1. ***Test Case 1: Real Time Missed Dosage Notifications***
   1. **Test Case ID:** 
      1. TC-09
   2. **Test Objective:**
      1. Verify that a missed dose triggers a real-time notification to the user
   3. **Preconditions**:
      1. User has logged a medication schedule
      2. Notifications are enabled in the system
   4. **Test Steps:**
      1. Set a medication schedule (e.g., 8:00 AM daily).
      2. Do not log the medication within the allowed time window (e.g., by 8:30 am)
   5. **Input Values:**
      1. Medication Schedule: 8:00 AM
      2. Notification Window: 30 minutes
   6. **Expected Results**
      1. User receives a notification alerting them of the missed dose at 8:30 AM
2. ***Test Case 2: Missed Dose Insights***
   1. **Test Case ID:** 
      1. TC-10
   2. **Test Objective:**
      1. Verify that the system generates accurate missed dosage reports
   3. **Preconditions**:
      1. User has missed at least one medication dose
      2. Reporting feature is enabled in the system
   4. **Test Steps:**
      1. Log Multiple missed doses over a week
      2. Access the missed dose insights report
      3. Review the report content
   5. **Input Values:**
      1. Missed doses: 3 (Monday, Wednesday, Friday)
   6. **Expected Results**
      1. Report displays missed doses with dates and times (e.g., Monday: 8:00 AM, Wednesday: 8:00 AM, Friday: 8:00 AM)
3. ***Test Case 3: Provider Feedback Loop***
   1. **Test Case ID:** 
      1. TC-11
   2. **Test Objective:**
      1. Verify that the system sends a summary of missed doses to the provider
   3. **Preconditions**:
      1. A provider email is linked to the user’s account.
      2. User has missed multiple doses.
   4. **Test Steps:**
      1. Set a provider’s email (e.g., [doctor124124@gmail.com](mailto:doctor@example.com)).
      2. Miss multiple doses over a week
      3. Check the provider’s email for a summary report
   5. **Input Values:**
      1. Provider email: [doctor124124@gmail.com](mailto:doctor124124@gmail.com)
      2. Missed doses: 3
   6. **Expected Results**
      1. Provider receives an email summarizing the missed doses for the week
4. ***Test Case 4: Simple Logging Confirmation***
   1. **Test Case ID:** 
      1. TC-12
   2. **Test Objective:**
      1. Verify that the system sends a confirmation request if a dose is not logged
   3. **Preconditions**:
      1. User has set a medication schedule
      2. Logging confirmation notifications are enabled
   4. **Test Steps:**
      1. Set a medication schedule (e.g., 8:00 AM daily).
      2. Do not log the medication within the allowed time window (e.g., by 8:30 am)
      3. Observe the system behavior.
   5. **Input Values:**
      1. Medication Schedule: 8:00 AM
      2. Notification Window: 30 minutes
   6. **Expected Results**
      1. User receives a follow-up notification requesting them to confirm the dose status