

5.SOFTWARE TESTING PLAN

5.1 Test plan

5.1.1 Test plan for registration:

No	Test	Case	Coverage
1.1	Registration	Check all the text boxes that accept text and numbers	All the text boxes are checked with valid and invalid inputs
1.2	Registration	Check the signup button	Sign up button navigation
1.3	Registration	Check system's Registration functionality	Registration successfully
1.4	Registration	Sign up as different users	Select one user for further registration
1.5	Registration	Check the next button	Next button navigation

5.1.2 Test plan for login:

No	Test	Case	Coverage
2.1	login	Check all the text boxes that accept text and numbers	all the text boxes are checked with valid and invalid inputs
2.2	login	Check all the text boxes that accept text and numbers	Match and successfully log in With the database
2.3	login	Check all the text boxes that accept text and numbers	Login typing required data
2.4	login	Check the sign in button	Login button navigation
2.5	login	Check user interface	System user interface
2.6	Login	Reset password	all the text boxes are checked with valid and invalid inputs
2.7	Login	Reset password	Match the successful login with the database

5.1.3. Test plan for admin:

No	Test	Case	Coverage
3.1	Admin	Check all the text boxes that accept text and numbers	all the text boxes are checked with valid and invalid inputs
3.2	Admin	Check system's Registration functionality	Registration successfully
3.3	Admin	Check the signup button	Sign up button navigation
3.4	Admin	Check the profile link	View profile navigation
3.5	Admin	Check the dashboard	View the dashboard
3.6	Admin	Edit profile link	Edit profile navigation
3.7	Admin	See all the doctors link	View all the doctor's dashboard
3.8	Admin	See all the patients	View all the patient's dashboard
3.9	Admin	See rest of the admins	View rest of the admins in the dashboard
3.10	Admin	Approval/rejection of new accounts	approval/rejection navigation

5.1.4. Test plan for Doctor:

No	Test	Case	Coverage
4.1	Doctor	Check the patient's history	By providing name, id
4.2	Doctor	Check the patient's history	Match with database
4.3	Doctor	Check all the appointments	Appointment page navigation
4.4	Doctor	Edit the profile	Edit profile navigation
4.5	Doctor	Issuing prescription	Prescription navigation

4.6	Doctor	Check prescription	all the text boxes are checked with valid and invalid inputs
4.7	Doctor	Edit prescription	Edit prescription navigation
4.8	Doctor	Schedule update	Update the schedule in the dashboard

5.1.5. Test plan for Patient:

No	Test	Case	Coverage
5.1	Patient	Upload the history	Check history uploaded in the upload page
5.2	Patient	Store data	Check data store in the store data navigation
5.3	Patient	Edit the profile	Edit profile navigation
5.4	Patient	Search doctor	Check the filtered requirements
5.5	Patient	Search doctor	Match with database
5.6	Patient	Contact doctor	Check the contact information
5.7	Patient	Set appointment	Check the appointment with the doctor
5.8	Patient	Set appointment	Check the filtered requirements
5.9	Patient	Set appointment	Match with database
5.10	Patient	Notification	Check the notification navigation

5.1.6. Test plan for Technician:

No	Test	Case	Coverage
6.1	Technician	See all the test that has been prescribed	See all the test navigation
6.2	Technician	Upload test results	Upload the results in the upload page navigation

5.1.7. Test plan for Dashboard:

No	Test	Case	Coverage
7.1	Dashboard	Admin Dashboard Test	Check all the buttons
7.2	Dashboard	Admin Dashboard Test	Sizing and colours
7.3	Dashboard	Admin Dashboard Test	Check all the button's navigation
7.4	Dashboard	Admin Dashboard Test	Check all the links navigation
7.5	Dashboard	Admin Dashboard Test	Check to access
7.6	Dashboard	Admin Dashboard Test	Check view profile
7.7	Dashboard	Admin Dashboard Test	Check the UI design in web view
7.8	Dashboard	Admin Dashboard Test	Check functionalities
7.9	Dashboard	Admin Dashboard Test	Check all the doctors, all the patients, rest of the admins, approval, rejection
7.10	Dashboard	Patient Dashboard Test	Check notification, profile, store data
7.11	Dashboard	Patient Dashboard Test	Check the UI design in web view
7.12	Dashboard	Patient Dashboard Test	Check functionalities
7.13	Dashboard	Patient Dashboard Test	Check to access
7.14	Dashboard	Patient Dashboard Test	Check all the buttons
7.15	Dashboard	Patient Dashboard Test	Sizing and colours

7.16	Dashboard	Patient Dashboard Test	Check all the button's navigation
7.17	Dashboard	Patient Dashboard Test	Check all the links navigation
7.18	Dashboard	Patient Dashboard Test	Check view profile
7.19	Dashboard	Doctor Dashboard Test	Check the UI design in web view
7.20	Dashboard	Doctor Dashboard Test	Check to access
7.21	Dashboard	Doctor Dashboard Test	Check all the buttons
7.22	Dashboard	Doctor Dashboard Test	Sizing and colours
7.23	Dashboard	Doctor Dashboard Test	Check view profile
7.24	Dashboard	Doctor Dashboard Test	Check all the links navigation
7.25	Dashboard	Doctor Dashboard Test	Check schedule update, patient's history, appointments
7.26	Dashboard	Technician Dashboard Test	Check the UI design in web view
7.27	Dashboard	Technician Dashboard Test	Check to access
7.28	Dashboard	Technician Dashboard Test	Check all the buttons
7.29	Dashboard	Technician Dashboard Test	Sizing and colours
7.30	Dashboard	Technician Dashboard Test	Check view profile
7.31	Dashboard	Technician Dashboard Test	Check all the links navigation

7.32	Dashboard	Technician Dashboard Test	Check all the test, upload test
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5.1.8. Test plan for Doctor's Promotion ad upload:

No	Test	Case	Coverage
8.1	Ad upload	Check in as an admin of the system	Check the update
8.2	Ad upload	Check in as an admin of the system	File format
8.3	Ad upload	Check in as an admin of the system	Check the expired date of ad
8.4	Ad upload	Check in as an admin of the system	Check the uploading buttons
8.5	Ad upload	Check in as an admin of the system	Check the box with all format of files

5.1.9. Test plan for view page:

No	Test	Case	Coverage
9.1	View page	UI design & properties	Check button properties
9.2	View page	UI design & properties	Check attached photo sizing
9.3	View page	UI design & properties	Check file container size
9.4	View page	UI design & properties	Properties
9.5	View page	General functionalities	Check button navigations & correct functionalities

9.6	View page	General functionalities	Check the database values & the output of the posts
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5.1.10. Test plan for additional test:

No	Test	Case	Coverage
10.1	Additional	Navbar Properties	Check the link director
10.2	Additional	Navbar Properties	texts
10.3	Additional	Navbar Properties	Check the username properties and dropdown menu
10.4	Additional	UI design in web	Check high prioritized
10.5	Additional	View	Sections
10.6	Additional	functional	Functionalities performance
10.7	Additional	Requirements performance	Constraints and system dependencies

5.2 Testing Methodology

Our project CareBook is a web-based application. Here we are performing three types of testing. They are:

- System testing
- Regression testing
- User Acceptance testing.

5.2.1 System Testing

We tested to the program by system testing to find the defects and noted severity of defects, summary of defects and commented on them. System testing is the testing of a complete and fully integrated software product. System tests the overall system operations as a whole, typically from a customer's perspective. System testing presumes that all components have been previously, successfully, integrated. System testing is done after integration testing is complete. System testing main focus is to verify that the customer requirements are fulfilled. System testing should test functional and non-functional requirements of the software. System testing is black-box testing and often done by independent testers.

Test Case ID	Test Area	Test Case	Tester	Severity Of Defects	Summary Of Defects	Comments
1.1	Registration	Check all the text boxes that accept text and numbers	Fahim	None	None	Passed
1.2	Registration	Check the submit button	Fahim	None	None	Passed
1.3	Registration	Check system's Registration functionality	Fahim	None	None	Passed
1.4	Registration	Sign up as different users	Fahim	None	None	Passed
1.5	Registration	Check the all the buttons	Fahim	None	None	Passed
2.1	login	Check all the text boxes that accept text and numbers (valid and invalid inputs)	Fahim	None	None	Passed
2.2	login	Check all the text boxes that accept text and numbers (Match and successfully log in with the database)	Fahim	None	None	Passed
2.3	login	Check all the text boxes that accept text and numbers (Login typing required data)	Fahim	None	None	Passed
2.4	login	Check the sign in button	Fahim	Medium	No error message given while e-mail and password fields are empty	Failed
2.5	login	Check user interface	Fahim			Passed
2.6	login	Reset password (valid and invalid inputs)	Fahim	High	Not Working	Failed
2.7	login	Reset password (Match the successful login with the database)	Fahim	High	Not Working	Failed
3.1	Admin	Check all the text boxes that accept text and numbers (valid and invalid inputs)	Fahim	None	None	Passed
3.2	Admin	Check system's Registration functionality (Registration successfully)	Fahim	None	None	Passed

3.3	Admin	Check the signup button	Fahim	None	None	Passed
3.4	Admin	Check the profile link	Fahim	None	None	Passed
3.5	Admin	Check the dashboard	Fahim	None	None	Passed
3.6	Admin	Edit profile link	Fahim	None	None	Passed
3.7	Admin	See all the doctors list	Fahim	None	None	Passed
3.8	Admin	See all the patients	Fahim	None	None	Passed
3.9	Admin	See rest of the admins	Fahim	High	Not Available	Failed
3.10	Admin	Approval/rejection of new accounts	Fahim	None	None	Passed
4.1	Doctor	Check the patient's history (By providing name, id)	Fahim	None	None	Passed
4.2	Doctor	Check the patient's history (Match with database)	Fahim	None	None	Passed
4.3	Doctor	Check all the appointments	Fahim	Low	Not Available	Failed
4.4	Doctor	Edit the profile	Fahim	None	None	Passed
4.5	Doctor	Issuing prescription	Fahim	None	None	Passed
4.6	Doctor	Check prescription	Fahim	High	PDF format is not supporting	Failed
4.7	Doctor	Edit prescription	Fahim	None	None	Passed
4.8	Doctor	Schedule update	Fahim	None	None	Passed
5.1	Patient	Upload the history	Fahim	None	None	Passed
5.2	Patient	Store data	Fahim	None	None	Passed
5.3	Patient	Edit the profile	Fahim	None	None	Passed
5.4	Patient	Search doctor (Check the filtered requirements)	Fahim	None	None	Passed
5.5	Patient	Search doctor (Match with database)	Fahim	None	None	Passed
5.6	Patient	Contact doctor	Fahim	Medium	Not Available	Failed
5.7	Patient	Set appointment (Check the appointment with the doctor)	Fahim	Medium	Not Available	Failed

5.8	Patient	Set appointment (Check the filtered requirements)	Fahim	Medium	Not Available	Failed
5.9	Patient	Set appointment (Match with database)	Fahim	Medium	Not Available	Failed
5.10	Patient	Notification	Fahim			Passed
6.1	Technician	See all the test that has been prescribed	Fahim	Medium	Not Available	Failed
6.2	Technician	Upload test results	Fahim	None	None	Passed
7.1	Dashboard	Admin Dashboard Test (Check all the buttons)	Fahim	None	None	Passed
7.2	Dashboard	Admin Dashboard Test (Sizing and colours)	Fahim	None	None	Passed
7.3	Dashboard	Admin Dashboard Test (Check all the button's navigation)	Fahim	None	None	Passed
7.4	Dashboard	Admin Dashboard Test (Check all the links navigation)	Fahim	None	None	Passed
7.5	Dashboard	Admin Dashboard Test (Check to access)	Fahim	None	None	Passed
7.6	Dashboard	Admin Dashboard Test (Check view profile)	Fahim	None	None	Passed
7.7	Dashboard	Admin Dashboard Test (Check the UI design in web view)	Fahim	None	None	Passed
7.8	Dashboard	Admin Dashboard Test (Check functionalities)	Fahim	None	None	Passed
7.9	Dashboard	Admin Dashboard Test (Check all the doctors, all the patients, rest of the admins, approval, rejection)	Fahim	None	None	Passed
7.10	Dashboard	Patient Dashboard Test (Check notification, profile, store data)	Fahim	Medium	Patient notification is not showing properly	Failed
7.11	Dashboard	Patient Dashboard Test (Check the UI design in web view)	Fahim	None	None	Passed
7.12	Dashboard	Patient Dashboard Test (Check functionalities)	Fahim	Medium	In archive file is not uploading	Failed

7.13	Dashboard	Patient Dashboard Test (Check to access)	Fahim	None	None	Passed
7.14	Dashboard	Patient Dashboard Test (Check all the buttons)	Fahim	None	None	Passed
7.15	Dashboard	Patient Dashboard Test (Sizing and colours)	Fahim	Low	Profile photo is very small, Colour of Sign-out is not focusing	Failed
7.16	Dashboard	Patient Dashboard Test (Check all the button's navigation)	Fahim	None	None	Passed
7.17	Dashboard	Patient Dashboard Test (Check all the links navigation)	Fahim	None	None	Passed
7.18	Dashboard	Patient Dashboard Test (Check view profile)	Fahim	None	None	Passed
7.19	Dashboard	Doctor Dashboard Test (Check the UI design in web view)	Fahim	None	None	Passed
7.20	Dashboard	Doctor Dashboard Test (Check to access)	Fahim	None	None	Passed
7.21	Dashboard	Doctor Dashboard Test (Check all the buttons)	Fahim	High	Discard button is not working	Failed
7.22	Dashboard	Doctor Dashboard Test (Sizing and colours)	Fahim	None	None	Passed
7.23	Dashboard	Doctor Dashboard Test (Check view profile)	Fahim	None	None	Passed
7.24	Dashboard	Doctor Dashboard Test (Check all the links navigation)	Fahim	None	None	Passed
7.25	Dashboard	Doctor Dashboard Test (Check schedule update, patient's history, appointments)	Fahim	None	None	Passed
7.26	Dashboard	Technician Dashboard Test (Check the UI design in web view)	Fahim	None	None	Passed
7.27	Dashboard	Technician Dashboard Test (Check to access)	Fahim	None	None	Passed
7.28	Dashboard	Technician Dashboard Test (Check all the buttons)	Fahim	None	None	Passed

7.29	Dashboard	Technician Dashboard Test (Sizing and colours)	Fahim	None	None	Passed
7.30	Dashboard	Technician Dashboard Test (Check view profile)	Fahim	None	None	Passed
7.31	Dashboard	Technician Dashboard Test (Check all the links navigation)	Fahim	None	None	Passed
7.32	Dashboard	Technician Dashboard Test (Check all the test, upload test)	Fahim	None	None	Passed
8.1	Ad upload	Check in as an admin of the system (Check the update)	Fahim	Medium	Not Available	Failed
8.2	Ad upload	Check in as an admin of the system (File format)	Fahim	Medium	Not Available	Failed
8.3	Ad upload	Check in as an admin of the system (Check the expired date of ad)	Fahim	None	Future Development	None
8.4	Ad upload	Check in as an admin of the system (Check the uploading buttons)	Fahim	None	Future Development	None
8.5	Ad upload	Check in as an admin of the system (Check the box with all format of files)	Fahim	None	Future Development	None

Table-15: System testing

5.2.2 Regression Testing

Regression tests determine that the system remains stable as it cycles through the integration of other subsystems and through maintenance tasks. Testing that is performed after making a functional improvement or repair to the program. Its purpose is to determine if the change has regressed other aspects of the program. In this category, new tests are not designed; instead, test cases are selected from the existing pool and executed. Finally, we tested our project by an own user and write report and also found the defects.

The table below summarizes the test cases employed for regression testing and the test results obtained for each test case:

Test Case ID	Date Tested	Tester	Pass /Fail	Severity of Defect	Summary of Defect		Closed prior to Production Release ?	Comments
11.1	20/10/2019	Fahim	Passed	High	Without filling up any requirement but add item.		Yes	Problem Solved.
11.2	20/10/2019	Fahim	Passed	Medium	Guest browser rated which is not in the requirement		Yes	Problem Solved
11.3	20/10/2019	Fahim	Passed	High	Validation problem in Patients and doctor's login		Yes	Problem solved
11.4	20/1/2019	Fahim	Passed	Medium	Now can delete the pictures		Yes	Problem solved

Table-16: Regression testing

5.2.3 User Acceptance Testing

Acceptance testing is Formal testing for product evaluation. Formal testing conducted to determine whether a system satisfies its acceptance criteria. Performed by customers/end users (preferably). Verifies functionality and usability of the software. Conducted prior to software being released to live operation. At this level of testing, the software should be in a sufficiently defect-free state to permit the emphasis to change. Acceptance testing is usually the last step before the user/customer takes the possession of the software.

The table below summarizes the test cases employed for user acceptance testing and the test results obtained for each test case:

Test Case ID	Test Area	Test Case	Tester	Severity Of Defects	Summary Of Defects	Comments
9.1	View page	UI design & properties (Check button properties)	Fahim	None	None	Passed
9.2	View page	UI design & properties (Check attached photo sizing)	Fahim	Low	Profile photo of user is very small	Failed
9.3	View page	UI design & properties (Check file container size)	Fahim	None	None	Passed
9.4	View page	UI design & properties (Properties)	Fahim	None	None	Passed
9.5	View page	General functionalities (Check button navigations & correct functionalities)	Fahim	Medium	Next page buttons are not working	Failed
9.6	View page	General functionalities (Check the database values & the output of the posts)	Fahim	High	Prescriptions PDF format is not showing correctly	Failed
10.1	Additional	Navbar Properties (Check the link director)	Fahim	None	None	Passed
10.2	Additional	Navbar Properties (texts)	Fahim	None	None	Passed
10.3	Additional	Navbar Properties (Check the username properties and dropdown menu)	Fahim	None	None	Passed
10.4	Additional	UI design in web (Check high prioritized)	Fahim	None	None	Passed
10.5	Additional	View (Sections)	Fahim	None	None	Passed
10.6	Additional	Functional (Functionalities performance)	Fahim	High	Page loading and response time higher	Failed
10.7	Additional	Requirements performance (Constraints and system dependencies)	Fahim	High	Not Satisfactory	Failed

Table-17: Acceptance testing