

MediTrack: Smart Medication Management System

Week 3 Progress Report

Project Name:	MediTrack - Smart Medication Management System
Team Members:	Shahriar Kabir Omi, Sadaf Islam Mim
Institution:	Eastern University
Course:	Software Engineering Lab
Week:	3 of 16
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Week 3 Objectives

Building upon the successful completion of the landing page in Week 2, the primary objective for Week 3 was to enhance the user interface with modern theming capabilities and advanced interactive features to improve user experience and accessibility.

Completed Tasks - Dark Theme Implementation

Theme Toggle System: Developed a sophisticated toggle button with sun/moon icons positioned in the header navigation **Persistent Theme Storage:** Implemented local Storage functionality to remember user theme preferences across sessions **CSS Variable Architecture:** Created a comprehensive color system using CSS custom properties for seamless theme switching **Enhanced Color Palette:** Expanded the color scheme to support both light and dark modes with proper contrast ratios

Completed Tasks - Advanced Interactive Features

Scroll Animations using Intersection Observer API Parallax Effects in the hero section Dynamic Header changes on scroll Enhanced Hover Effects with transformations

UI/UX Enhancements

Improved glass morphism design for both themes Optimized typography for readability Refined mobile responsiveness

Code Architecture Improvements

Modular JavaScript organization CSS restructuring with logical grouping Performance optimizations

Current Status

The project's frontend now features a sophisticated, modern interface with comprehensive theming capabilities. The application provides exceptional user experience with smooth animations, responsive design, and accessibility considerations.

What Works

Complete dark/light theme system Smooth scroll animations and parallax effects Excellent performance across devices Enhanced accessibility

What's Not Implemented Yet

Backend integration of Database connectivity Form validation Medication tracking functionality

Team Contributions

Shahriar Kabir Omi: Led dark theme system & CSS architecture Implemented JavaScript functionality Enhanced design & responsiveness

Time Invested: 8 hours

Sadaf Islam Mim: Theme color selection & UX testing Responsive design & mobile optimization Accessibility feedback

Time Invested: 2.5 hours

Project Timeline

- Week 1: Complete (Basic login and registration pages)
- Week 2: Complete (Landing page HTML & CSS)
- Week 3: Complete (Dark theme system & advanced interactions)

Technical Achievements

Production-ready theme system 100% responsive design Modern web standards implemented Scalable architecture

Next Week Preview

Week 4 will focus on adding new features related to user management and medication tracking systems.

Conclusion

Week 3 objectives were exceeded, delivering a sophisticated theming system and enhanced UX, positioning MediTrack as a modern, professional health management application.