

MediTrack

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Table of Contents.

01 > Project Objective



02 > Technology Used



03 > User Personas



04 > Design mockups



05 > Demo



06 > Proudest moment



07 > Challenge



06 > Conclusion



01

Project Objective

MediTrack helps individuals and families manage daily medications and prescription refills.

- Track medications with dosage & schedule
- Mark medications as taken to avoid missed or duplicate doses
- Log and review prescription refill history
- Designed for caregivers, elderly patients, and those with chronic conditions

Technology Used

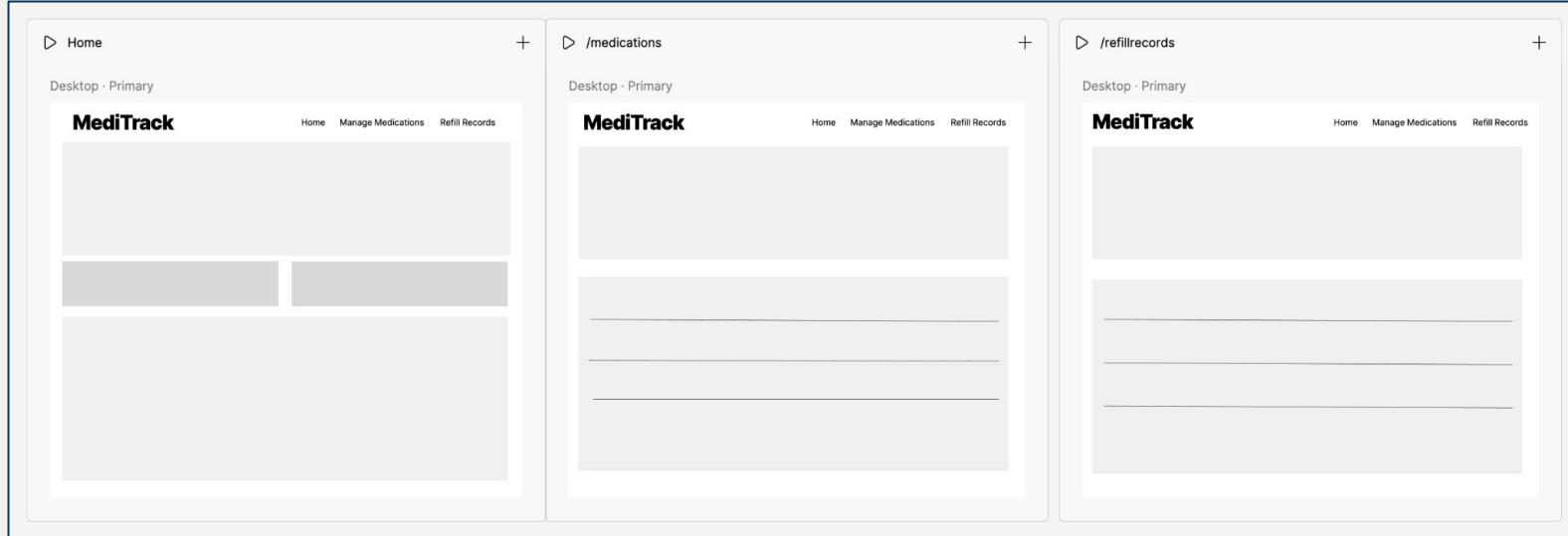
- **Frontend:** HTML5, CSS3, Vanilla JavaScript (client-side rendering)
- **Backend:** Node.js + Express v5
- **Database:** MongoDB (native driver, no Mongoose)
- **Tools:** ESLint + Prettier, dotenv
- **Architecture:** REST API with modular ES Modules

03

User Personas

- **Maria (Caregiver)** — Manages her elderly mother's medications. Needs to organize prescriptions, check refill status, and confirm medications are taken.
- **Jason (Elderly Patient)** — Takes several daily medications. Needs a simple list, refill tracking, and a way to mark medications as taken.
- **Jessica (Chronic Condition)** — Self-manages her routine. Needs reliable records of prescriptions, refills, and daily intake.

04



Design Mockups

05

The image shows the MediTrack mobile application interface. At the top, there is a navigation bar with three buttons: "Home", "Manage Medications", and "Refill Records". The main content area has a light blue header with the "MediTrack" logo and the tagline "Stay safe. Stay organized. Never miss a dose.". Below this, there are two main sections: "Manage Medications" and "Refill Records". The "Manage Medications" section includes a sub-section titled "About MediTrack" which describes the app as a simple medication tracking app for families and patients, allowing users to manage medications, track daily intake, and keep refill records all in one place.

● MediTrack

Home Manage Medications Refill Records

MediTrack

Stay safe. Stay organized. Never miss a dose.

Manage Medications

Add, track, and mark medications as taken.

Refill Records

Log and review your prescription refills.

About MediTrack

MediTrack is a simple medication tracking app for families and patients.

Here, you can manage your medications, track daily intake, and keep refill records all in one place.

Live Demo -

Proudest moment

- Building a full-stack CRUD app with two MongoDB collections and clean separation between frontend and backend
- Achieving modular code organization — each page has its own HTML, CSS, and JS files
- Implementing inline editing on the Refill Records page — the form switches between Add and Edit mode seamlessly
- Handling 1,000+ records with pagination that works smoothly

Challenge

- Coordinating between team members and ensuring consistent code style, shared navbar, and matching CSS design tokens across independently developed pages
- Seed data field mismatches - the seed script used different field names than the frontend, causing display bugs that required debugging
- No template engine - building all UI with vanilla JavaScript createElement and innerHTML required careful DOM management

08

Thank you!

Do you have any questions?

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