

Test Case Planning

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1. Use Case 3 - *Generation of Adherence Report*

Test Case ID	TC01 - Successful logging and report update
Test Objective	Verify that the system correctly records a valid user response and updates the adherence report.
Preconditions	User has at least one scheduled medication dose. User has responded "Taken" or "Missed" to a reminder in UC02. System is able to access medication and user data.
Test steps	1. User responds to a reminder (Taken or Missed). 2. System receives the response. 3. System stores the response status. 4. System records the timestamp (current date and time). 5. System updates the adherence report 6. System displays confirmation.
Input Values	Medication Name: "Amoxicillin" Status: <i>Taken</i> Timestamp: <i>System generated</i>
Expected results	Entry appears in adherence report. Correct timestamp is saved. Adherence percentage recalculates correctly. Confirmation message is displayed: "Response recorded successfully."

Test Case ID	TC02 - No response from user
Test Objective	Ensure the system correctly logs missed/unconfirmed doses when the user does not respond.
Preconditions	Reminder was sent. User does not open or respond to the notification. Reminder window expires.
Test steps	1. Reminder triggers.

	<ol style="list-style-type: none"> 2. User takes no action. 3. Reminder expires. 4. System logs the missed or unconfirmed status based on business rules. 5. System updates adherence report accordingly.
Input Values	<p>Medication Name: <i>"Ibuprofen"</i></p> <p>Status: <i>Unconfirmed</i> (or Missed based on BR)</p> <p>Timestamp: <i>System generated</i></p>
Expected results	<p>Entry appears in adherence report as <i>Unconfirmed</i> or <i>Missed</i>.</p> <p>Adherence percentage recalculates.</p> <p>System logs the missing response without requiring user input.</p>

Test Case ID	TC03 - Late response
Test Objective	Verify the system correctly handles a late response and applies the proper status.
Preconditions	<p>User has an overdue reminder still stored in the app.</p> <p>User opens the app after the expected time window.</p>
Test steps	<ol style="list-style-type: none"> 1. Reminder is triggered. 2. User does not respond immediately. 3. User responds after delay. 4. System marks the status as "Late Taken" or "Late Not Taken." 5. System updates adherence report.
Input Values	<p>Medication Name: <i>"Metformin"</i></p> <p>Status: <i>Late Taken</i></p> <p>Timestamp: <i>System generated (late)</i></p>
Expected results	<p>Entry is labeled correctly as late.</p> <p>Adherence percentage adjusts.</p> <p>System stores timestamp accurately.</p> <p>Confirmation message appears.</p>

Test Case ID	TC04 - System error while saving record
Test Objective	Verify system behavior when an error prevents storing the response.
Preconditions	<p>Database is temporarily unavailable or storage error occurs.</p> <p>User has submitted a valid response.</p>
Test steps	<ol style="list-style-type: none"> 1. User responds to a reminder.

	<ol style="list-style-type: none">2. System attempts to store the response.3. An error occurs during saving.4. System displays error message.5. System prompts user to retry or contact support.
Input Values	Medication Name: <i>"Lisinopril"</i> Status Attempted: <i>Taken</i> Timestamp: <i>System attempted to generate</i>
Expected results	System displays: <i>"Unable to record response. Please try again."</i> No incorrect or partial data is added to the report. User is returned to a stable state with retry option.