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| **TEST CASES**  **ID** | **Software**  **Feature** | **Steps** | **Expected** | **Actual Result** | **Passed/Failed** |
| **1** | Admin Login to the system | 1. Run the Program 2. Enter username:admin 3. Enter Password:123 | Hospital Management System starts and asks for the admin’s username.  The user input the username then the program ask for the password.  After that if username and password is correct then login is completed and system show the main menu | **Screenshot 2025-02-09 123131** | Passed |
| **2** | Register a doctor in a system | 1.Run the Program and login to the system   1. Choose the operation 1 to open doctor management 2. Choose operation 1. I.e Register the Doctor in management menu | After successful login to the system user asked to choose any option from the menu.  The user enter 1 qnd the doctor management menu is open.  The user chooses operation 1 to register a doctor.  The user enter the Name,Surname, an Speciality of the doctor, then doctor register displayed | **Screenshot 2025-02-09 125211** | Passed |
| **3** | View doctors and their detail  In a system | 1. Run the Program and login to the system 2. Select option to open Doctor Management 3. Select operation 2 I.e View Doctors inside the system | After successfully login to the system, the user asked to choose any option from the main menu.  The user choose operation 2 to view doctor details  Then, A list of doctors with their names, surname, and specialities is displayed. | **Screenshot 2025-02-09 130848** | Passed |
| **4** | Update doctor details | 1. Run the Program and login to the system 2. Select option 1 to open doctor management system 3. Select operation 3 I.e Update doctor inside the system 4. Select the field to be updated and asking to the user to choose the field they want to update | After successful login to the system user asked to choose any option from the main menu.  The users enter 1 and the doctor management menu is opened.  The user choose operation 3 to update doctor details. Then ID of the doctor is asked which to be update by displaying a list of doctors.  The user choose the ID and another menu that asks the user about which field to update.  The user select the field and enters new details. | Screenshot 2025-02-09 131436 | Passed |
| **5** | Delete a doctor from the system | 1. Run the program and login to the system. 2. Select option 1 to open doctor management. 3. Select operation I.e Delete doctor inside managemet menu. | After successful login in to the system, the user is asked to choose any option from the main menu.  The user choose operation 4 to delete the doctor and details.  The ID of the doctor is asked which is to be deleted by displaying a list of doctors.  The user select the ID and doctor of that ID is deleted. | **Screenshot 2025-02-09 134348** | Passed |
| **6** | View Patient  details | 1. Run the  program and  login to the  system.  2. Select option  from the  main menu to  view/ discharge  Patient  3. Select option  1 i.e. view  patients and  details of  patients is  displayed | After successful login to  the system user is asked to  Choose any option from the main menu.  The user selects option 2 to view or discharge patients.  Another menu appears which asks users to select  options view/discharge  patients.  The user selects option 1  and details of all the patients are displayed in a list. | **Screenshot 2025-02-09 141703**  **Screenshot 2025-02-09 142027**  **Screenshot 2025-02-09 142305**  **Screenshot 2025-02-09 142344** | passed |
| **7** | Assign doctor to Patient | 1. Run the  program and login to the system  2. Select option  7 from the main menu displayed to assign a  doctor based  on symptoms.  3. Users to select  the patient ID to whom the doctor needs to be assigned.  4. The user  selects the ID  of the doctor  to assign to  that patient  based on the  symptoms | After successful login to the system user is asked to  choose any option from the main menu.  The user selects option 7 to assign a doctor to the patient.  A patient list is displayed and the user is asked to  select the id of the patient to whom the doctor needs  to be assigned.  The user selects the patient id and a list of doctors is displayed and the user is asked to choose a doctor to  assign to that patient.  Once the user selects the ID of the doctor the patient is now assigned to the  doctor message ID  displayed and the selected patient is assigned to the  selected doctor | **Screenshot 2025-02-15 181750**  **Screenshot 2025-02-15 181759**  **Screenshot 2025-02-15 181808**  **Screenshot 2025-02-15 181940** | Passed |
| **8** | Discharge the  patients from the System | 1. Run the program and login the system 2. Select option from the main menu   displayed to  view/discharge  Patients  3. Select option 2 i.e discharge  patients and  the System  asks to enter  the id of the  patient to  discharge  displaying a  patient list | After successful login to  the system user asked to  choose any option from the main menu.  The user selects option 2 to view or discharge patients.  Another menu appears  which asks users to select 2 options  view/discharge  patients. Details of all the patients are displayed in a list. The user selects option 2 which displays a list of patients and asks the user to enter the ID of the patient to discharge.  The user selects the id and a successfully discharged message is displayed. | **Screenshot 2025-02-09 143304**  **Screenshot 2025-02-09 143345**  **Screenshot 2025-02-09 143422**  **Screenshot 2025-02-09 143447** | Passed |
| **9** | View the list  of discharged  patients from  the system | 1. Run the program and login to the  system.  2. Select option 3 from the main menu  displayed to view  discharged patients | After successfully loggin to the  system, the user is  asked to choose any option from the main menu.  The user selects option 3 to  view discharged patients. Details of the discharged  patient are  displayed. | **Screenshot 2025-02-09 162041**  **Screenshot 2025-02-09 162052**  **Screenshot 2025-02-09 162101** | Passed |
| **10** | View group patient by family | 1. Run the program and login to the   system  2. Select option 4 from the main menu | After successful login to  the system user selects  option 4 from the main  menu.  The system displays  patients having the same surname i.e. family group in the list. | **Screenshot 2025-02-09 211353**  **Screenshot 2025-02-09 211447**  **Screenshot 2025-02-09 211512** | Passed |
| **11** | Add Patients | 1. Run the program and login to the system  2. Select option 5 from the main menu  3. Add the required information | After successful login to  the system user selects  option 5 from the main  menu.    The system displays  Enter name,surname,age,address,mobile no and postcode and symptoms  The system displays  patient list having newly  added patients in the list. | **Screenshot 2025-02-09 212602**  **Screenshot 2025-02-09 212702**  **Screenshot 2025-02-09 212739**  **Screenshot 2025-02-09 212829** | Passed |
| **12** | Add symptoms | 1. Run the Program and login the system 2. Select option 6 from the main menu 3. Add the required information | After successful login to the system user select option 6 from the menu  The system display add the symptoms | **Screenshot 2025-02-09 213845**  **Screenshot 2025-02-09 214001**  **Screenshot 2025-02-09 214038**  **Screenshot 2025-02-09 214107** | Passed |
| **13** | Update Admin  Details | 1. Run the program and login to the  system  2. Select option 8 from the main menu displayed to update admin details.  3. Select the field to be  updated and update new details | After successful login to  the system user is asked to choose any option from the main menu.  The user selects option 8 to update any details of the admin.  The program asks the user to select the field to update and enter new details.  Any information on the menu can be updated as desired | **Screenshot 2025-02-09 225548**  **Screenshot 2025-02-09 225625**  **Screenshot 2025-02-09 225649** | Passed |
| **14** | Relocate a patient from one doctor to another | 1. Run the program and login to the  system  2. Select option 9 from the main menu  3. Select the patient ID to relocate the doctor from.  4. Select the ID  of a new doctor | After successful login to  the system user selects  option 9 from the main  menu.  The program asks the user to select the patient ID of the patient whom they want to change the doctor .  The program asks the user to select the ID of the new doctor to whom the patient is to be relocated Displays  a successful message after changing doctor | **Screenshot 2025-02-09 230333**  **Screenshot 2025-02-09 230407**  **Screenshot 2025-02-09 230433**  **Screenshot 2025-02-09 230609**  **Screenshot 2025-02-09 230630** | Passed |
| **15** | To  request Management Report | 1.Run the program and  login to the system  2.Select option 10 from the main menu  displayed to management reports  3.Select the  desired management  report to be displayed from the management  report menu | After successfully loggin to the system, the user is  asked to choose any option from the main menu.  The user selects option 10 to get management reports.  Under the management  report menu. The user is  free to select any one of the 4 displayed options.  If 1 is selected the total number of doctors is displayed in the terminal  and bar diagram.  If 2 is selected then the total number of patients per doctor is displayed in  the terminal andbar  Diagram    If 4 is selected then the system displays the total Passed number of patients of similarsymptoms in both terminal and bar diagram | **Screenshot 2025-02-10 165951**  **Screenshot 2025-02-10 170110**  **Screenshot 2025-02-10 170316**  **Screenshot 2025-02-10 170304**  **Screenshot 2025-02-10 170556**  **Screenshot 2025-02-10 170542** | Passed |
| **16** | Total number of appointments of a doctor per month | 4.Run theprogram and login to the system  5.Select option 10 from the main menu displayed to update admin details  6.Select the option 3 displayed from the management  report menu to  display total number of appointments  of a doctor per month | If 3 is selected then the total number of appointments of a doctor per month is displayed in  the terminal. But not in bar graph. | **Screenshot 2025-02-10 171004** | Failed |
| **17** | Exit the  system | 1.Run the  program and  log in to the  system.  2.Select option  11 from the  main menu | After successful login to  the system user selects  option 11 from the main  menu.  The program ends. | **Screenshot 2025-02-10 171417** | passed |