

# MediTrack: Smart Medication Management System

## Week 4 Progress Report

### Project Information

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| Project Name: | MediTrack – Smart Medication Management System |
| Team Members: | Shahriar Kabir Omi, Sadaf Islam Mim            |
| Institution:  | Eastern University                             |
| Course:       | Software Engineering Lab                       |
| Week:         | 4 of 16  |
| Report Date:  | 10 August 2025                                 |

### Week 4 Objectives

The focus for Week 4 was to implement the core functionality of MediTrack — the Medication Management feature, which enables users to track their medications effortlessly with smart reminders, dosage logs, and a comprehensive database for safety.

### Completed Tasks

#### Medication Management Feature

- Comprehensive Medication Database: Created a structure to store medication name, dosage, frequency, start/end dates, and notes.
- Dosage Logging System: Implemented functionality for users to record doses taken, with timestamps for accuracy.
- Smart Reminders: Added front-end-based notification logic for upcoming doses with customizable schedules.
- User-Friendly UI: Designed a responsive interface for adding, editing, and viewing medication entries.
- Safety Checks: Integrated checks to prevent double-dosing alerts and ensure data accuracy.

### Current Status

The Medication Management module is functional on the frontend and partially prepared for backend integration. Users can add, view, and edit medication details, receive smart reminders, and maintain dosage logs on both mobile and desktop.

### Team Contributions

|                    |   |
|--------------------|---|
| Shahriar Kabir Omi | Developed the complete Medication Management feature. |
| Sadaf Islam Mim    | No contributions this week.                           |

Total Project Hours This Week: 9 hours

Cumulative Project Hours: 27.5 hours

### Project Timeline

- Week 1: Basic login and registration pages created.
- Week 2: Landing page HTML and CSS created.
- Week 3: Dark theme system and advanced interactions implemented.

■ Week 4: Medication Management feature implemented (frontend).

**Overall Progress:** 25% (4/16 weeks completed)

## Technical Achievements

- Functional medication database model ready for backend integration.
- Smart reminders implemented without performance degradation.
- Mobile and desktop responsive UI.
- Architecture prepared for future analytics and reporting tools.

## Next Week Preview

Week 5 will focus on solving bugs in week 4 and enhance UI & UX.

## Conclusion

Week 4 marks the successful implementation of MediTrack's core Medication Management feature. Users can now log, track, and be reminded of their medications in a user-friendly interface. The foundation is set for backend integration and future health-focused features.

Report Prepared By: Shahriar Kabir Omi

Date: 10 August 2025