

MedGuru - (PRD)

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1. Objective

Develop an Android application, **MedGuru**, to help users locate affordable, government-authorized medicine alternatives during emergencies like the COVID-19 pandemic. The app aims to reduce medicine discovery time and increase accessibility to essential medicines.

2. Target Audience

- **Primary Users:** College students, families, and residents in Delhi-NCR seeking affordable medicines.
 - **Secondary Users:** Healthcare professionals and pharmacists who want quick reference to medicine availability and pricing.
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3. Core Features

- **Medicine Search:** Users can search for government-authorized medicines and view availability in nearby pharmacies.
- **Price Comparison:** Provides pricing information to help users choose affordable options.
- **Real-time Data Integration:** Syncs with open-source government pharmacy data for accurate availability and prices.
- **User Profile Management:** Tracks searches and preferences for faster recommendations.
- **Educational Content:** Tips on safe medicine usage and alternatives.

4. Technical Requirements

- **Platform:** Android (Kotlin/XML)
- **Architecture:** MVVM for scalable code structure
- **Database:** Firebase Realtime Database for backend storage
- **Networking:** APIs to fetch open-source pharmacy data
- **Authentication:** Firebase Authentication for secure login
- **Push Notifications:** Firebase Cloud Messaging for updates on availability

5. Design and User Experience

- **User Interface:** Clean and intuitive interface suitable for quick searches.
- **Accessibility:** Designed for easy use under stressful situations like health emergencies.
- **Localization:** Hindi and English support to reach wider user base in Delhi-NCR.

6. Security and Privacy

- **Data Privacy:** Ensures user search history and personal information are securely stored.
 - **Compliance:** Adheres to basic data protection guidelines.
 - **User Consent:** Users must consent to data collection for personalized experience.
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7. Scope & Limitations

- **Geographic Scope:** Delhi-NCR region
 - **Beta Testing:** Tested only within college users
 - **Data Source:** Open-source government pharmacy database
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8. Milestones and Timeline

| Milestone | Completion Date |
|--------------------|-----------------|
| Project Planning | April 2020 |
| Design Phase | May 2020 |
| Development Phase | June 2020 |
| Beta Testing | July 2020 |
| Launch Preparation | August 2020 |
| Post-Beta Updates | September 2020 |

9. Success Metrics

- **User Impact:** Reduced medicine discovery time by **40%** during beta testing
 - **Technical Performance:** Achieved **98% uptime** with Firebase backend
 - **User Reach:** Primarily Delhi-NCR area during initial launch
 - **Data Accuracy:** Leveraged official open-source pharmacy data
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10. Risks and Mitigations

| Risk | Mitigation Strategy |
|--------------------------|--|
| Data Accuracy | Regular updates from government pharmacy datasets |
| Limited User Base | Beta testing with college users before wider rollout |
| Technical Bugs | Iterative testing and Firebase monitoring |
| Accessibility Challenges | Simple UI/UX for easy adoption under stress |