

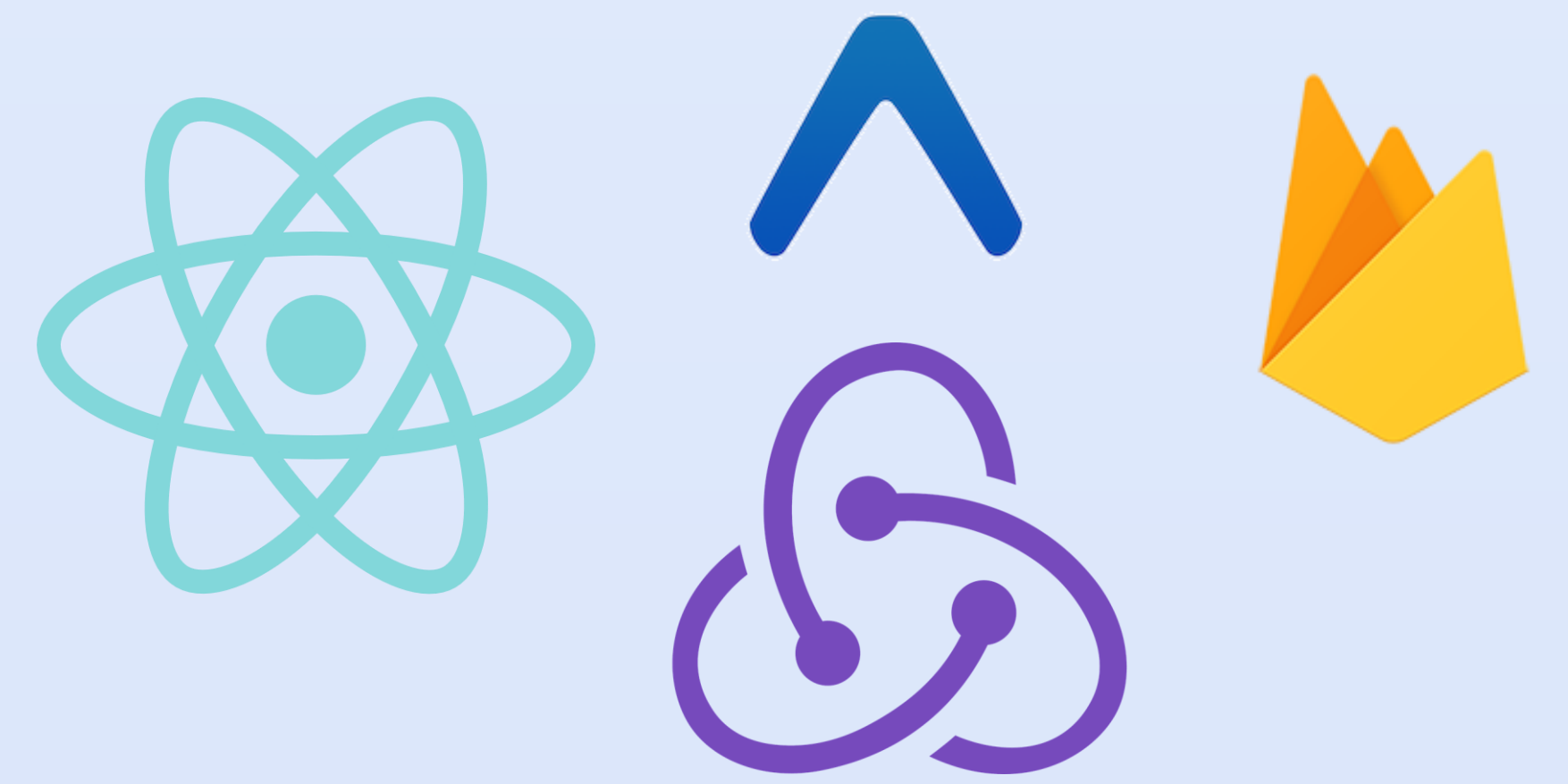


FIU School of Computing & Information Sciences

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Nihon-GO 1.0

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Problem

- ❖ Japan has various language and cultural barriers
- ❖ Limited accessibility to less known areas in Japan
- ❖ Areas that are not well known tend to struggle with bringing in tourists
- ❖ Lack of guides on these areas and the experiences they provide

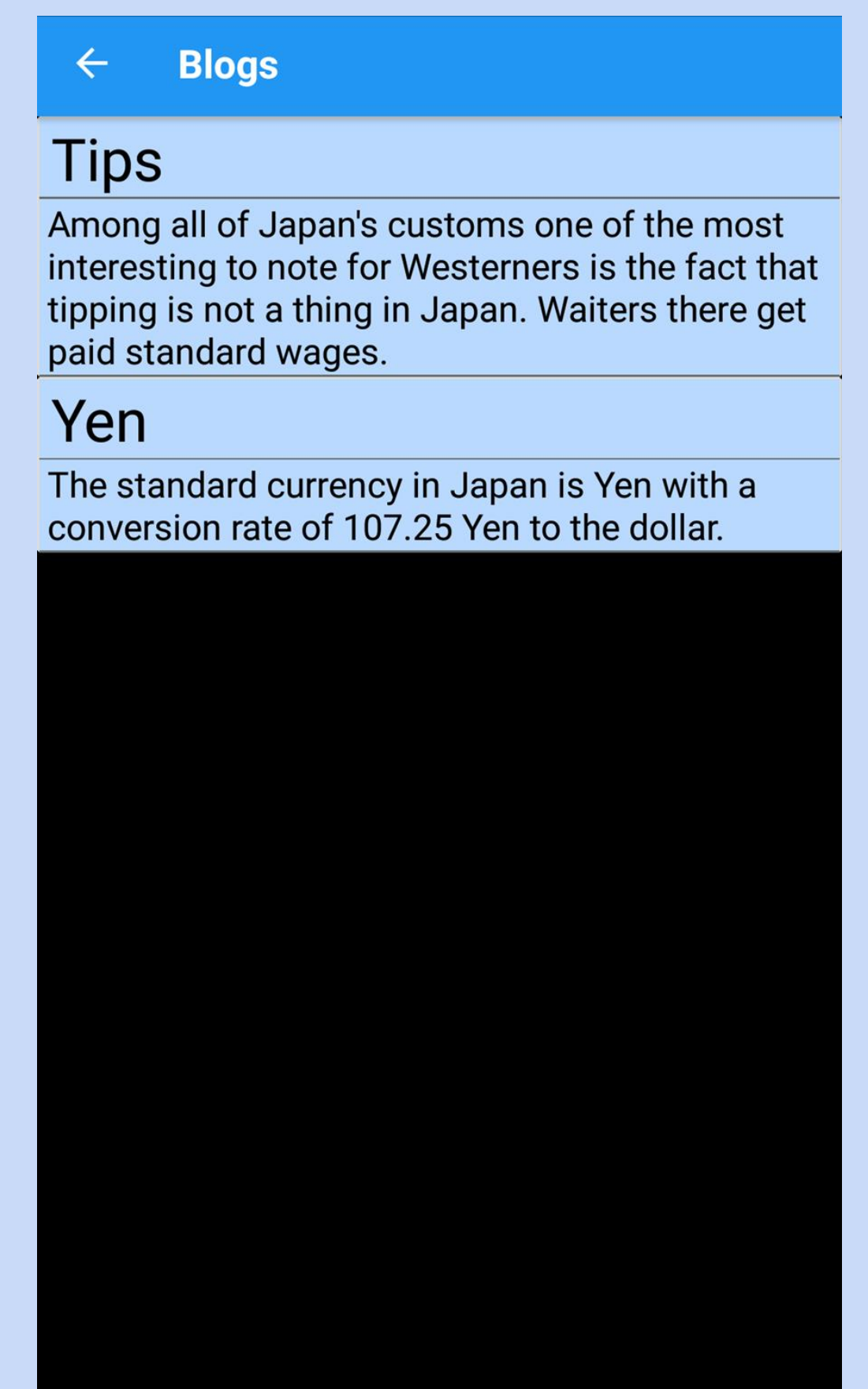
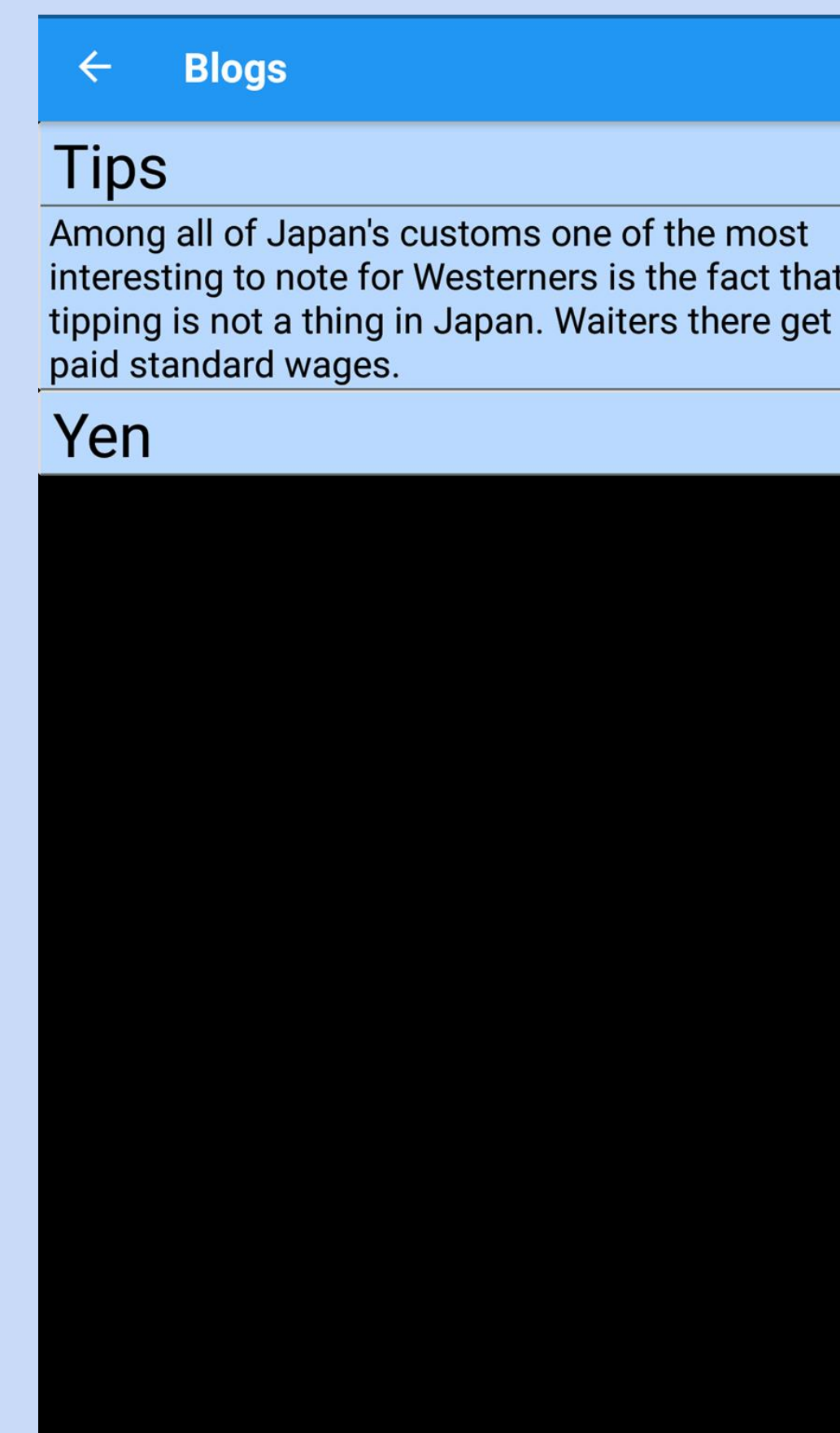
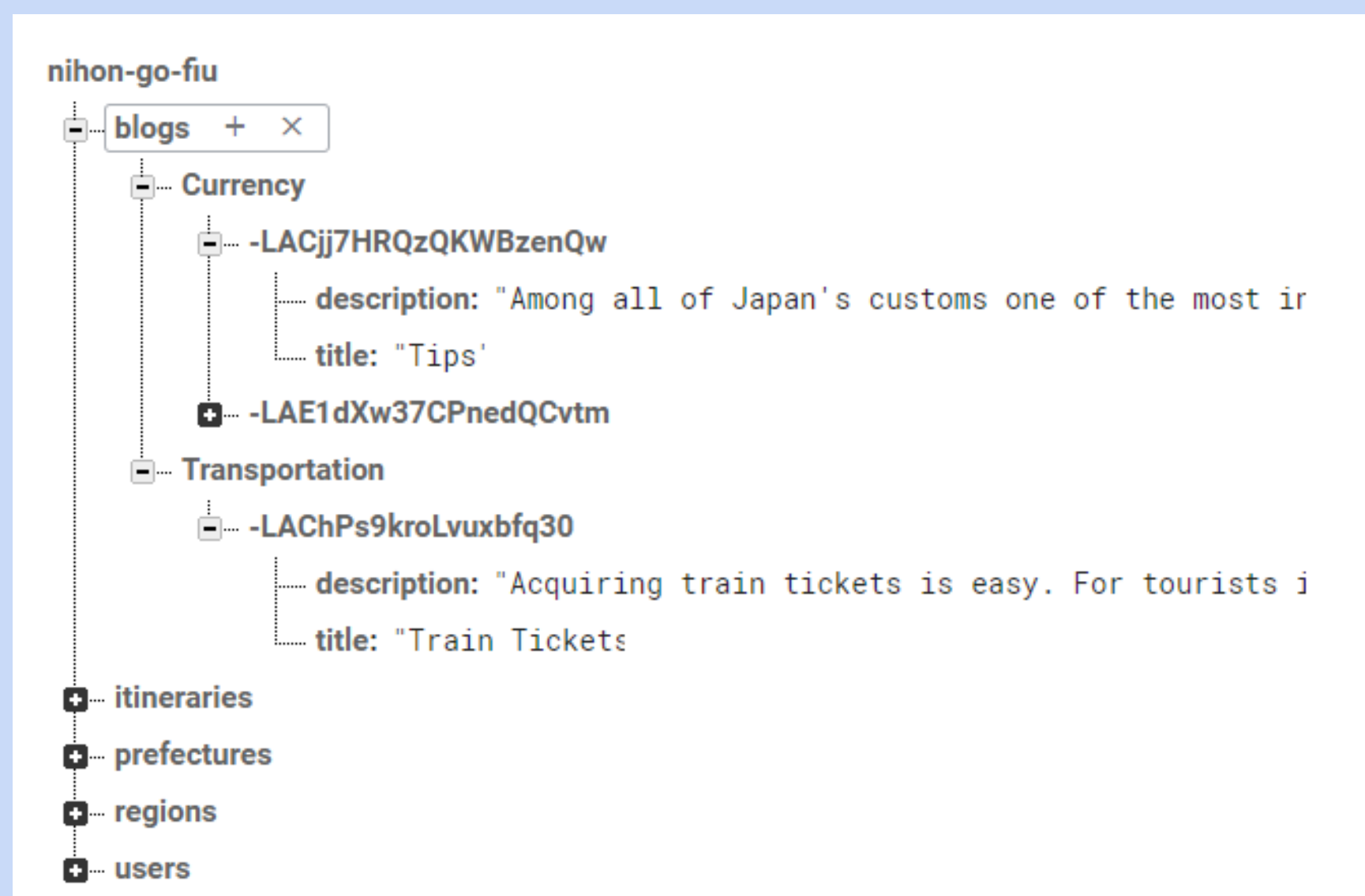
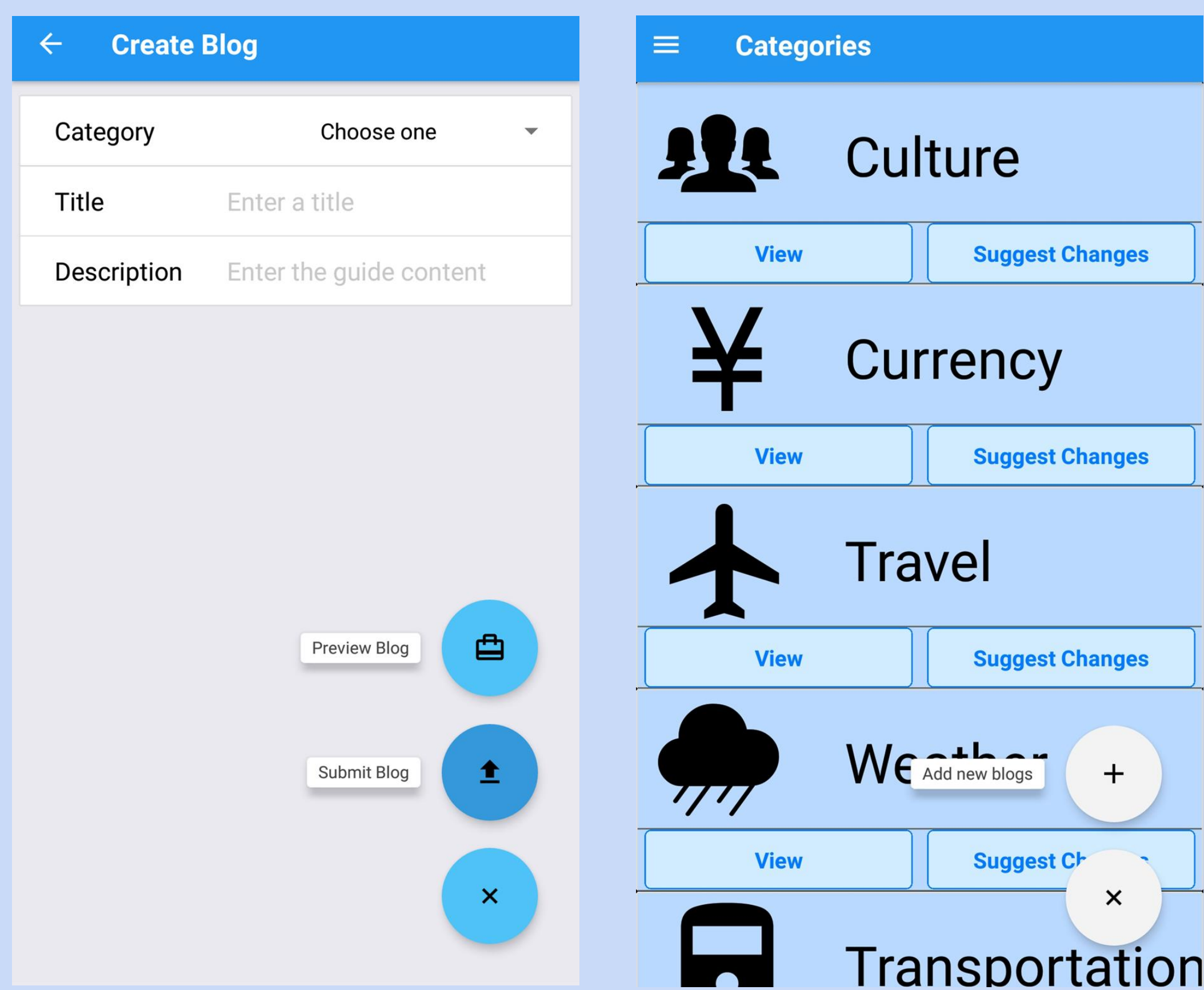
Solution

- ❖ Allows user created itineraries which can be shared and grow with user approval
- ❖ Facilitates and encourages exploration
- ❖ Brings more attention to not so well known areas with Itineraries provided by users and sponsors
- ❖ Useful guides for those that visit and don't know customs

Current System

- ❖ Searching Itineraries is difficult & overwhelming for tourists
- ❖ Many existing itinerary apps do not show a focus on Japan
- ❖ Existing apps lack social media aspects
- ❖ Only popular regions and events are easily accessible to tourists

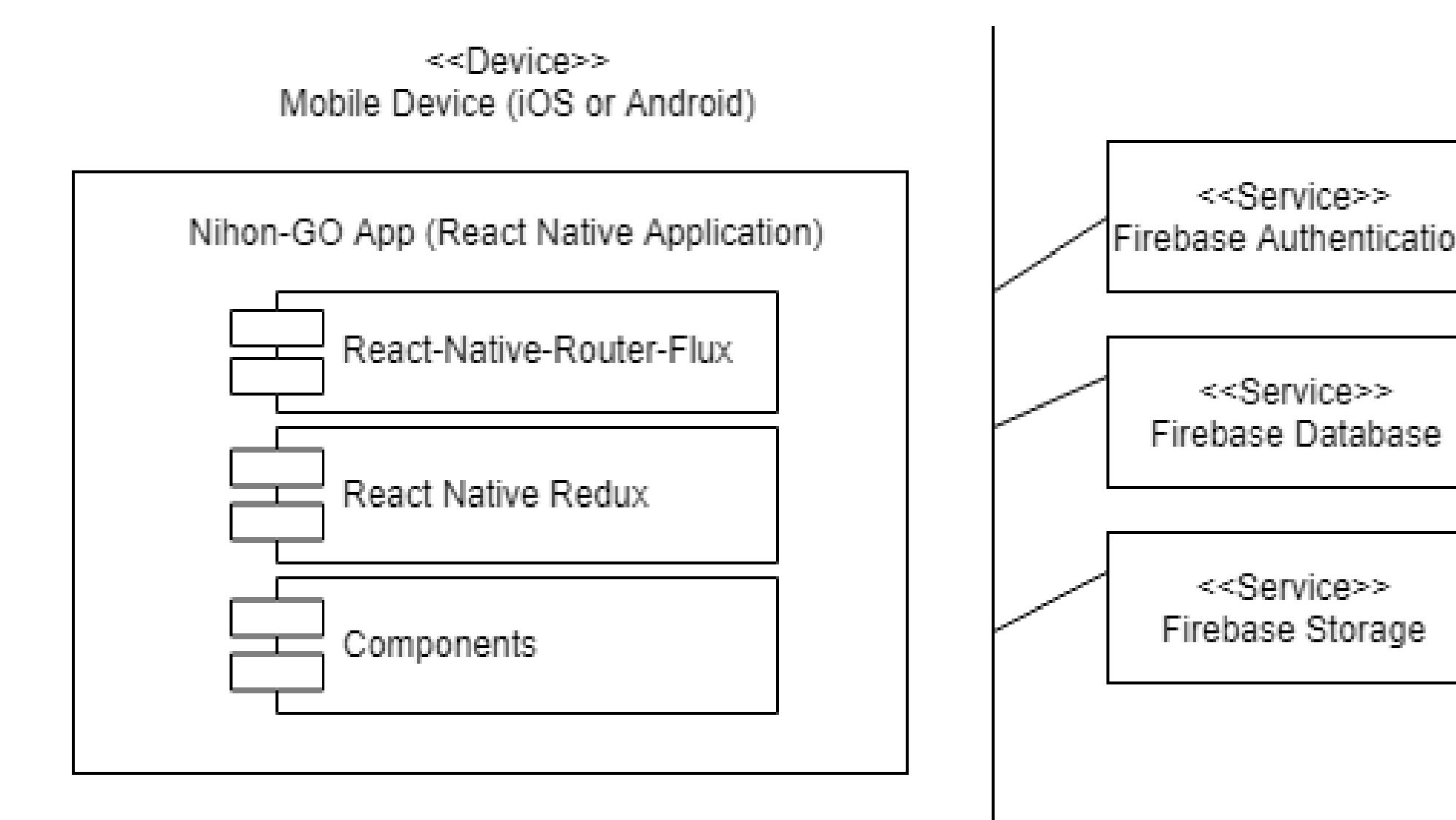
Screenshots



Requirements

- ❖ Multi-Platform mobile app with easily accessible and simple UI
- ❖ Guides providing relevant info about the region and its customs
- ❖ Custom interactive map for users to explore Japan in the homepage
- ❖ Itineraries are public to all users and stored in Firebase
- ❖ Itineraries are listed for all regions
- ❖ Ease of navigation with a drawer style menu
- ❖ Profile to save and keep track of itineraries and guides

System Design



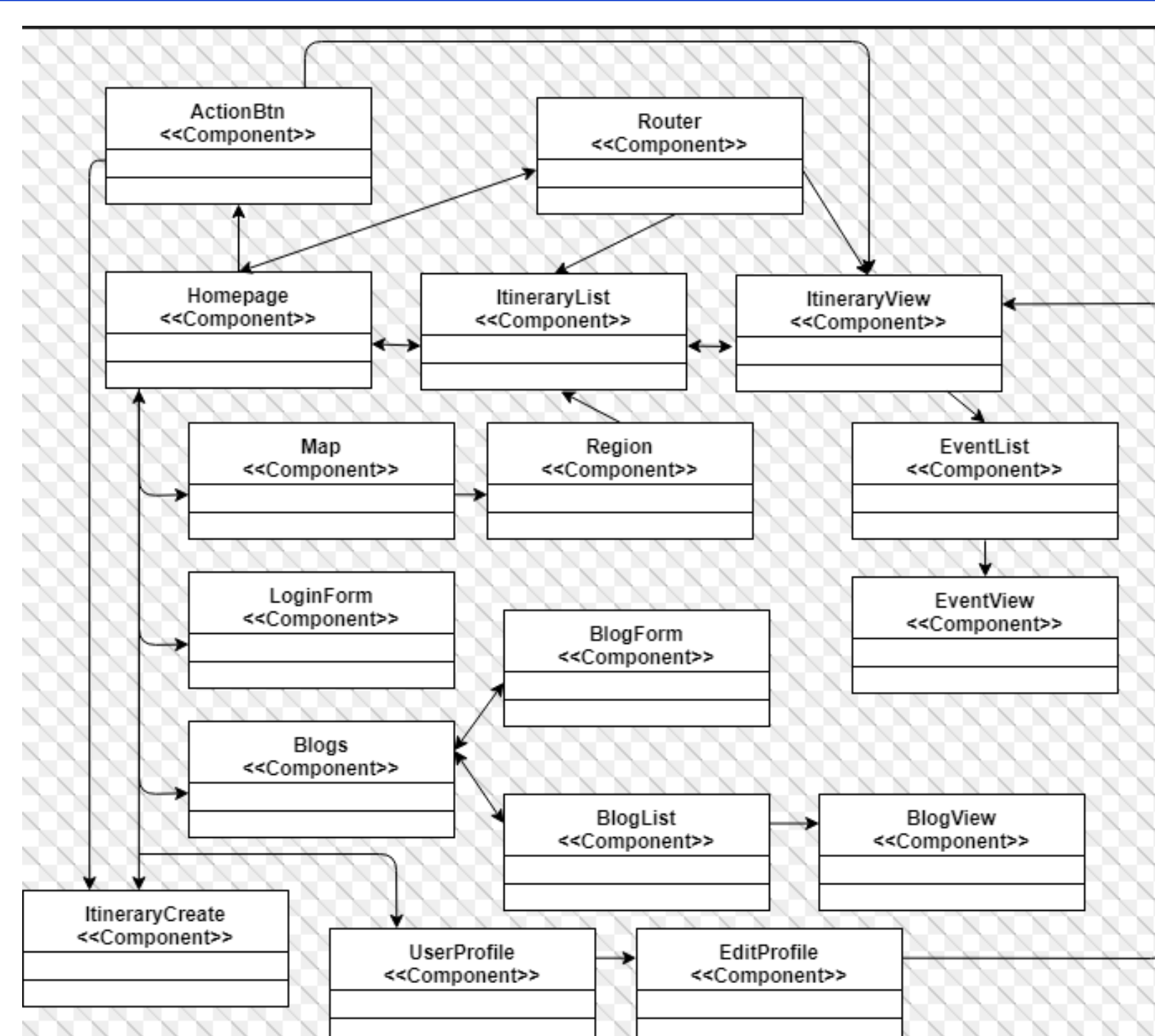
Implementation

- ❖ Application is written with React Native
- ❖ Uses Redux for data flow
- ❖ React-Native elements for some components
- ❖ Utilizes expo to build the cross-platform application
- ❖ Utilizes Google Firebase platform for authentication, database and storage
- ❖ Google API for location services

Verification

- ❖ Manual system testing on Android and iOS and Xcode and Android Studio emulators to test larger range of devices.
- ❖ Mockaroo JSON used to generate large mock data for testing loading speeds.

Object Design



Summary

- ❖ Cross-Platform mobile app that provides travel information to Japan
- ❖ Solves problem with accessibility by making UI intuitive
- ❖ Itinerary system allows users to share personal experiences in Japan
- ❖ Profile system allows users to track itineraries for ease of access

Acknowledgement

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