Project Plan: Medicine Selling Website

Project Setup #setup
- [ ] Create a new Git repository
- [ ] Set up a React project
- [ ] Set up a Spring Boot project

Frontend Development #frontend
Components
- [ ] Create Header Component
  - [ ] Logo
  - [ ] Navigation Menu
- [ ] Create Footer Component
- [ ] Create Home Page
  - [ ] Banner Section
  - [ ] Featured Products Section
- [ ] Create Product List Page
  - [ ] Product Card Component
  - [ ] Filter and Sorting Options
- [ ] Create Product Detail Page
  - [ ] Product Information
  - [ ] Add to Cart Button
- [ ] Create Cart Page
  - [ ] List of Selected Products
  - [ ] Checkout Button
- [ ] Create Authentication Pages
  - [ ] Login Page
  - [ ] Register Page

State Management
- [ ] Set up Redux
- [ ] Create Actions and Reducers for:
  - [ ] User Authentication
  - [ ] Product Listing
  - [ ] Cart Management

Backend Development #backend
Database Setup
- [ ] Design Database Schema
  - [ ] Users Table
  - [ ] Products Table
  - [ ] Orders Table

API Development
- [ ] Create User API
  - [ ] Register User Endpoint
  - [ ] Login User Endpoint
- [ ] Create Product API
  - [ ] Get All Products Endpoint
  - [ ] Get Product By ID Endpoint
- [ ] Create Order API
  - [ ] Create Order Endpoint
  - [ ] Get User Orders Endpoint

Security
- [ ] Implement JWT Authentication
- [ ] Secure Endpoints with JWT

Integration #integration
- [ ] Integrate Frontend with Backend
  - [ ] Set up Axios for API calls
  - [ ] Connect Product List Page to Product API
  - [ ] Connect Product Detail Page to Product API
  - [ ] Connect Cart Page to Order API

Testing #testing
- [ ] Write Unit Tests for React Components
- [ ] Write Integration Tests for APIs
- [ ] Perform End-to-End Testing

Deployment #deployment
- [ ] Set up CI/CD Pipeline
- [ ] Deploy Backend to Heroku
- [ ] Deploy Frontend to Netlify
- [ ] Configure Domain and SSL

Maintenance #maintenance
- [ ] Monitor Application Performance
- [ ] Perform Regular Code Reviews
- [ ] Upgrade Dependencies Periodically