

# MediTrack Design Document

## Project Description

**MediTrack** is a web application designed to help individuals and families manage their daily medications, prescription refills, and medication intake tracking. The system allows users to register their medications, including dosage and schedule information, and record refill details such as refill date, quantity, and pharmacy, and mark whether a medication has been taken.

The goal of MediTrack is to help users maintain safe medication habits by keeping medication lists organized, ensuring prescriptions are up to date, and helping users remember daily medication intake. This is especially useful for caregivers, elderly patients, and individuals with chronic conditions who need a simple way to track medication information.

## Key Features

### Medications Management (Lili Mei Ye)

- Add a medication
- View all medications
- Edit medication information
- Delete a medication
- Mark medications as taken
- Record the date the medication was taken

### Refill Tracking (Helly Niteshbhai Diyora)

- Add a refill record
- View refill history
- Edit refill details

- Delete a refill record

## Database Design

The systems contains two collections:

### 1. Medications

- Medication Name
- Dosage
- Schedule
- Notes
- Daily intake status (taken or not taken)
- Time taken

### 2. RefillRecords

- Medication Name
- Refill Date
- Quantity
- Pharmacy

## User Persona

### **Maria - Family caregivers**

Maria looks after her elderly mother and manages her medications. She wants to make sure that the medications are organised properly, prescriptions are kept up to date, and medications are taken on time.

### Needs:

- View medication lists clearly
- Check refill status
- Update medications when prescription change
- See whether the medications are taken on time

### **Jason - Elderly patient**

Jason takes several medications every day. He sometimes forgets which ones he should take, and he worries about missing doses or out of prescriptions.

#### Needs:

- Simple list of medications
- Ability to check refill history
- Ability to mark medications as taken
- Clear information about the medications

### **Jessica - Adult with a chronic condition**

Jessica manages her own medication routine and would like a reliable record of her prescriptions, refills and daily intake.

#### Needs:

- Maintain and update medication information easily
- Mark medications as taken each day
- Track refill date over time

## **User Stories**

### **Maria (Caregiver)**

- As a caregiver, I want to check refill records, so I can make sure all prescriptions stay up to date.
- As a caregiver, I want to manage medications with dosage and schedules, so I can organize daily medication plans.
- As a caregiver, I want to see whether a medication has been taken today, so I can ensure my family member is safe.

### **Jason (Elderly patient)**

- As an elderly patient, I want to see my refill history, so I never run out of medications.
- As an elderly patient, I want to check a list of my medications, so I can know what medications I need to take.
- As an elderly patient, I want to mark when I take a medication, so I don't forget or take it twice.

### Jessica (Chronic condition patient)

- As an adult with a chronic condition, I want to record when I refill medication, so I can track my prescriptions overtime.
- As an adult with a chronic condition, I want to manage my own medications, so I can keep my medication information up to date.
- As an adult with a chronic condition, I want to see my daily medication intake status, so I can monitor my treatment adherence.

## Design Mockups

