

# Test Case Planning

<b>Group members</b>	Kenloy Marseille, Mitchell Anguita, Chris Jorss, Wyatt Byrd, Tyler Arrowsmith
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## 1. Use Case 3 - *Generation of Adherence Report*

<b>Test Case ID</b>	<b>TC01 - Successful logging and report update</b>
<b>Test Objective</b>	<b>Verify that the system correctly records a valid user response and updates the adherence report.</b>
<b>Preconditions</b>	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.
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. User responds to a reminder (Taken or Missed).</li> <li>2. System receives the response.</li> <li>3. System stores the response status.</li> <li>4. System records the timestamp (current date and time).</li> <li>5. System updates the adherence report</li> <li>6. System displays confirmation.</li> </ol>
<b>Input Values</b>	Medication Name: “Amoxicillin” Status: <i>Taken</i> Timestamp: <i>System generated</i>
<b>Expected results</b>	Entry appears in adherence report. Correct timestamp is saved. Adherence percentage recalculates correctly. Confirmation message is displayed: “ <i>Response recorded successfully.</i> ”

<b>Test Case ID</b>	<b>TC02 - No response from user</b>
<b>Test Objective</b>	<b>Ensure the system correctly logs missed/unconfirmed doses when the user does not respond.</b>
<b>Preconditions</b>	Reminder was sent. User does not open or respond to the notification. Reminder window expires.
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. Reminder triggers.</li> </ol>

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

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

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

	<ol style="list-style-type: none"><li>2. System attempts to store the response.</li><li>3. An error occurs during saving.</li><li>4. System displays error message.</li><li>5. System prompts user to retry or contact support.</li></ol>
<b>Input Values</b>	Medication Name: " <i>Lisinopril</i> " Status Attempted: <i>Taken</i> Timestamp: <i>System attempted to generate</i>
<b>Expected results</b>	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.