

Mobile Computing Final Project Submission

Objective Achievement:

The Medilink app has successfully achieved its stated objective of simplifying medication management for seniors. Through features like easy refill requests, seamless delivery scheduling, and medication tracking, it effectively addresses the challenges faced by elderly users in managing their medications.

Value Proposition Delivery:

The app delivers on its value proposition of simplifying medication management by offering user-friendly interfaces tailored to the needs of seniors. With personalized medication reminders and seamless communication with healthcare providers, it streamlines routines and improves health outcomes, thus fulfilling its promise.

Privacy and Security:

Medilink prioritizes user privacy and security by implementing secure storage solutions like SecureStore for sensitive data and ensuring transparent communication regarding permissions. By adhering to best practices in data handling, it ensures the confidentiality and integrity of user information.

App Lifecycle and State Management:

The app demonstrates proper app lifecycle and state management, ensuring smooth transitions between different screens and preserving user data across sessions. With robust error handling and state persistence mechanisms, it provides a seamless user experience throughout.

Additional Mobile App Development Challenges:

1. Integration with Twilio: The app effectively integrates with Twilio's API for messaging services, overcoming challenges related to authentication, API rate limits, and error

management. By leveraging Twilio's SDKs and implementing retry mechanisms, it ensures reliable communication with users.

2. Accessing Web Services from Another Server: Medilink effectively communicates with web services hosted on external servers, overcoming challenges like network latency and server-side errors. With robust error handling and secure communication practices, it ensures uninterrupted service for users.

3. Handling Gallery Permissions: The app successfully manages permissions related to accessing user data like the gallery, ensuring compliance with platform requirements. By transparently communicating the need for such permissions and providing assurances regarding data privacy, it fosters user trust and confidence.

User Experience:

Medilink provides a superior user experience with its intuitive interfaces, clear navigation menus, and prominent notifications. By prioritizing accessibility features for elderly users, such as larger text sizes and simple layouts, it ensures ease of use for users of all technological backgrounds.

Overall Assessment:

The Medilink app has excelled in achieving its objectives, delivering on its value proposition, ensuring user privacy and security, managing app lifecycle and state effectively, addressing key mobile app development challenges, and providing a seamless user experience. With its robust features and user-centric design, it stands as a testament to successful medication management for seniors.