Project Proposal: PharmaNearby Mobile Application

1. Introduction PharmaNearby is a cross-platform mobile application developed using React Native that empowers users to easily access detailed drug information and locate nearby pharmacies. Leveraging the OpenFDA API and Geoapify Places API, this app delivers real-time data on pharmaceutical products, including their purpose, warnings, and manufacturer information, while also offering geolocation-based discovery of pharmacies.

2. Purpose of the Application The primary goal of PharmaNearby is to provide users with a convenient and informative tool for managing their health needs. It helps users make better decisions about medications by providing trusted and up-to-date information, and also simplifies the task of finding nearby pharmacies to purchase or inquire about the drugs.

3. Why is this application useful?

- **Informed Healthcare Decisions:** Provides FDA-sourced data for a variety of prescription and over-the-counter drugs.
- **Convenience:** Users can search drug details and instantly find the nearest pharmacies, all in one place.
- **Accessibility:** Ensures users without prior medical knowledge can easily understand critical information.
- **Personalization:** Users can save important drugs for quick reference.
- **Offline Awareness:** Stored drug information allows access even when temporarily offline.

4. List of Key Functionalities

- Drug Search by Brand or Generic Name
- Display of Drug Details (Purpose, Manufacturer, Warnings)
- Save & Manage Favorite Drugs
- Locate Nearby Pharmacies using the current location
- Open the pharmacy location in Google Maps
- Modern and user-friendly UI design
- Support for Firebase Firestore to store saved data

5. Work Distribution *Team Members: Darsh Shah & [Teammate Name]*

- **Darsh Shah | 101452662**
  - Integration with OpenFDA API
  - Drug details screen & save functionality
  - Firebase Firestore integration
  - UI enhancements and styling
- **Ashwani Singh Mann | 101494701**
  - Geoapify API integration for location services
  - Nearby pharmacy list view with distance metrics

- ○ Navigation and routing between screens
- ○ Testing and final deployment setup

6. Tools and Technologies

- React Native
- OpenFDA API
- Geoapify Places API
- Firebase Firestore
- Expo CLI

Conclusion: PharmaNearby will provide a real-world, socially impactful utility by offering instant access to accurate drug data and pharmacy locations. It stands as a helpful companion app for users seeking medication support with confidence and clarity.