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Test Case	Expected Result	Actual Result	Pass/Fail
Console			
(Doctors initialized correctly) After program starts, Select 'P' or 'p' option from menu	Display "No doctors at the Centre!"	Display "No doctors at the Centre!"	Pass
(Add doctor "John" to consultation Centre with relevant details) Select 'A' or 'a' option from menu (If added successfully)	Display "Doctor has been added!"	Display "Doctor has been added!"	Pass
Error handling: (When adding doctor "John", if any of the fields were empty or if they contain Colon marks) Program will display error messages accordingly. (When loading data from file need to split words and colon will be the element that controls the splitting process in this program) For date of birth, it will also check the input pattern and for the mobile number it will check	Display: "Medical licence No -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Display: "Medical licence No -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Pass
	Display: "First name -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Display: "First name -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Pass
	Display: "Surname -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Display: "Surname -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Pass
	Display: "Invalid date! (Try again)"	Display: "Invalid date! (Try again)"	Pass
	Display: "Invalid mobile number! (Try again)"	Display: "Invalid mobile number! (Try again)"	Pass
	Display: "Specialisation -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Display: "Specialisation -> Empty string or the string contains COLON ' : 'marks! (Try again)"	Pass

whether it is an integer or not and, it will also check the length equals 10			
(Add a doctor with the same medical licence number again) Select 'A' or 'a' option from menu	Display "Doctor is already in the Centre!"	Display "Doctor is already in the Centre!"	Pass
(If 10 doctors have already been added to the Centre and tried to add another) by selecting 'A' or 'a' option from menu	Display "Maximum doctor limit has been reached! (Delete a doctor first)"	Display "Maximum doctor limit has been reached! (Delete a doctor first)"	Pass
(After adding doctor "John" and doctor "Sam" successfully) Select 'P' or 'p' option from menu	Display Name: John Casey Date of birth: 1999/10/10 Mobile number: 0771755678 Medical license number: M01 Specialisation: Medical dermatology Name: Sam Haris Date of birth: 1989/11/12 Mobile number: 0778987867 Medical license number: M02 Specialisation: Cosmetic dermatology	Display Name: John Casey Date of birth: 1999/10/10 Mobile number: 0771755678 Medical license number: M01 Specialisation: Medical dermatology Name: Sam Haris Date of birth: 1989/11/12 Mobile number: 0778987867 Medical license number: M02 Specialisation: Cosmetic dermatology	Pass
After adding doctors to Centre, select 'S' or 's' from menu to store to the file and then select 'L' or 'l' from menu to load data from file	Display Load program data from file [Option Selected]: <-----Skin-Consultation-Centre-Doctor-Details-----> John Casey : 1999/10/10 : 0771755678 : M01 : Medical dermatology	Display Load program data from file [Option Selected]: <-----Skin-Consultation-Centre-Doctor-Details-----> John Casey : 1999/10/10 : 0771755678 : M01 : Medical dermatology	Pass

	<p>Sam Haris : 1989/11/12 : 0778987867 : M02 : Cosmetic dermatology</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p>	<p>Sam Haris : 1989/11/12 : 0778987867 : M02 : Cosmetic dermatology</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p> <p>~ ~ : ~ : ~ : ~ : ~</p>	
(When deleting a doctor) After selecting 'D' or 'd' from menu, Enter "M98" as medical licence number	Display "Invalid medical licence number (Try again)!"	Display "Invalid medical licence number (Try again)!"	Pass
(When deleting a doctor) After selecting 'D' or 'd' from menu, Enter "M02" as medical licence number	<p>Display</p> <p>"Doctor deleted! (Details are below) Name: Sam Haris Date of birth: 1989/11/12 Mobile number: 0778987867 Medical license number: M02 Specialisation: Cosmetic dermatology</p> <p>Remaining number of doctors: 1"</p>	<p>Display</p> <p>"Doctor deleted! (Details are below) Name: Sam Haris Date of birth: 1989/11/12 Mobile number: 0778987867 Medical license number: M02 Specialisation: Cosmetic dermatology</p> <p>Remaining number of doctors: 1"</p>	Pass
Error handling: (When there is no doctor in Centre) Selecting 'D' or 'd' from menu and entering a medical licence number	Display "No doctors to delete from centre!"	Display "No doctors to delete from centre!"	Pass
Select 'Q' or 'q' from menu	Display "Quit option selected!"	Display "Quit option selected!"	Pass
Error handling:	Display "Invalid Input! (Try Again)"	Display "Invalid Input! (Try Again)"	Pass

Selecting an invalid option like 'JK'			
GUI			
(Doctors initialized correctly) After selecting 'G' or 'g' from menu, (If no doctor has been added yet) Press 'DOCTORS' button	Display the table that has filled with '~' mark for every cell	Display the table that has filled with '~' mark for every cell	Pass
(If no doctor has been added yet) Press 'CONSULTATIONS' button	Display "NO DOCTORS AT THE CENTRE!" on the content pane.	Display "NO DOCTORS AT THE CENTRE!" on the content pane.	Pass
Error handling: <u>Adding a doctor in GUI:</u> After pressing 'ADD DOCTOR' button, if user press 'ADD' button while any of the text fields were empty	Display "Fill all the Fields!" on JOptionPane	Display "Fill all the Fields!" on JOptionPane	Pass
Error handling: <u>Adding a doctor in GUI:</u> After pressing 'ADD DOCTOR' button, if user press 'ADD' button while any of the text fields containing colon marks (When loading data from file need to split words and colon will be the element that controls the	Display "Cannot contain COLONS!" on JOptionPane	Display "Cannot contain COLONS!" on JOptionPane	Pass

splitting process in this program)																																																																																																																											
Error handling: Adding a doctor in GUI: After pressing 'ADD DOCTOR' button, if user press 'ADD' button while mobile number text field is not containing an integer with a length of 10.	Display "Invalid mobile number!" on JOptionPane	Display "Invalid mobile number!" on JOptionPane	Pass																																																																																																																								
Adding a doctor in GUI: After pressing 'ADD DOCTOR' button, if user press 'ADD' button while every text field is entered correctly	Display "Doctor has been added!" on JOptionPane	Display "Doctor has been added!" on JOptionPane	Pass																																																																																																																								
(After adding doctor "John" and doctor "Sam" successfully) Press 'MENU' button at the bottom of the frame and click on the 'DOCTORS' button	Display on content pane: <table><tr><th>Medical licence No</th><th>First name</th><th>Surname</th><th>Date of birth</th><th>Mobile No</th><th>Specialisation</th></tr><tr><td>M01</td><td>John</td><td>Casey</td><td>1999/10/10</td><td>0771755678</td><td>Medical dermatology</td></tr><tr><td>M02</td><td>Sam</td><td>Haris</td><td>1989/11/12</td><td>0778987867</td><td>Cosmetic dermatology</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr></table>	Medical licence No	First name	Surname	Date of birth	Mobile No	Specialisation	M01	John	Casey	1999/10/10	0771755678	Medical dermatology	M02	Sam	Haris	1989/11/12	0778987867	Cosmetic dermatology	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Display on content pane: <table><tr><th>Medical licence No</th><th>First name</th><th>Surname</th><th>Date of birth</th><th>Mobile No</th><th>Specialisation</th></tr><tr><td>M01</td><td>John</td><td>Casey</td><td>1999/10/10</td><td>0771755678</td><td>Medical dermatology</td></tr><tr><td>M02</td><td>Sam</td><td>Haris</td><td>1989/11/12</td><td>0778987867</td><td>Cosmetic dermatology</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr></table>	Medical licence No	First name	Surname	Date of birth	Mobile No	Specialisation	M01	John	Casey	1999/10/10	0771755678	Medical dermatology	M02	Sam	Haris	1989/11/12	0778987867	Cosmetic dermatology	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Pass
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After adding another doctor named Smith Aiden to the list and Press 'MENU' button and then select 'DOCTORS' button and then Press 'SORT' button (Sort the details alphabetically using surname)	Display on content pane: <table><tr><th>Medical licence No</th><th>First name</th><th>Surname</th><th>Date of birth</th><th>Mobile No</th><th>Specialisation</th></tr><tr><td>M03</td><td>Smith</td><td>Aiden</td><td>1980/10/10</td><td>0771756787</td><td>Cosmetic dermatology</td></tr><tr><td>M01</td><td>John</td><td>Casey</td><td>1999/10/10</td><td>0771755678</td><td>Medical dermatology</td></tr><tr><td>M02</td><td>Sam</td><td>Haris</td><td>1989/11/12</td><td>0778987867</td><td>Cosmetic dermatology</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr></table>	Medical licence No	First name	Surname	Date of birth	Mobile No	Specialisation	M03	Smith	Aiden	1980/10/10	0771756787	Cosmetic dermatology	M01	John	Casey	1999/10/10	0771755678	Medical dermatology	M02	Sam	Haris	1989/11/12	0778987867	Cosmetic dermatology	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Display on content pane: <table><tr><th>Medical licence No</th><th>First name</th><th>Surname</th><th>Date of birth</th><th>Mobile No</th><th>Specialisation</th></tr><tr><td>M03</td><td>Smith</td><td>Aiden</td><td>1980/10/10</td><td>0771756787</td><td>Cosmetic dermatology</td></tr><tr><td>M01</td><td>John</td><td>Casey</td><td>1999/10/10</td><td>0771755678</td><td>Medical dermatology</td></tr><tr><td>M02</td><td>Sam</td><td>Haris</td><td>1989/11/12</td><td>0778987867</td><td>Cosmetic dermatology</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr><tr><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td></tr></table>	Medical licence No	First name	Surname	Date of birth	Mobile No	Specialisation	M03	Smith	Aiden	1980/10/10	0771756787	Cosmetic dermatology	M01	John	Casey	1999/10/10	0771755678	Medical dermatology	M02	Sam	Haris	1989/11/12	0778987867	Cosmetic dermatology	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Pass
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(If 10 doctors have already been added to the Centre and tried to add another) by pressing the 'ADD' button after filling the relevant details	Display "Maximum doctor limit has been reached! (Delete a doctor first)" on JOptionPane	Display "Maximum doctor limit has been reached! (Delete a doctor first)" on JOptionPane	Pass
Error handling: <u>Deleting a doctor in GUI:</u> (If no doctor in the Centre) Press 'DELETE DOCTOR' and enter the medical licence number and press 'DELETE' button	Display "No doctors to delete from centre!"	Display "No doctors to delete from centre!"	Pass
Error handling: <u>Deleting a doctor in GUI:</u> (If the ML number is incorrect) Press 'DELETE DOCTOR' and enter the medical licence number and press 'DELETE' button	Display "Invalid medical licence number (Try again)!"	Display "Invalid medical licence number (Try again)!"	Pass
<u>Deleting a doctor in GUI:</u> (If user enter ML number as 'M03') Press 'DELETE DOCTOR' and enter the medical licence number and press 'DELETE' button	Display on content pane: DOCTOR DELETED! Name: Smith Aiden Date of birth: 1980/10/10 Mobile number: 0771756787 Specialisation: Cosmetic dermatology NUMBER OF REMAINING DOCTORS: 2	Display on content pane: DOCTOR DELETED! Name: Smith Aiden Date of birth: 1980/10/10 Mobile number: 0771756787 Specialisation: Cosmetic dermatology NUMBER OF REMAINING DOCTORS: 2	Pass

(Store data to file) Press 'BACKUP' button (If successful)	Display "Backup successful" on JOptionPane	Display "Backup successful" on JOptionPane	Pass
(Store data to file) Press 'RESTORE' button (If successful)	Display "Restore successful" on JOptionPane	Display "Restore successful" on JOptionPane	Pass
(If doctors are present in the Centre but no consultations have been allocated by anyone) while pressing 'CONSULTATIONS' button	Display on frame "NO CONSULTATIONS HAS BEEN ALLOCATED YET"	Display on frame "NO CONSULTATIONS HAS BEEN ALLOCATED YET"	Pass
Error handling: <u>Booking a consultation in GUI:</u> After adding doctors press 'APPOINTMENT' button. While pressing the 'CHECK AVAILABILITY' button if any of the text fields are empty	Display "Fill all the fields!" on JOptionPane	Display "Fill all the fields!" on JOptionPane	Pass
Error handling: <u>Booking a consultation in GUI:</u> After adding doctors press 'APPOINTMENT' button. While pressing the 'CHECK AVAILABILITY' button if ML number is empty or if it contains Dash '-' marks	Display "Doctor ML number is Empty or it contains Dash '-' marks!" on JOptionPane	Display "Doctor ML number is Empty or it contains Dash '-' marks!" on JOptionPane	Pass

Error handling: <u>Booking a consultation in GUI:</u> After adding doctors press 'APPOINTMENT' button. While pressing the 'CHECK AVAILABILITY' button if ML number is invalid	Display "Invalid doctor ML number!" on JOptionPane	Display "Invalid doctor ML number!" on JOptionPane	Pass
<u>Booking a consultation in GUI:</u> After adding doctors press 'APPOINTMENT' button. After filling the fields correctly, enter 'M02' as ML number and press 'CHECK AVAILABILITY' button	Display "MESSAGE: Doctor is Available! – Date and time are also okay" on content pane	Display "MESSAGE: Doctor is Available! – Date and time are also okay" on content pane	Pass
While pressing the 'SCHEDULE' button if any of the text fields are empty or if they contain Dash '-' marks	Display "Fill all the Fields or They contain DASH '-' marks!" on JOptionPane	Display "Fill all the Fields or They contain DASH '-' marks!" on JOptionPane	Pass
While pressing the 'SCHEDULE' button (If all the fields are correct) (ML number – 'M02' Date – '2021/01/08' Time – '08:00' Duration – '60' Patient ID – 'P01')	Display "Appointment confirmed!" on JOptionPane	Display "Appointment confirmed!" on JOptionPane	Pass

<p>For another booking (If user enter the same date and the a time slot that overlaps with the previous booking for the same doctor) and press 'CHECK AVAILABILITY' button (ML number – 'M02' Date – '2021/01/08' Time – '08:30' Duration – '60' Patient ID – 'P01')</p>	<p>Display "MESSAGE: Dr.Sam already has a consultation (NOT AVAILABLE)!"</p> <p>Display "Dr. John has been allocated for you! (FOR REQUESTED TIMESLOT)"</p>	<p>Display "MESSAGE: Dr.Sam already has a consultation (NOT AVAILABLE)!"</p> <p>Display "Dr. John has been allocated for you! (FOR REQUESTED TIMESLOT)"</p>	Pass
<p>After booking of consultations press 'MENU' button and press 'CONSULTATIONS' button and click on consultations and view details of the consultation.</p> <p>'Dr. John 2021/01/08 08:00 – 09:00 Consultation' (Patient ID – P01) Cost?</p>	Display "Cost: 15" on content pane	Display "Cost: 15" on content pane	Pass
<p>After booking of consultations press 'MENU' button and press 'CONSULTATIONS' button and click on consultations and view details</p>	Display "Cost: 25" on content pane	Display "Cost: 25" on content pane	Pass

of the consultation. 'Dr. Sam 2021/01/08 08:30 – 09:30 Consultation' (Patient ID – P01) Cost?			
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