
Project Name:

Treatment and medications

Project Sponsor:

Dr. Ayman El-Sayed

Project Manager:

Eng. Marwa Hassan

Date:

October 19, 2025

Project Purpose and Justification:

The purpose of this project is to save time for patients, especially the elderly, in searching for medications. It aims to eliminate the manual and exhausting process of moving between different pharmacies, reduce the risks caused by delays in obtaining treatment, and solve the issue of high medication prices in some pharmacies compared to others by unifying medication data and pricing.

Project Description:

This project offers a digital platform through which the user can identify nearby pharmacies where the required medication is available. It also allows price comparison to help the user find the most suitable option. The aim is to replace the struggle of manual searching with a unified and efficient pharmaceutical system.

Project Objectives:

- **To reduce the time for searching for the drug as well as for information about its supply.**
 - **An application that helps people learn whether the drugs they need are available and at what price will also provide a platform through which users can place orders online.**
 - **Makes them feel the service is fast and easy to use.**
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Deliverables:

- **The main goal of this project is a complete web application along with a guide for users on how to use it. The application is kept up to date regularly to maintain its quality.**
 - **Users are able to indicate the quantity of medicine, the correct price, and the closest pharmacy. In addition to that, they can place the order for the product anytime online, 24 hours a day.**
 - **This application is accessible by signing up on the application and providing the payment method and address.**
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Milestones & Timeline:

- Requirements gathering: January 2026
- System design: February 2026

- Development: March – April 2026
 - Testing: May 2026
 - Deployment & training: June 2026
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Technical Requirements:

- Platform: Web-based application compatible with modern browsers (Chrome, Firefox, Edge, Safari).
 - Operating System: Should operate on Windows 10/11, macOS, and Linux environments where browsers run.
 - User Interface: We will need a mobile application for Android and iOS.
 - Database: A database system such as Firebase, MySQL, or PostgreSQL.
 - Location Services: Integration with Google Maps API for location tracking.
 - Notifications: Firebase Cloud Messaging (FCM) for alerts and notifications.
 - Registration System: User registration via Email, mobile number, or OTP verification.
 - Security: SSL encryption and secure data handling with role-based access for pharmacists, users, and administrators.
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Limits and Exclusions:

- **Pharmacy Integration: The system is limited to only those pharmacies which are registered and have agreed to participate.**
 - **Payment System: There is no provision for an electronic or financial payment system within the scope of the project.**
 - **The app is only meant to show the availability of medicines and the locations of pharmacies without involving any sales or purchases.**
 - **Delivery Services: The application is not offering delivery services, whether it is a self-delivery or third parties.**
 - **Medicine Availability and Pricing: The system shows the information given by pharmacies and does not assure that medicines will be available at all times or that the prices will be the same in different pharmacies.**
 - **Future Enhancements:**
 - **Smart Notifications System – to inform users when a certain medicine is available near them.**
 - **Pharmacy Rating & Feedback – enabling users to rate the pharmacies in terms of service and data provided.**
 - **Medical Information Section – giving correct information about medicine usage, warnings, and alternatives from trusted sources.**
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Approval:

- Project Sponsor: _____ Date: _____

• Project Manager: _____ Date: _____
