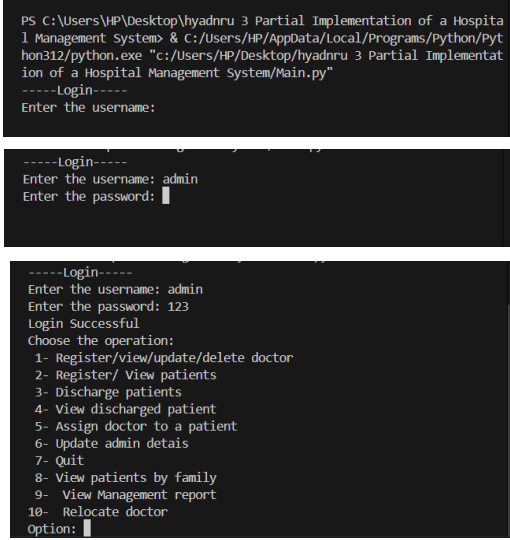
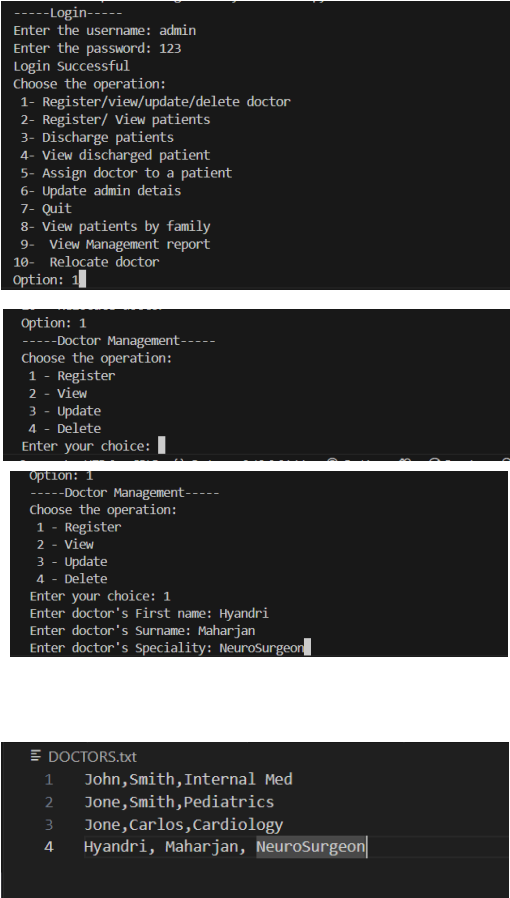


Test Case of Hospital management system

Test case-1

Test Case ID	Software feature	Steps	Expected	Actual	Passed/Failed
TC1	Successful user log in	<ol style="list-style-type: none"> 1. Run programme 2. Enter : admin 3. Enter: 123 	<p>Hospital management system app starts successfully and it asks for a username.</p> <p>Username taken and the Programme will ask for a password.</p> <p>Login successful and the user menu displayed.</p>	 <pre> PS C:\Users\HP\Desktop\hyadnru 3 Partial Implementation of a Hospital Management System> & C:/Users/HP/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/HP/Desktop/hyadnru 3 Partial Implementation of a Hospital Management System/Main.py" -----Login----- Enter the username: -----Login----- Enter the username: admin Enter the password: -----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: </pre>	PASS

Test case-2

	Software feature	Steps	Expected	Actual	Passed/failed
TC2	Reister a new Doctor into the system.	<ol style="list-style-type: none"> 1. In user menu, enter: 1(doctor management) 2. Enter: 1(register doctor) 3. Enter: Hyandri 4. Enter: Maharjan 5. Enter: NeuroSurgeon 	<p>Doctor registering in doctor management system successfully starts.</p> <p>It asks user to enter new doctor's first name, surname and his/her Specialty. The new doctor's data then is saved into "DOCTORS.TXT" file.</p>	 <pre> -----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 1 -----Doctor Management----- Choose the operation: 1 - Register 2 - View 3 - Update 4 - Delete Enter your choice: Option: 1 -----Doctor Management----- Choose the operation: 1 - Register 2 - View 3 - Update 4 - Delete Enter your choice: 1 Enter doctor's First name: Hyandri Enter doctor's Surname: Maharjan Enter doctor's Speciality: NeuroSurgeon DOCTORS.txt 1 John,Smith,Internal Med 2 Jone,Smith,Pediatrics 3 Jone,Carlos,Cardiology 4 Hyandri, Maharjan, NeuroSurgeon </pre>	PASS

Test case-3

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed
TC3	Update the data of existing Doctor	<div>1. In user menu, Enter: 1(doctor management)</div> <div>2. Enter: 3(Update doctor)</div> <div>3. Enter ID of doctor: 3</div> <div>4. Enter the field: 2</div> <div>5. Enter: Beckham</div>	<p>Doctor Updating in doctor management system successfully starts.</p> <p>It first asks user which doctor's detail user wants to update.</p> <p>The programme asks user which field of that Doctor's information the user wishes to update.</p> <p>User enters the new data which overwrites the current data and saves into "DOCTORS.TXT" file.</p>	<div><pre>-----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 1</pre></div> <div><pre>Option: 1 -----Doctor Management----- Choose the operation: 1 - Register 2 - View 3 - Update 4 - Delete Enter your choice: 3</pre></div> <div><pre>Enter your choice: 3 -----Update Doctor's Details----- -----List of Doctors----- ID Full name Speciality 1 John Smith Internal Med 2 Jone Smith Pediatrics 3 Jone Carlos Cardiology 4 Hyandri Maharjan NeuroSurgeon Enter the ID of the doctor: 3</pre></div> <div><pre>-----Update Doctor's Details----- -----List of Doctors----- ID Full name Speciality 1 John Smith Internal Med 2 Jone Smith Pediatrics 3 Jone Carlos Cardiology 4 Hyandri Maharjan NeuroSurgeon Enter the ID of the doctor: 3 Choose the field to be updated: 1 First name 2 Surname 3 Speciality Input: 2 Enter new surname: Beckham</pre></div> <div><pre>≡ DOCTORS.txt 1 John, Smith,Internal Med 2 Jone, Smith,Pediatrics 3 Jone ,Beckham ,Cardiology 4 Hyandri, Maharjan, NeuroSurgeon</pre></div>	PASS

Test case-4

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed																														
TC4	Print all patients registered in hospital management system.	<div>1. Enter: 2 (Patient Management)</div> <div>2. Enter: 2</div>	<div>Patient viewing in patient management system successfully starts.</div> <div>It first asks user to either register or view patient.</div> <div>When viewing patient, it successfully retrieves patient's data from "PATIENTS.txt" file and prints it in the terminal.</div>	<div>-----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 2</div> <div>Option: 2 -----Patient Management----- Choose the operation: 1 - Register 2 - View Enter your choice: 2</div> <div>-----Patient Management----- Choose the operation: 1 - Register 2 - View Enter your choice: 2 -----View Patients----- <table><thead><tr><th>ID</th><th>Full Name</th><th>Doctor's Full Name</th><th>Age</th><th>Mobile</th><th>Postcode</th></tr></thead><tbody><tr><td>1</td><td>Sara Smith</td><td>Not Assigned</td><td>20</td><td>07012345678</td><td>B1 234</td></tr><tr><td>2</td><td>Mike Jones</td><td>Not Assigned</td><td>37</td><td>07555551234</td><td>L2 2AB</td></tr><tr><td>3</td><td>Daivd Smith</td><td>Not Assigned</td><td>15</td><td>07123456789</td><td>C1A ABC</td></tr><tr><td>4</td><td>Erish Maharjan</td><td>pommy maharjan</td><td>21</td><td>98765688</td><td>25963</td></tr></tbody></table><div>Skipping malformed line:</div></div> <div>📄 PATIENTS.txt 1 Sara Smith,, 20, 07012345678,B1 234, Cough 2 Mike Jones,, 37, 07555551234,L2 2AB, Vomitting 3 Daivd Smith,, 15, 07123456789,C1 ABC,Nausea 4 Erish Maharjan, pommy maharjan , 21,98765688,25963,Sore throat 5</div>	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	Daivd Smith	Not Assigned	15	07123456789	C1A ABC	4	Erish Maharjan	pommy maharjan	21	98765688	25963	PASS
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Test case-5

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed																																																																																				
TC5	Delete a patient from hospital management system.	<div>1. Enter: 3</div> <div>2. Enter: Y</div> <div>3. Enter: 4</div> <div>4. Enter: Y</div> <div>5. Enter: N</div>	<div>Patient Discharging system successfully starts.</div> <div>It first prints all the patients currently registered in the system.</div> <div>The system confirms weather user wants to discharge a patient or not then asks ID of patient to discharge.</div> <div>The system asks re-confirms weather user wants to discharge the patient.</div> <div>System repeatedly asks to discharge patient until patient inputs “N”.</div>	<div>-----Login-----</div> <div>Enter the username: admin</div> <div>Enter the password: 123</div> <div>Login Successful</div> <div>Choose the operation:</div> <div>1- Register/view/update/delete doctor</div> <div>2- Register/ View patients</div> <div>3- Discharge patients</div> <div>4- View discharged patient</div> <div>5- Assign doctor to a patient</div> <div>6- Update admin details</div> <div>7- Quit</div> <div>8- View patients by family</div> <div>9- View Management report</div> <div>10- Relocate doctor</div> <div>Option: 3</div> <div>-----Patients-----</div> <div>-----View Patients-----</div> <table><thead><tr><th>ID</th><th>Full Name</th><th>Doctor's Full Name</th><th>Age</th><th>Mobile</th><th>Postcode</th></tr></thead><tbody><tr><td>1</td><td>Sara Smith</td><td>Not Assigned</td><td>20</td><td>07012345678</td><td>B1 234</td></tr><tr><td>2</td><td>Mike Jones</td><td>Not Assigned</td><td>37</td><td>07555551234</td><td>L2 2AB</td></tr><tr><td>3</td><td>Dauid Smith</td><td>Not Assigned</td><td>15</td><td>07123456789</td><td>C1A ABC</td></tr><tr><td>4</td><td>Erish Maharjan</td><td>pommy maharjan</td><td>21</td><td>98765688</td><td>25963</td></tr></tbody></table> <div>Skipping malformed line:</div> <div>Do you want to discharge a patient(Y/N): Y</div> <div>-----Discharge Patient-----</div> <div>Please enter the patient ID: 4</div> <div>Option: 3</div> <div>-----Patients-----</div> <div>-----View Patients-----</div> <table><thead><tr><th>ID</th><th>Full Name</th><th>Doctor's Full Name</th><th>Age</th><th>Mobile</th><th>Postcode</th></tr></thead><tbody><tr><td>1</td><td>Sara Smith</td><td>Not Assigned</td><td>20</td><td>07012345678</td><td>B1 234</td></tr><tr><td>2</td><td>Mike Jones</td><td>Not Assigned</td><td>37</td><td>07555551234</td><td>L2 2AB</td></tr><tr><td>3</td><td>Dauid Smith</td><td>Not Assigned</td><td>15</td><td>07123456789</td><td>C1A ABC</td></tr><tr><td>4</td><td>Erish Maharjan</td><td>pommy maharjan</td><td>21</td><td>98765688</td><td>25963</td></tr></tbody></table> <div>Skipping malformed line:</div> <div>Do you want to discharge a patient(Y/N): Y</div> <div>-----Discharge Patient-----</div> <div>Please enter the patient ID: 4</div> <div>Do you want to discharge a patient(Y/N): Y</div> <div>Do you want to discharge a patient(Y/N): Y</div> <div>Patient E has been discharged.</div> <div>-----Patients-----</div> <div>-----View Patients-----</div> <table><thead><tr><th>ID</th><th>Full Name</th><th>Doctor's Full Name</th><th>Age</th><th>Mobile</th><th>Postcode</th></tr></thead><tbody><tr><td>1</td><td>Sara Smith</td><td>Not Assigned</td><td>20</td><td>07012345678</td><td>B1 234</td></tr><tr><td>2</td><td>Mike Jones</td><td>Not Assigned</td><td>37</td><td>07555551234</td><td>L2 2AB</td></tr><tr><td>3</td><td>Dauid Smith</td><td>Not Assigned</td><td>15</td><td>07123456789</td><td>C1A ABC</td></tr></tbody></table> <div>Skipping malformed line:</div> <div>Do you want to discharge a patient(Y/N): N</div> <div>≡ PATIENTS.txt</div> <div>1 Sara Smith,, 20, 07012345678,B1 234, Cough</div> <div>2 Mike Jones,, 37, 07555551234,L2 2AB, Vomitting</div> <div>3 Dauid Smith,, 15, 07123456789,C1 ABC,Nausea</div> <div>4</div> <div>5</div> <div>≡ DISCHARGED_PATIENTS.txt</div> <div>1 Erish Maharjan, pommy maharjan , 21,98765688,25963,Sore throat</div> <div>2</div>	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	Dauid Smith	Not Assigned	15	07123456789	C1A ABC	4	Erish Maharjan	pommy maharjan	21	98765688	25963	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	Dauid Smith	Not Assigned	15	07123456789	C1A ABC	4	Erish Maharjan	pommy maharjan	21	98765688	25963	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	Dauid Smith	Not Assigned	15	07123456789	C1A ABC	PASS
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Test case-6

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed
TC6	View discharged patients.	1. Enter: 4	<p>Discharged patients viewing successfully starts.</p> <p>List of discharged patients and their details from "DISCHARGED_PATINENTS.txt" file are printed in the terminal.</p>	<pre> -----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 4 </pre> <pre> Option: 4 Discharged Patients: ID Full Name Doctor's Full Name Age Mobile Postcode 1 Erish Maharjan pommy maharjan 21 98765688 25963 </pre> <pre> DISCHARGED_PATINENTS.txt 1 Erish Maharjan, pommy maharjan , 21,98765688,25963,Sore throat 2 </pre>	PASS

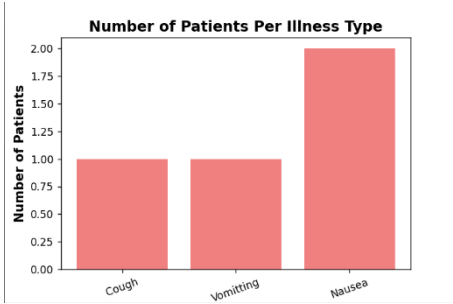
Test case-7

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed
TC7	View patients in the system grouped by family name.	1. Enter: 8	<p>The system groups the patients based on their surnames.</p> <p>Patients with same surnames are grouped under their surname.</p>	<pre> -----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 8 </pre> <pre> Option: 8 Patients with surname 'Smith': ID Full Name Doctor's Full Name Age Mobile Postcode 1 Sara Smith 20 09012345678 44 234 2 David Smith 15 07123456789 CHA ABC Patients with surname 'Jones': ID Full Name Doctor's Full Name Age Mobile Postcode 1 Mike Jones 37 07555551234 L2 2AB </pre>	PASS

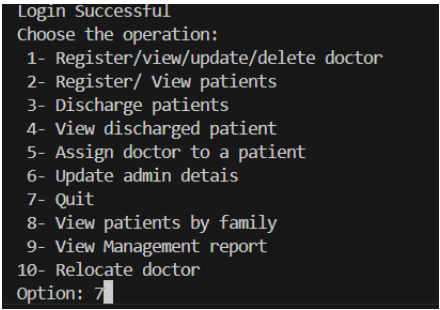
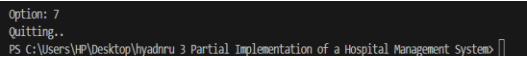
Test case-8

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed
TC8	Assign a doctor to a patient.	1. Enter: 5 2. Enter: 2 3. Enter: 1	<p>Assigning doctor to patient system successfully starts.</p> <p>A list of patients prints and asks user ID of patient whom the doctor is to be assigned to.</p> <p>Symptom of that particular patient is shown and system requests user to select doctor which fits the symptom.</p> <p>List of doctors prints and asks user to select the doctor to assign .</p> <p>Doctor successfully assigned to patient.</p>	<div>-----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 5</div> <div>option: 5 -----Assign----- -----Patients----- -----View Patients----- ID Full Name Doctor's Full Name Age Mobile Postcode 1 Sara Smith Not Assigned 20 07012345678 01 234 2 Mike Jones Not Assigned 37 07555551234 12 240 3 David Smith Not Assigned 15 07123456789 CJA ABC Skipping malformed line: Please enter the patient ID: 2</div> <div>12 240 Please enter the patient ID: 2 -----Doctors Select----- Select the doctor that fits these symptoms: Vomitting ----- -----List of Doctors----- ID Full name Speciality 1 John Smith Internal Med 2 Jone Smith Pediatrics 3 Jone Beckham Cardiology 4 Hyandri Maharjan NeuroSurgeon Please enter the doctor ID: 1</div> <div>ID Full Name Doctor's Full Name Age Mobile Postcode 1 Sara Smith Not Assigned 20 07012345678 01 234 2 Mike Jones John Smith 37 07555551234 12 240 3 David Smith Not Assigned 15 07123456789 CJA ABC</div>	PASS

Test case-9

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed
TC9	View total number of patients based on the illness type.	<div>1. Enter: 9</div> <div>2. Enter: 4</div>	<div>Hospital report system successfully starts.</div> <div>The user is prompted to view various patient-doctor reports and requests a report on patients based on their illness.</div> <div>The registered patient's symptoms are displayed on the left, while the corresponding number of patients with each symptom is shown on the right.</div> <div>A bar-graph appears showing statistics of patients based on illness type.</div>	<div><pre>-----Login----- Enter the username: admin Enter the password: 123 Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 9</pre></div> <div><pre>1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 9 -----Management Report----- Choose the report you want to view: 1 - Total number of doctors in the system 2 - Total number of patient per doctor 3 - Total number of appointments per month per doctor 4 - Total number of patients based on the illness type Input: 4</pre></div> <div><pre>Input: 4 -----Total number of patients based on the illness type----- Cough: 1 patients Vomitting: 1 patients Nausea: 2 patients</pre></div> <div></div>	PASS

Test case-10

Test Case	Software feature	Steps	Expected	Actual	Passed/Failed
TC10	Quit the programme.	1. Enter:7	Quits hospital management system.	 <pre> Login Successful Choose the operation: 1- Register/view/update/delete doctor 2- Register/ View patients 3- Discharge patients 4- View discharged patient 5- Assign doctor to a patient 6- Update admin details 7- Quit 8- View patients by family 9- View Management report 10- Relocate doctor Option: 7 </pre>  <pre> Option: 7 Quitting.. PS C:\Users\HP\Desktop\hyadru 3 Partial Implementation of a Hospital Management System> </pre>	PASS