

Functional Requirements

1. Design the User Interface

Create a user interface (UI) design for your app. Consider the screens and components required for card registration, card details, balance management, and transaction history. Use design tools or frameworks to create visually appealing UI mockups.

2. Set Up Development Environment

Install and set up the necessary software and tools for Android app development. This typically includes installing Android Studio, the official integrated development environment (IDE) for Android development.

3. Create Project in Android Studio

Open Android Studio and create a new Android project. Set the project name, package name, and other project configurations as per your requirements.

4. Develop User Registration and Login

Implement the user registration and login functionality. Allow users to create an account using their email or phone number and set up a password. Provide a secure authentication mechanism to ensure user data protection.

5. Build Card Management System

Develop the features for managing virtual cards. Implement functionalities like card registration, card details display, and card balance management. Store card information securely, considering encryption or other security measures.

6. Implement Card Recharge

Enable users to recharge their virtual cards. Integrate with payment gateways or third-party payment APIs to securely process card top-ups. Ensure that sensitive user payment information is handled securely.

7. Track Card Usage and Transaction History

Develop functionality to track card usage and maintain a transaction history. Keep a record of transactions, including details such as date, time, amount spent, and transaction type..

8. Implement Security Measures

Apply security measures to protect user data and ensure secure transactions. Implement encryption, secure communication protocols, and user authentication mechanisms to enhance data security.