

MediConnection

Test Plan Structure (Validation Tests)

Scope:

The scope of this test plan is to validate the functionality of the MediConnect website's three significant use cases, namely:

1. Searching for a physician
2. Scheduling appointments
3. Chatting with physicians

Approach:

The testing approach will be followed as such:

1. Integration tests to be performed on subunits that form clusters. May not be necessary for every endpoint in our usecase due to the specific type of structure of code achieved.
2. Regression testing to be performed after any modification to a unit/endpoint. Tests to be adjusted accordingly.
3. After the tests have been completed and the product is in a state suitable for validation testing, a series of validation tests to be performed on the deployed system (Alpha testing).
4. Beta testing at a later stage at launch to gain User feedback and identify any missed test cases.
5. Interface testing for front-end by a group of users, including our team, to test content, navigation, and front-end components.
6. Backend endpoints to be tested by the development team.
7. Frontend tests, Beta tests, and Interface testing to be performed by a set of users as well as the development team.

Validation Tests

Use Case 1: Searching for a Physician

Test cases:

1. Verify that the search bar on the homepage returns relevant results based on the user's search query.
2. Verify that the search results include the physician's name, specialty, location, and availability.
3. Verify that the user can filter the search results based on specialty, location, and availability.
4. Verify that the user can view the physician's profile and read their qualifications, experience, and reviews.
5. Verify that the user can save the physician to their favorites for future reference.
6. Alternate scenarios:
7. Verify that the search bar returns results even if the user misspells the physician's name or specialty.
8. Verify that the search results include physicians who are not currently available but have upcoming availability.

Use Case 2: Scheduling Appointments

Test cases:

1. Verify that the user can select an available time slot on the physician's calendar.
2. Verify that the user can schedule an appointment and receive a confirmation email.
3. Verify that the user can cancel an appointment and receive a cancellation email.
4. Verify that the user can reschedule an appointment and receive a confirmation email.
5. Verify that the user can view their upcoming appointments in the appointments section.
6. Verify that the user receives an error message if they try to schedule an appointment during the physician's unavailable hours.

Use Case 3: Chatting with Physicians

Test cases:

1. Verify that the user can start a chat session with the selected physician.
2. Verify that the user can send and receive messages in real-time.
3. Verify that the user can send attachments, such as images or documents.
4. Verify that the user can end the chat session and receive a confirmation message.
5. Verify that the user can resume a previous chat session with a physician.