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10 Assessment Test Cases  
Hospital Management System

Test Case ID	Software Feature	Steps	Expected	Actual Result		Passed/Failed
1	Successful admin login	1.Run Program 2.Enter: admin 3.Enter:123	Hospital Management System Starts successfully, and it asks for a username. Username taken and the programme will ask for a password. Login successful and the user menu will be displayed.	<pre>In [1]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option:  </pre>		Pass
2	Discharge Patient	1.Run Program 2.Enter Login 3.Press '2'	Login Successful Displays List ,asks for an ID . Removes Patient from system.	<pre>Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 2 -----Discharge Patient----- 1 Name Doctor Age Phone PostCode 1 Sara,Smith Not-assigned 20 07012345678 B1 234 2 Mike,Jones Not-assigned 37 0755551234 L2 2AB 3 David,Smith Not-assigned 15 07123456789 C1 ABC  Please enter the patient ID: 1 Traceback (most recent call last):    2 Mike,Jones Not-assigned 37 0755551234 L2 2AB   3 David,Smith Not-assigned 15 07123456789 C1 ABC  Please enter the patient ID: 1 Traceback (most recent call last):    File "C:\CMP4266\CMP4266 PROJECT\CMP4266 CODE (Partial)\Main.py", line 80, in &lt;module&gt;     main()    File "C:\CMP4266\CMP4266 PROJECT\CMP4266 CODE (Partial)\Main.py", line 45, in main     admin.discharge(patients,discharged_patients)    File "C:\CMP4266\CMP4266 PROJECT\CMP4266 CODE (Partial)\Admin.py", line 256, in discharge     patients.remove(patient_index)  ValueError: list.remove(x): x not in list  In [2]:</pre>		Fail
3	Successful username update	1.Run Program 2.Enter Login Details 'admin' and '123' 3.Input '5' 4.Input '1' 5.Enter new username	Login Successful , Username Updated. Redisplays Menu Once finished	<pre>In [2]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor, Admin, Patient -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 5 Choose the field to be updated: 1 Username 2 Password 3 Address  Input: 1  Enter the new username: you username updated</pre>		Pass

4	Successful password update	1.Run Program 2.Enter Login Details 'admin' and '123' 3.Input '5' 4.Input '2' 5.Enter new password 6.Reconfirm	Login Successful, Asks For Password , Re Confirms Admin Password Updates successfully.	<pre>In [3]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor, Admin, Patient -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 5 Choose the field to be updated: 1 Username 2 Password 3 Address  Input: 2  Enter the new password: Hello  Enter the new password again: Hello password updated</pre>	Pass
5	Assign doctor to Patient	1.Run Program 2.Enter Login Details 'admin' and '123' 3.Input Option '4' 4. Select Patient ID 5.Select Doctor ID	Logs in Successfully And Displays Doctor and patient lists ,asks for an ID -for patient. Asks for an ID for a Doctor selection. Successfully Assigns	<pre>Option: 4 -----Assign----- -----Patients----- ID             Full Name             Doctor's Full Name   Age   Mobile   Postcode 1 Sara,Smith Not-assigned 20 07012345678 B1 234 2 Mike,Jones Not-assigned 37 07555551234 L2 2AB 3 David,Smith Not-assigned 15 07123456789 C1 ABC  Please enter the patient ID: 1 -----Doctors Select----- Select the doctor that fits these symptoms: Your Symptoms: Nausea Coughing Watery eyes ----- ID             Full Name             Speciality 1 John,Smith Internal Med. 2 Jone,Smith Pediatrics 3 Jone,Carlos Cardiology  Please enter the doctor ID: 1 Traceback (most recent call last):    File "C:\CMP4266\CMP4266 PROJECT\CMP4266 CODE (Partial)\Main.py", line 88, in &lt;module&gt;     main()    File "C:\CMP4266\CMP4266 PROJECT\CMP4266 CODE (Partial)\Main.py", line 66, in main     admin.assign_doctor_to_patient(patients, doctors)    File "C:\CMP4266\CMP4266 PROJECT\CMP4266 CODE (Partial)\Admin.py", line 230, in assign_doctor_to_patient     Dr.add_patient(patient_index)  TypeError: add_patient() missing 1 required positional argument: 'patient'  In [5]:</pre>	Partially pass/Fail
6	View Doctor List	1.Run Program 2.Enter Login Details 'admin' in username 3.Enter Password'123'into text prompt 3.Input Option '1' into prompt 5.Select '2' By Inputting It into the text prompt.	Login Successful. Menu is displayed and after user enters proper options , program successfully displays List of doctors with details	<pre>In [8]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 1 -----Doctor Management----- Choose the operation: 1 - Register 2 - View 3 - Update 4 - Delete  Input:2 -----List of Doctors----- 1 John,Smith Internal Med. 2 Jone,Smith Pediatrics 3 Jone,Carlos Cardiology Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit</pre>	Pass
7	Rejection of Wrong Password	1.Run Program 2.Enter 'rir' into username text prompt 3.Input 'frfrg' as password into text prompt.	Login Unsuccessful , Program lets user retry and displays both text prompts again	<pre>In [9]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor, Admin, Patient -----Login-----  Enter the username: login  Enter the password: Incorrect username or password. -----Login-----</pre>	Pass

8	Quit Program/No Termination required	1.Run Program 2.Enter Login Details 'admin' in username 3.Enter Password '123' into text prompt 4.Input '6' into text prompt.	Login Successful, Program Displays Menu . Program Quits	<pre>In [11]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor, Admin, Patient -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 6  In [12]:</pre>	Pass
9	View Discharged Patients	1.Run Program 2.Enter Login Details 'admin' in username 3.Enter Password '123' into prompt 4.Input option '3' Into prompt 5.Quit	Login Successful. Menu is displayed and after user enters proper options , program successfully displays 'Example Patient' Because of hard coded data then Re-displays Options	<pre>In [14]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor, Admin, Patient -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 3 -----Discharged Patients----- ID   Full Name   Doctor's Full Name   Age   Mobile   Postcode 1 Example Patient Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option:  </pre>	Pass
10	Address Update	1.Run Program 2.Enter Login Details 'admin' and '123' 3.Input '5' 4.Input '3' 5.Enter new address 6.Reconfirm	Login Successful, Displays options for Menu , then displays options for different Things to update for admin , then successfully updates the address.	<pre>In [15]: runfile('C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)/Main.py', wdir='C:/CMP4266/CMP4266 PROJECT/CMP4266 CODE (Partial)') Reloaded modules: Doctor, Admin, Patient -----Login-----  Enter the username: admin  Enter the password: 123 Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 5 Choose the field to be updated: 1 Username 2 Password 3 Address  Input: 3  Enter the new address Birmingham , UK Address Updated Choose the operation: 1- Register/view/update/delete doctor 2- Discharge patients 3- View discharged patient 4- Assign doctor to a patient 5- Update admin details 6- Quit  Option: 6  In [16]:  </pre>	Pass



### EXAMPLE: TESTCASE 0: SUCCESSFUL USER LOG IN.

- Highlight either Passed/Failed as the outcome.
- For the actual result column, **screenshots must be included.**

Test Case ID	Software Feature	Steps	Expected	Actual Result	Passed/Failed
0	Successful user log in	1. Run Programme 2. Enter: <b>David</b> 3. Enter: <b>aBC</b>	Banking system app Starts successfully, and it asks for a username. Username taken and the programme will ask for a password. Login successful and the usermenu will bedisplayed. Login successful and the usermenu will bedisplayed.	<pre>In [2]: runfile('D:/Work/OneDrive - Birmingham City University/Teaching/CMP4266 - Computer Programming/CMP4266/Assessment 2/run.py', wdir='D:/Work/OneDrive - Birmingham City University/Teaching/CMP4266 - Computer Programming/CMP4266/Assessment 2') Reloaded modules: Account, banking_system Welcome to the banking system, please log in first.  Please enter your username:</pre> <pre>Welcome to the banking system, please log in first.  Please enter your username: David  Please enter your password:</pre> <pre>You have now logged in, David. Please select an option:  1 - View account  2 - View summary  3 - Quit  Enter a number to select your option:</pre>	Passed

