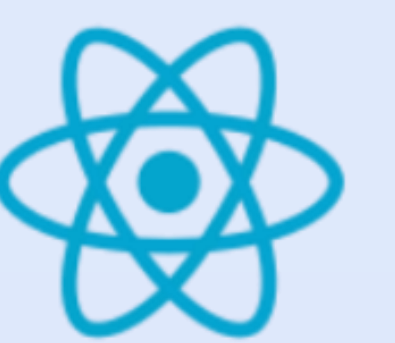




School of Computing &  
Information Sciences

## V.I.P. 2018 Spring Nihon-Go!

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React Native

Firebase

### Problem

- Japan is a country with major language and cultural barriers
- Hard to find travel recommendations that cater to a western perspective.
- Areas “off the beaten path” struggle to attract western tourists.
- There is a lack of guides for these areas.

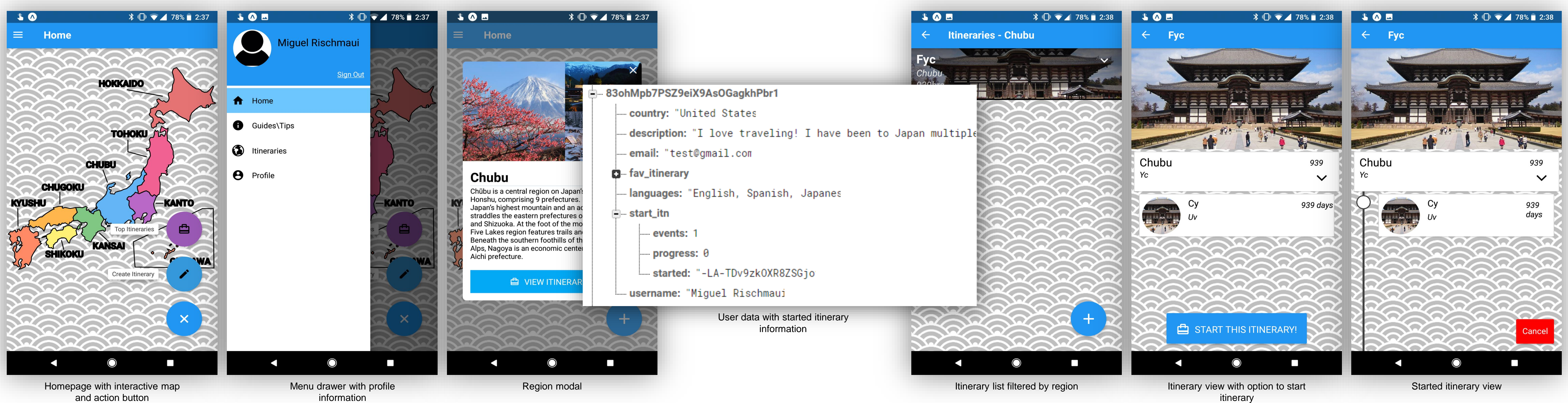
### Solution

- An app that allows users to create, share, use and search Itineraries.
- The homepage encourages the user to “explore” Japan.
- Exposure to “off the beaten path” Itineraries created by users with a western perspective.
- Simplified social system, focused on Japan.

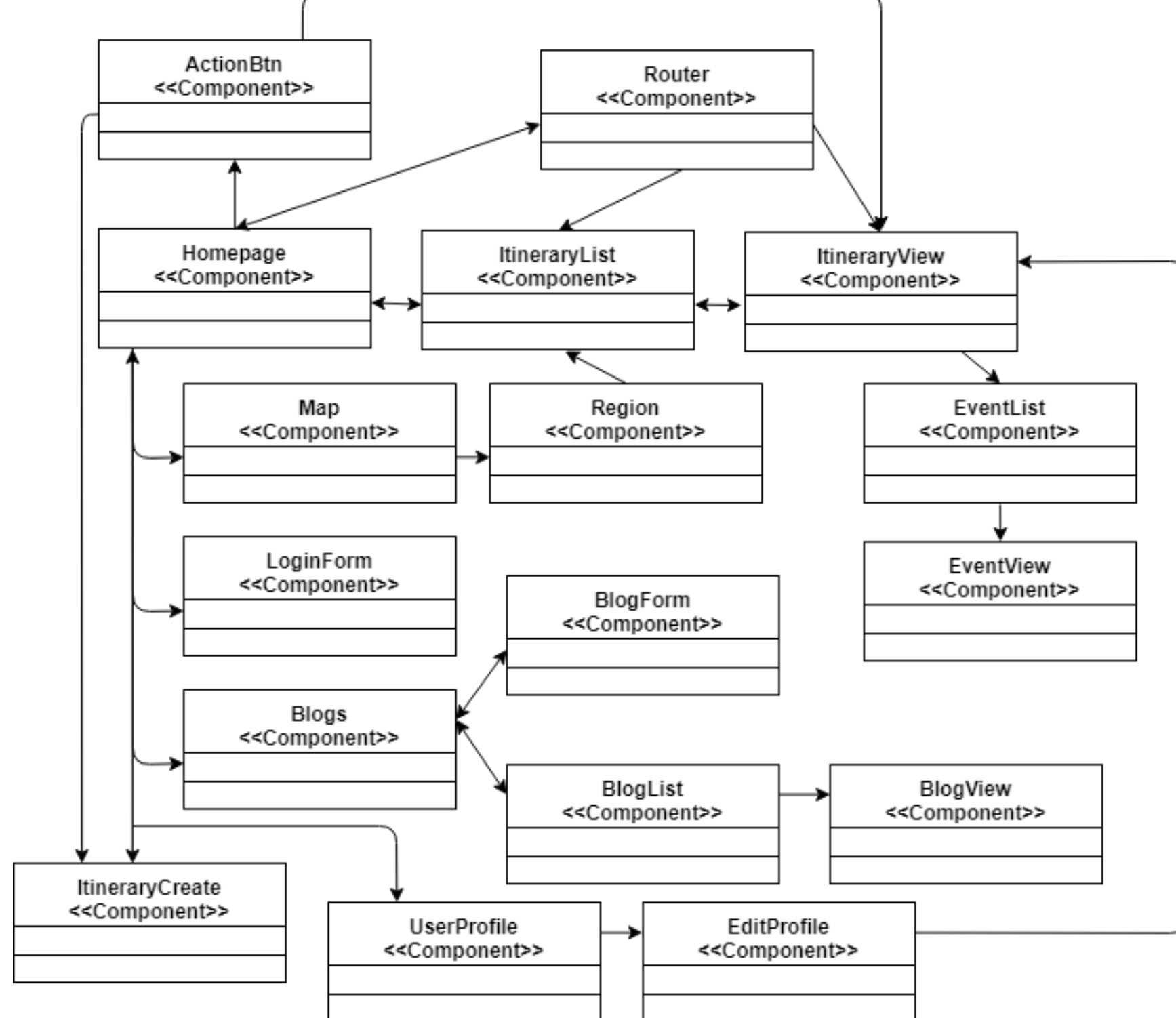
### Current System

- An ios and Android application developed with react-native
- Users can create, view and favorite(save) itineraries
- Users can start itineraries and track progress
- Users can explore regions in an interactive map of Japan
- Drawer menu for navigation

### Screenshots



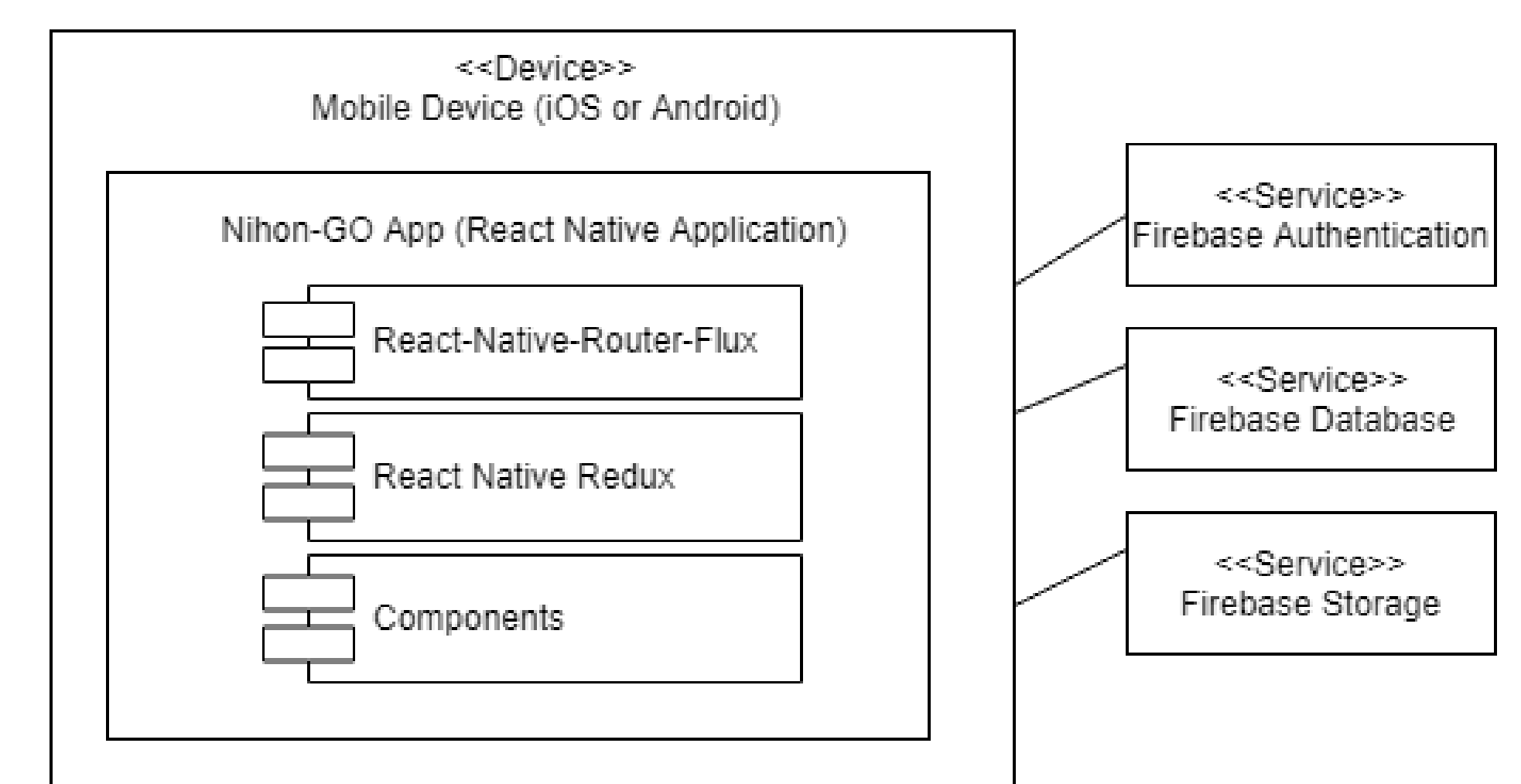
### Object Design



### Requirements

- Multi-platform mobile app with accessible and simple UX
- Custom interactive map of Japan on homepage for users to explore
- Users can create Itineraries directly from homepage
- Itineraries are public and stored in a database and can be filtered
- Users can only start 1 Itinerary at a time
- Itineraries limited to 24 hours
- Navigation is done with a drawer that lets the user access a menu.
- Profile system to save, track and create Itineraries.

### System Design



### Implementation

- React-Native application, using Redux for data flow
- Expo is used for building the app
- React-Native Elements is used for some simple components
- Firebase is used for backend (database, authentication, image storage)
- Some extra minor public modules were used (i.e. action-button)
- Map is a hand-drawn interactive SVG

### Verification

**Test Case:** ViewRegion\_sunny\_001

**Purpose:** Test interaction with homepage map, user clicks on region Tohoku

**Preconditions:** User on homepage, region data in database.

**Expected output:** Tohoku region info is displayed in a modal  
(Sample Systems test)

### Summary

- Social travel application for foreigners travelling to Japan
- Users can find, share and use experiences in the form of itineraries.
- Interactive map allows users to explore regions in Japan
- Profile system allows users to track itineraries they create, start and favorite.

### Acknowledgement

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