

Project Proposal

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Course: Mobile Development

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DasTern

I. Problem Statement

Many Cambodian patients face difficulties managing their medication after leaving the hospital. They often forget dosage times, mix up multiple medicines, or lose written instructions. Elderly patients and those with low digital literacy are especially vulnerable to missing doses, which can slow recovery or lead to health complications. Without a simple system to organize and remind them, patients struggle to maintain consistent treatment at home.

II. Proposal of the Application

DasTern is developed to solve these problems by providing a clear and easy way for patients to manage their medication schedules manually. Instead of relying on OCR or scanning, the app uses simple CRUD operations—allowing users to add, view, update, and delete medication reminders. This ensures the system stays lightweight, reliable, and accessible for all types of users.

III. Target Users

The application is designed for patients taking daily medication, elderly individuals who easily forget their schedules, and family members who help with healthcare routines. It also benefits caregivers who need a structured way to monitor treatment. With full Khmer language support and a simple interface, DasTern is suitable even for users with limited digital skills.

IV. What the App Brings to Users

DasTern provides accurate reminder alerts based on the user's manually entered schedules. Patients can organize their medicine details, such as dosage frequency and intake time, and update them anytime. This helps create a disciplined medication routine, reduces missed doses, and gives both patients and families peace of mind. By improving treatment consistency, DasTern directly contributes to better health outcomes.

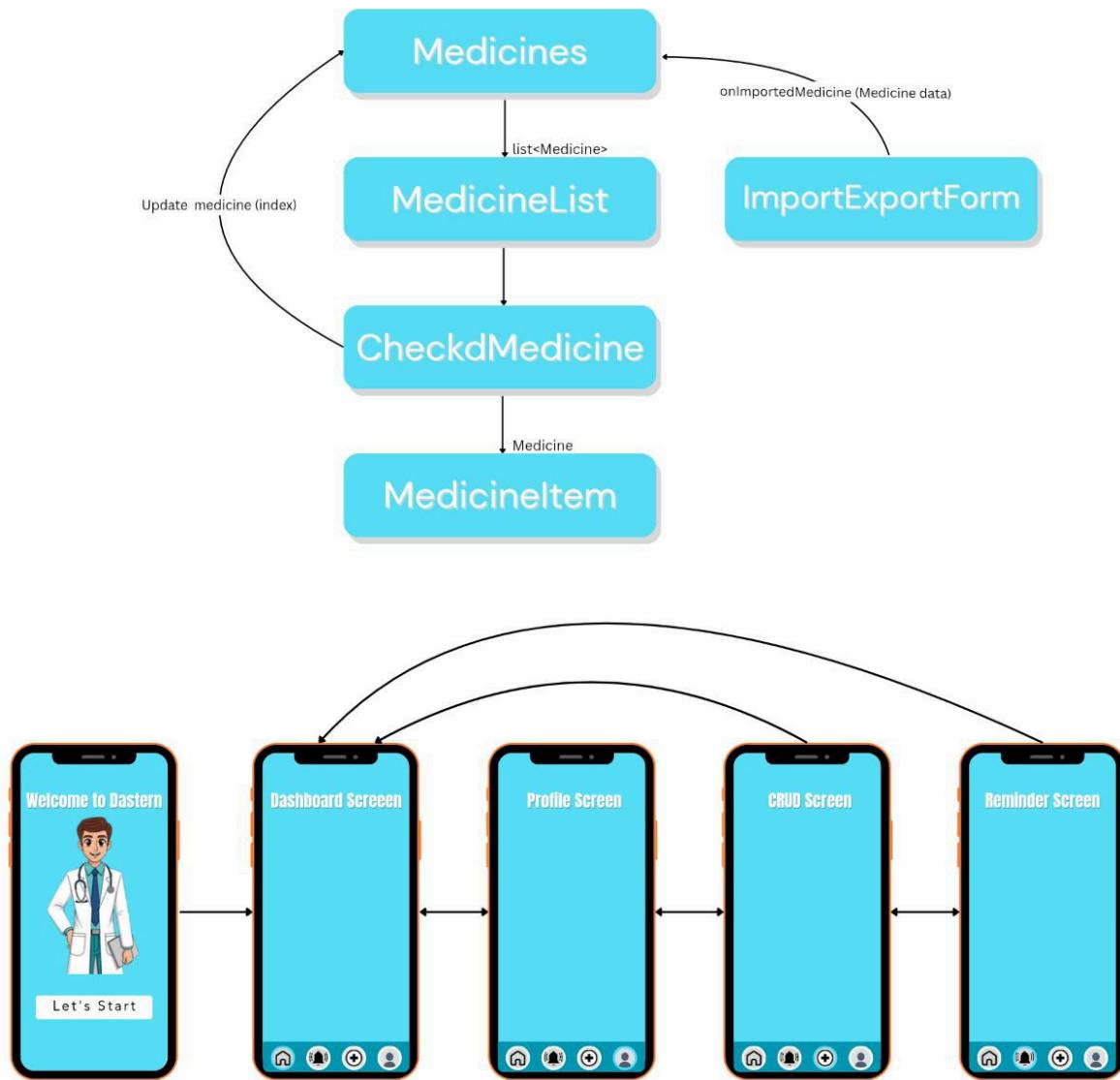
V. Uniqueness of Application

DasTern stands out because it focuses on delivering a simple, reliable, and user-friendly **medication reminder system** designed specifically for Cambodian patients. While many reminder apps are complicated or fully in English, DasTern provides a clean Khmer interface that allows users to manually add, edit, and delete their medicine schedules with ease.

The app is unique because it removes unnecessary complexity and focuses on the core function patients truly need: **accurate, easy-to-use medication alerts**. It supports users with low digital literacy through clear layouts, local language instructions, and simple reminder settings.

By prioritizing accessibility and cultural fit, DasTern offers a reminder experience that is more practical and usable than general foreign apps.

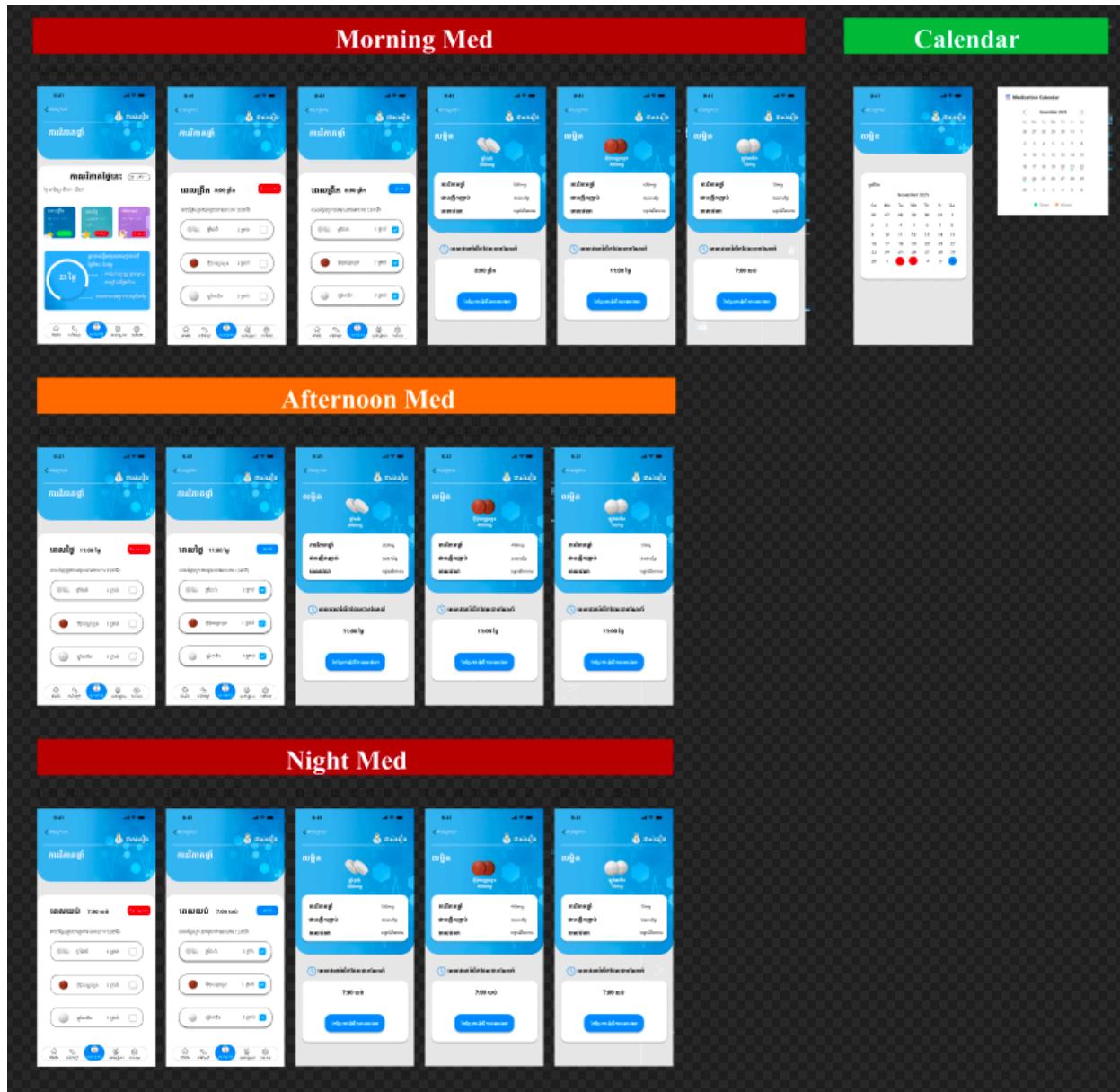
VI. Application Wireframe



- The **Welcome Screen** is the first screen users see, allowing them to start using the application and proceed into the system.

- The **Dashboard Screen** acts as the main navigation hub, giving users quick access to all key features of the application.
- The **Profile Screen** allows users to view and manage their basic personal information.
- The **CRUD Screen** is the core functional screen where users can add, edit, update, and delete their medication reminders manually.
- The **Reminder Screen** displays all active medication schedules, showing reminder times and medicine details for easy tracking.
- The **Medicine List** screen organizes all saved medicines in a structured list.
- The **Check Medicine** screen allows users to review medication details before confirming or updating them.
- The **Medicine Item** screen represents individual medicine records with specific dosage and schedule information.

VII. Figma Design



VIII. Conclusion

In conclusion, DasTern is designed as a simple and user-friendly medication reminder application that addresses common challenges faced by patients in managing their treatment at home. By focusing on a manual CRUD-based reminder system, the application ensures ease of use, reliability, and accessibility for users with varying levels of digital literacy. The system design and wireframes demonstrate a clear and intuitive user flow, enabling users to easily add, manage, and track their medication schedules. DasTern provides a practical solution tailored to the needs of Cambodian patients. This prototype establishes a strong foundation for future development and implementation in the next phase of the capstone project.