

# Enhancing with Light: New Era of Medical Technology

**Team:** Cathy Ly, Ryan Lucero, Zach Trusso, Marco Castrita

**Client:** Jesslynn Armstrong

**Mentor:** Paul Deasy



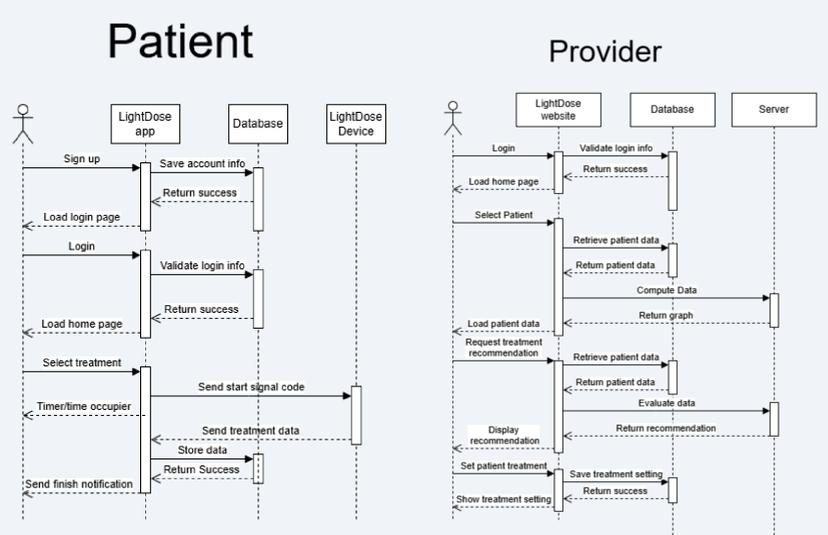
## Motivation

- **Client's Needs:** Affordable, non-invasive solutions for comprehensive health, including pain relief and various other health benefits.
- **Goal:** Develop a **mobile app** that *securely* monitors biometric data and uses gamification to engage patients in managing their health.

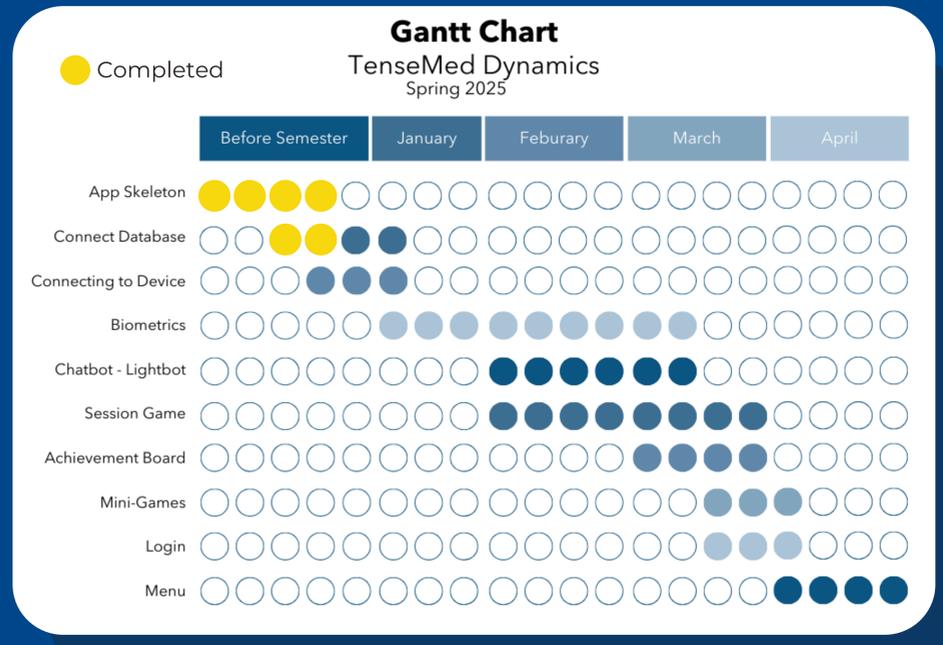
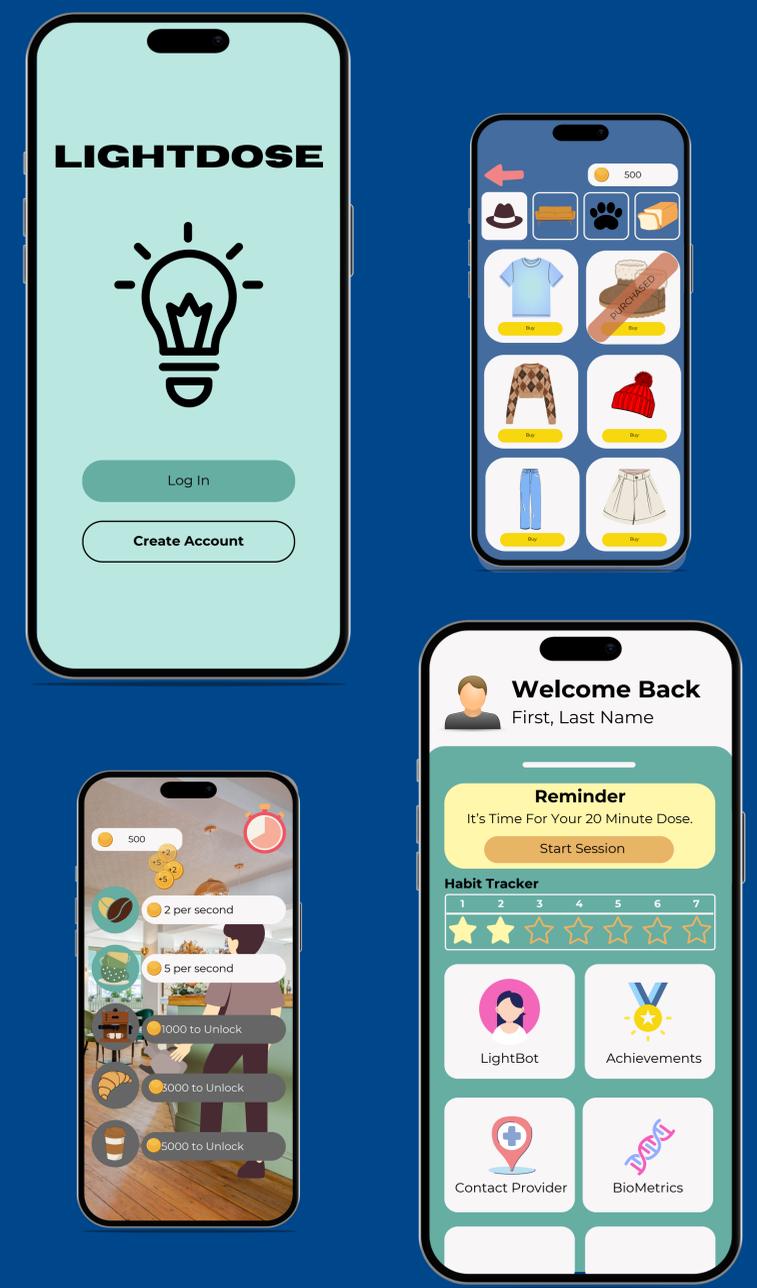
## Outcomes

- Extensive effort into **research** for technologies
- Multiple rounds of *interviews with the Client* for a better understanding of the **MedTech** field
- Developing a prototype using Flutter
- Worked closely with ME and EE teams

## Architecture



## Prototype



## Key Features

- Real-Time Data Tracking
- Healthcare **Chatbot**
- Security & Compliance: HIPAA
- Cross-Platform Availability



## Future Work

- Connecting Application to **Adafruit Board**
- Tracking and Displaying Biometrics
- Multi-Factor Authentication
- Design Chatbot Avatar and Dialogue



## Technologies