

# Senior Project, 2017, Fall

## Betwixt 1.0

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### Problem

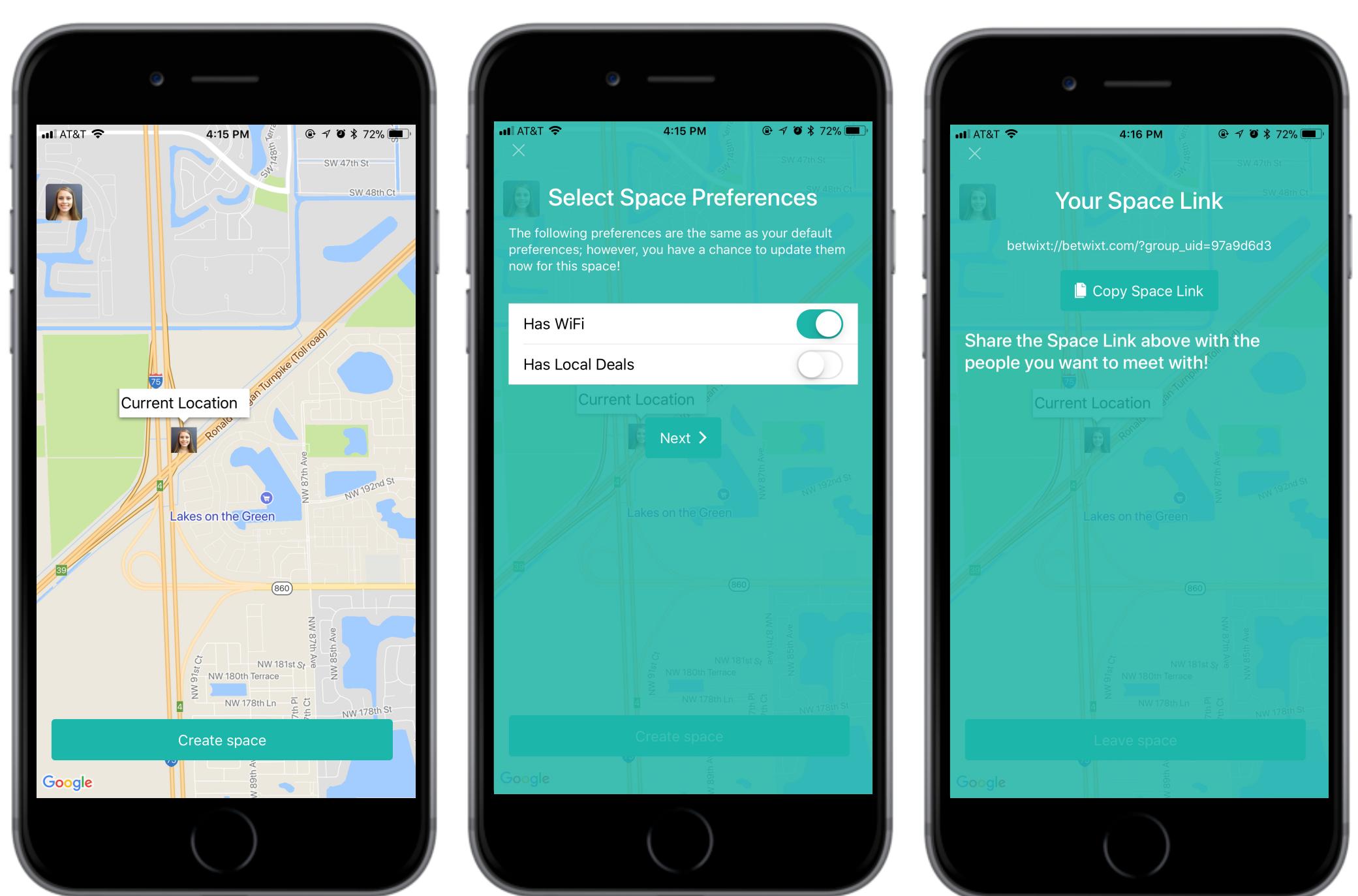
- Virtual employees (VE) & their coworkers want a place to meet up
- VEs are located across the state and country
- It's **difficult** to find a location to meet that's central

### Solution

- A **user-friendly** and **easy-to-use** mobile application
- Gives VEs a **potential location to meet up** that's central amongst their coworkers

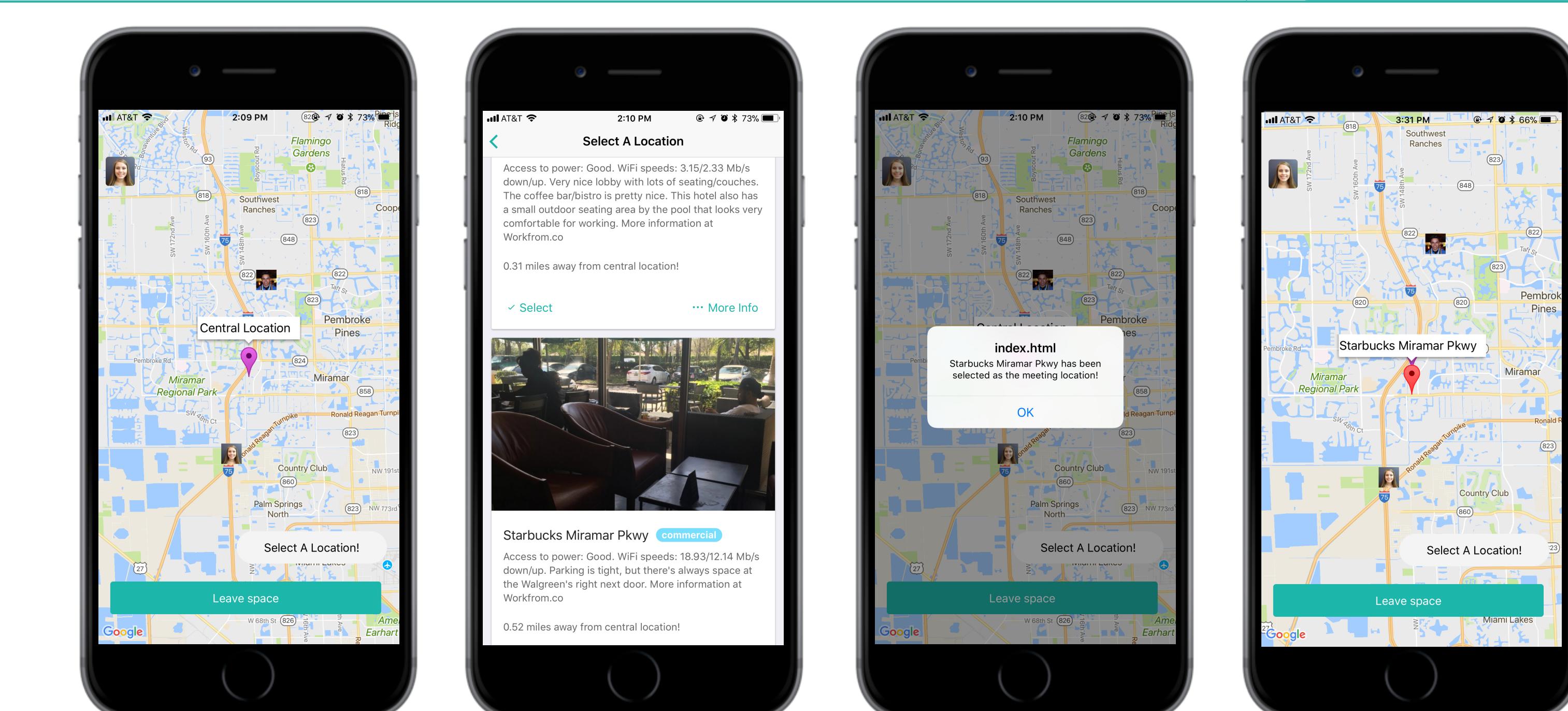
### Current System

- An **iOS and Android** mobile application
- Display the **central location** between VEs and their coworkers
- Ability to **select a location to meet up**



**Creating A Space**

Creating a space for people to join is **fast and easy**. The space link provided can be distributed to **any number of people at any time**.



**Selecting A Location**

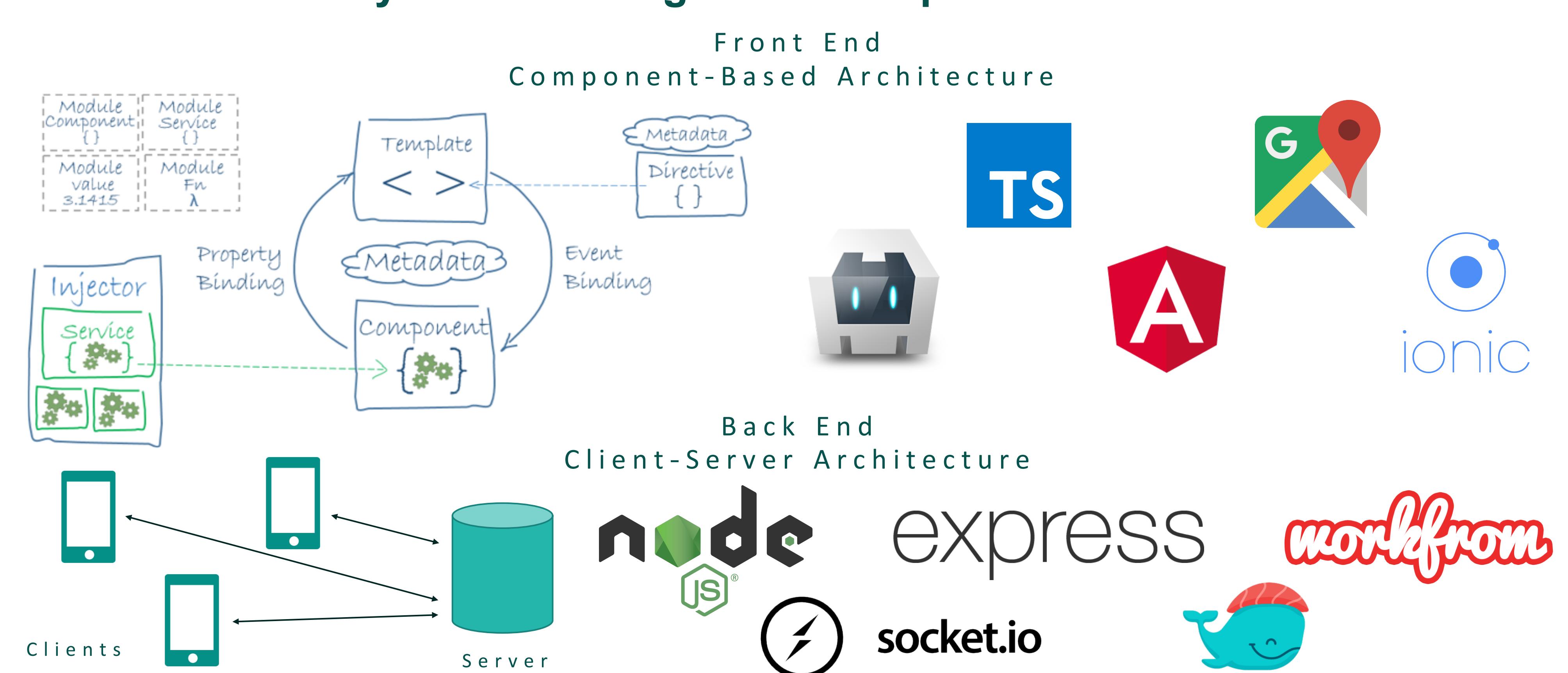
After users have joined the space and the central location has been calculated, the admin of the space can select a location to meet up. If necessary, the admin can select a new location as many times as they want.

### Requirements

- Support on iOS and Android devices.
- Ability for **multiple users to join a space**, as well as leave it.
- Calculate central location between users.
- Display the users, central location, and selected location on **Google Maps**.
- Distribute app download link to anyone using **PhoneGap**.



### System Design and Implementation

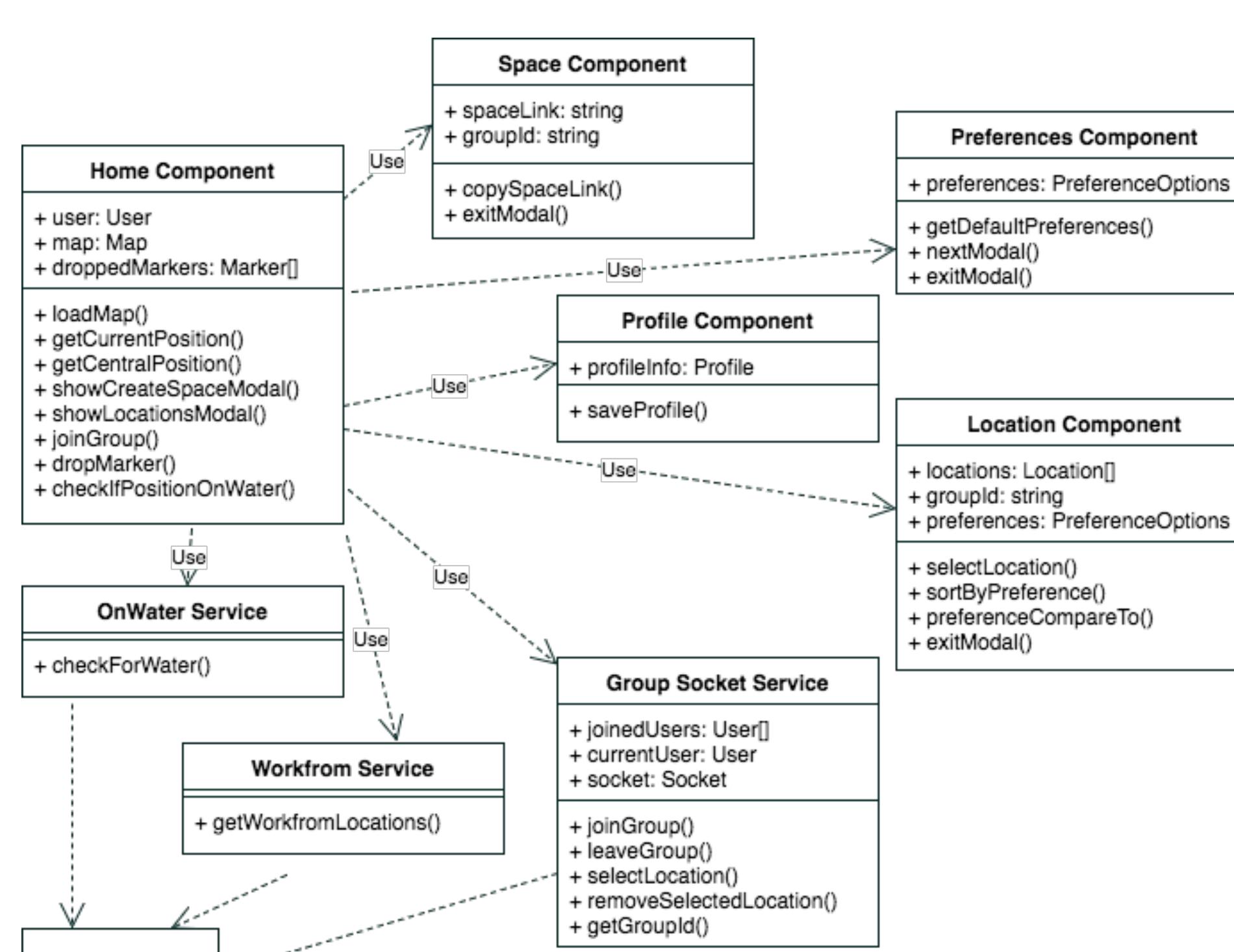


### Verification

- Manual system testing on iOS and Android devices and **Xcode** and **Android Studio** emulators.
- Postman** used to test HTTPS requests on the server.



### Object Design



### Summary

- A **functional iOS and Android mobile application** which **solves** the problem.
- VEs and their coworkers are able to **see themselves on the app's map**.
- The central location and selected location are displayed on the map.
- The space admin can **select a location** to meet up.

### Acknowledgements

The material presented in this poster is based upon the work supported by Joseph Cutrono. I am thankful for the help that I received from my team members, Alejandro Palacios and Daniel Raad.