



MOBILE APP DEVELOPMENT MINI-PROJECT



[MediTrack – Medication Reminder App]

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1. App Name & Tagline

- **App Name:** MediTrack
- **Tagline:** “Stay on schedule, stay healthy, never miss a dose again.”

2. Introduction

MediTrack is a mobile application designed to help individuals reliably track medication schedules, doses, and adherence. The app aims to reduce missed doses and medication errors by providing clear reminders, an easy-to-use medication log, and simple reporting tools that support safer home-based medication management. Built for a mobile application development course, MediTrack will demonstrate practical mobile UI/UX, local data persistence, notifications, and simple user flows for adding, scheduling, and recording medication events.

3. Problem Statement

Many patients, especially those managing chronic illnesses or multiple prescriptions, struggle to remember the correct time and dosage for their medications. Missed or incorrect doses can lead to serious health complications, hospital visits, or treatment failure.

In Ethiopia and many similar contexts, most people still rely on handwritten notes, memory, or alarm clocks to manage their medication schedules. Methods that are unreliable, easily forgotten, and difficult to track. Caregivers face similar challenges when managing medications for dependents.

There is no simple, accessible, and reliable mobile solution designed specifically for local users to manage medications offline, set timely reminders, and keep a clear record of taken or missed doses.

3.1. User Persona

Our typical user is **Abebe**, a 42-year-old diabetic patient who needs to take several medications daily. He often forgets doses because he relies on his memory. With MediTrack, he receives automatic reminders and can easily log when he takes each medicine helping him stay consistent and healthy.

4. Proposed Solution

MediTrack is an Android-based mobile application that helps users manage and track their medication schedules through timely reminders, dose logging, and simple progress reports all without needing an internet connection.

The app allows users to:

- Add medication details (name, dosage, time, frequency).
- Receive notifications at each scheduled time.
- Mark doses as *Taken* or *Missed*.
- View a progress summary showing adherence rates over time.

By automating reminders and record-keeping, MediTrack helps patients and caregivers maintain consistent medication habits, reduce errors, and improve overall treatment outcomes.

5. Core Features (MVP)

- **Add, Edit, and Delete Medications** - Users can manage a personalized list of medicines with details like dosage and reminder time.
- **User Authentication (Simple Login System)** - Basic login and signup functionality using local data storage (SQLite). This ensures that each user's medication data is private and accessible only to them.
- **Automated Notifications / Alarms** - Alerts users to take medication even if the device is locked.
- **Mark Doses as Taken or Missed** - Allows users to record their daily adherence directly in the app.
- **Local Data Storage (SQLite)** - Stores all information offline to ensure privacy and reliability.
- **Progress Report Dashboard** - Displays weekly or monthly adherence summaries (e.g., number of doses taken vs. missed).

6. Team Members and roles

Name	ID	Role
Biruk Alemayehu	0322/15	Database & logic developer
Ferhan Hussein	0573/15	Android Developer & Testing
Firdos Mohamed	0593/15	Lead UI/UX Designer
Mollaling Daniel	1070/15	Project Lead
Natnael Samuel	1125/15	Lead Android Developer