20	Choose Michael Adams in the drop down and enter nothing in the Date and Time Field And click **Check Availability**	Display enters a date and time window	Successfully display the enter a date and time Message ✕ ⓘ Enter a date and time! **OK**	Pass
21	Book Consultation **Book Consultation** Doctor Name: Michael Adams Date and Time (YYYY-MM-DD HH:MM): 2021-03-03 12:00 Check Availability Patient Name: Yusuf Patient Surname: Khan Patient DOB (YYYY-MM-DD): 2003-03-03 Patient Mobile: 771223454 Patient ID: 3 Upload notes (Optional): Started since puberty Add image (Optional): Upload Book Consultation Clicks Book consultation button	Since it's the first booking, costs $15 shows a window and then books successfully	Close Window? ✕ ❓ First time, $15, ready to proceed? **Yes** **No** Message ✕ ⓘ Consultation added successfully! **OK**	Pass

22	Attempt to book the same doctor at the same time again	Displays a window with 'Doctor not available at this date and time!' and allocates a random doctor instead		Pass
23	Attempt to enter an invalid format in the patient DOB section	Displays error message		Pass
24	Attempt to enter an invalid format in the patient mobile field	Display error message		Pass

25	Click the [Check Consultations]	Displays the consultations added	Displays the consultations added in a window (Window too large to view)	Pass
26	Book a consultation with an image attached	Displays the booking with the image attached		Pass
27	Book a consultation for the same person again	Displays that the cost is now $25 for the booking and then books successfully		Pass