

Test Case Planning

Group members	Kenloy Marseille, Mitchell Anguita, Chris Jorss, Wyatt Byrd, Tyler Arrowsmith
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1. Use Case 2 - *Response to reminder*

Test Case ID	TC01 - User Marks Medication as Taken
Test Objective	Verify that the system correctly logs a medication reminder as "Taken" when the user responds on time.
Preconditions	User has a medication scheduled for 8:00 AM. Reminder service triggers a notification at 8:00 AM.
Test steps	<ol style="list-style-type: none">1. System sends reminder notification to user at 8:00 AM.2. User opens the app immediately.3. User selects the medication entry "Amlodipine 10 mg."4. User taps "Taken."5. System logs the response in adherence history.6. System shows confirmation popup with timestamp.
Input Values	Medication Name Amlodipine, Dosage 10 mg, Reminder Time 2025-11-07 08:00, User Action "Taken", Expected Status Taken
Expected results	Status: Taken Timestamp: 2025-11-07 08:01 Confirmation popup displays "Amlodipine 10 mg marked as Taken at 08:01." Entry appears in adherence history.

Test Case ID	TC02 - User Marks Medication as Missed
Test Objective	Ensure system correctly logs medication as "Missed."
Preconditions	User scheduled to take Metformin 500 mg at 07:00 PM. Reminder notification enabled.
Test steps	<ol style="list-style-type: none">1. Reminder triggered at 19:00.2. User opens app at 19:05.3. User selects "Metformin 500 mg."4. User taps "Missed."5. System logs and timestamps the missed event.

	6. System confirms update.
Input Values	Medication Name Metformin, Dosage 500 mg, Reminder Time 2025-11-07 19:00, User Action "Missed", Expected Status Missed
Expected results	Status: Missed Timestamp: 2025-11-07 19:05 Confirmation popup: "Metformin 500 mg marked as Missed." Entry saved in adherence history.

Test Case ID	TC03 - User Snoozes Reminder
Test Objective	Verify snooze delay and final action logging.
Preconditions	Medication scheduled for Lisinopril 5 mg at 09:00 AM. User snooze interval: 15 minutes.
Test steps	1. Reminder triggered at 09:00 AM. 2. User opens app and taps "Snooze." 3. System delays next reminder by 15 minutes. 4. At 09:15, system re-triggers reminder. 5. User taps "Taken" at 09:17. 6. System logs status and timestamps both events.
Input Values	Medication Name Lisinopril, Dosage 10 mg, Reminder Time 2025-11-07 9:00, Snooze Duration 15 mins, User Action "Snooze", User Action "Taken" Expected Status Taken
Expected results	Snooze recorded at 09:00 with delay set for 09:15. Final status logged as Taken at 09:17. Confirmation popup displays: "Lisinopril 5 mg taken at 09:17." Adherence history shows both snooze and final entry.

Test Case ID	TC04 - User Does Not Respond
Test Objective	Verify automatic logging when user does not respond to a reminder.
Preconditions	Medication scheduled for Ibuprofen 200 mg at 06:00 PM. Reminder expiration period: 30 minutes.
Test steps	1. Reminder triggered at 18:00. 2. User takes no action. 3. Reminder expires at 18:30.

	4. System auto-logs dose as Unconfirmed. 5. System generates timestamp for expiration event.
Input Values	Medication Name Ibuprofen, Dosage 200 mg, Reminder Time 2025-11-07 18:00, User Action none , Expiration Duration 30 mins, Expected Status Unconfirmed
Expected results	Status: Unconfirmed Timestamp: 2025-11-07 18:30 Adherence history entry added automatically. System optionally notifies user that the reminder expired.