



Senior Project, 2017, Fall

Betwixt 1.0

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Problem

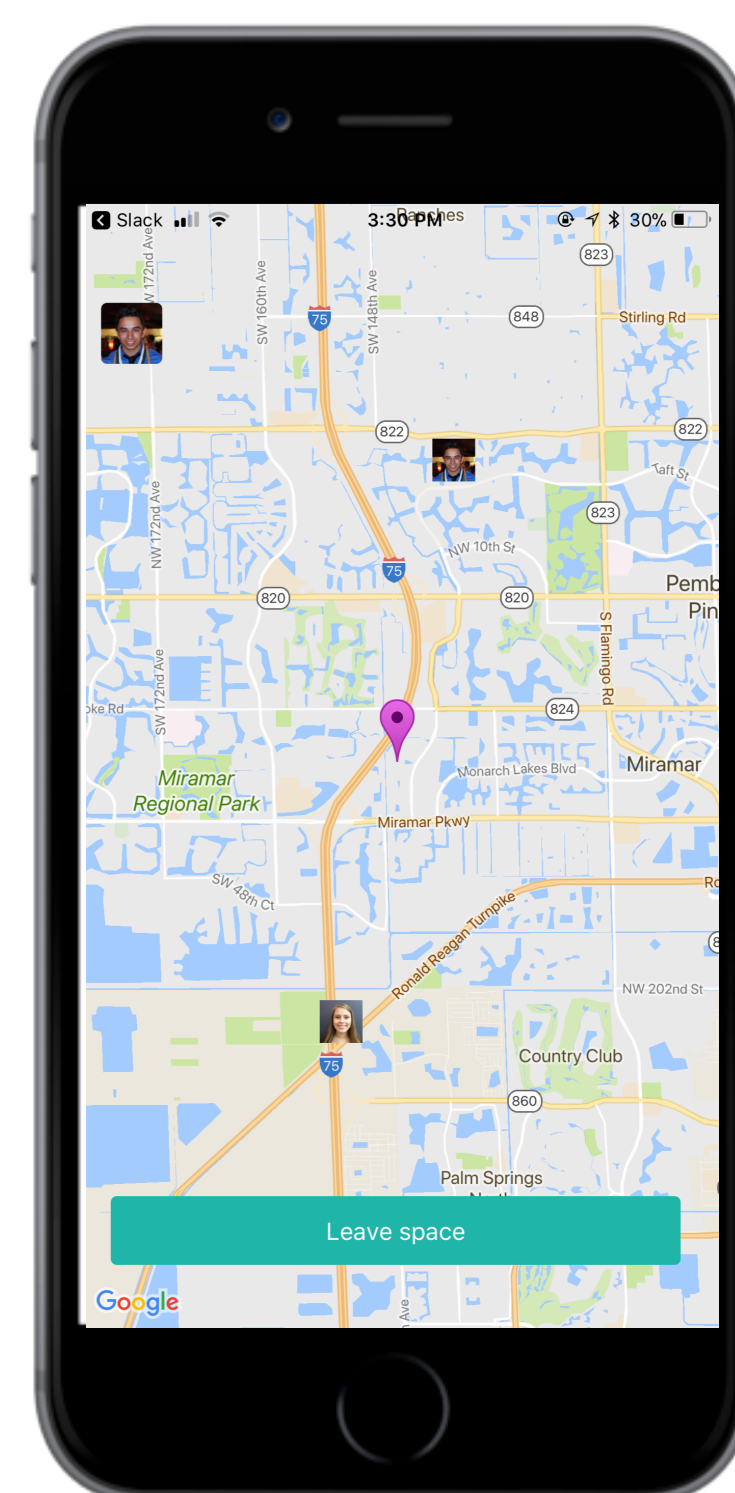
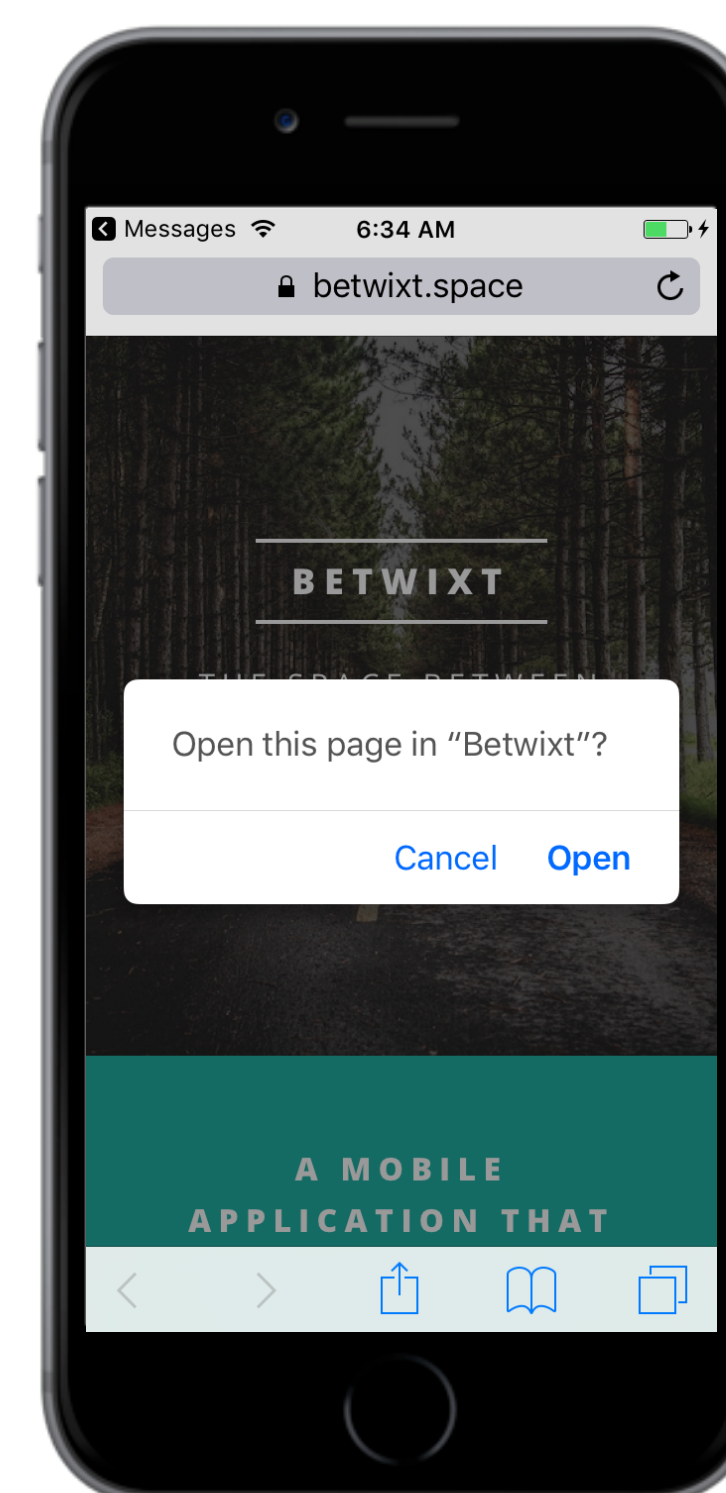
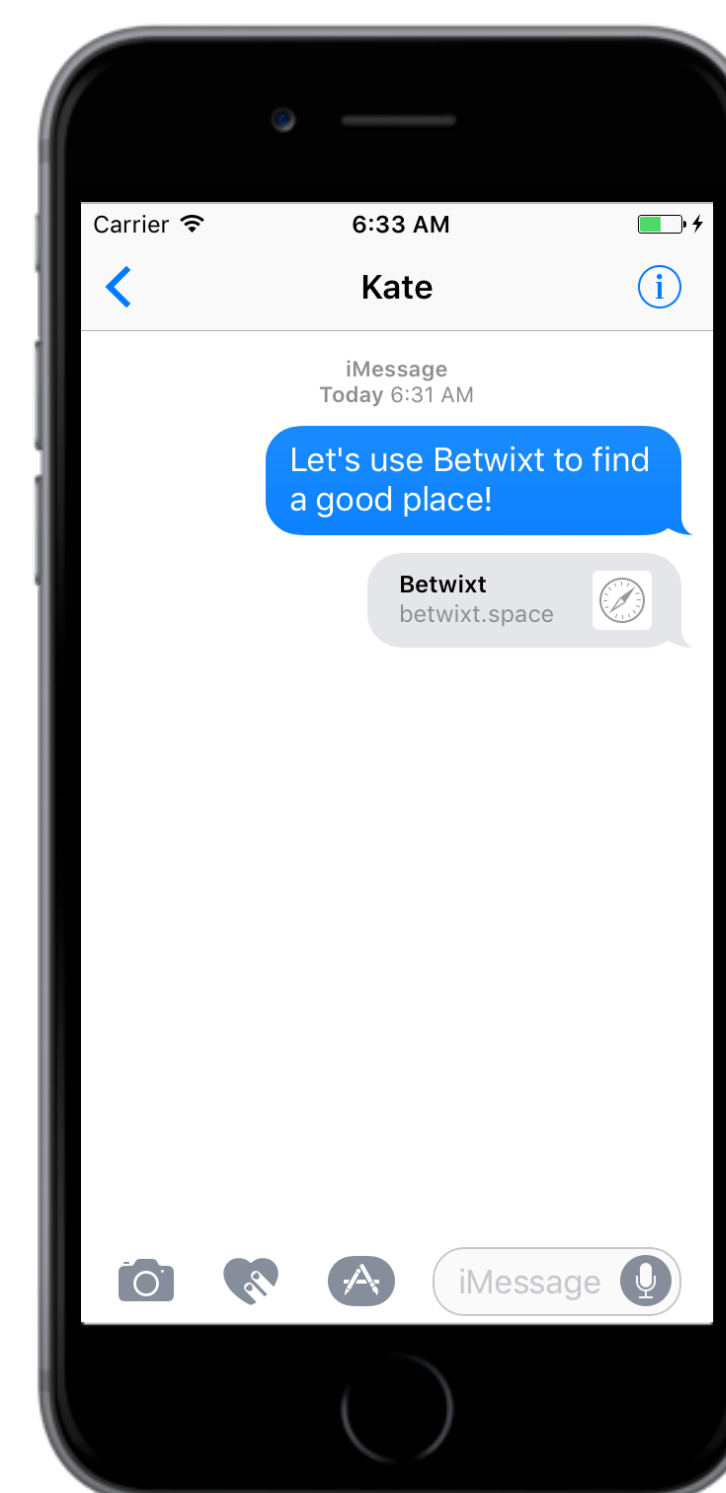
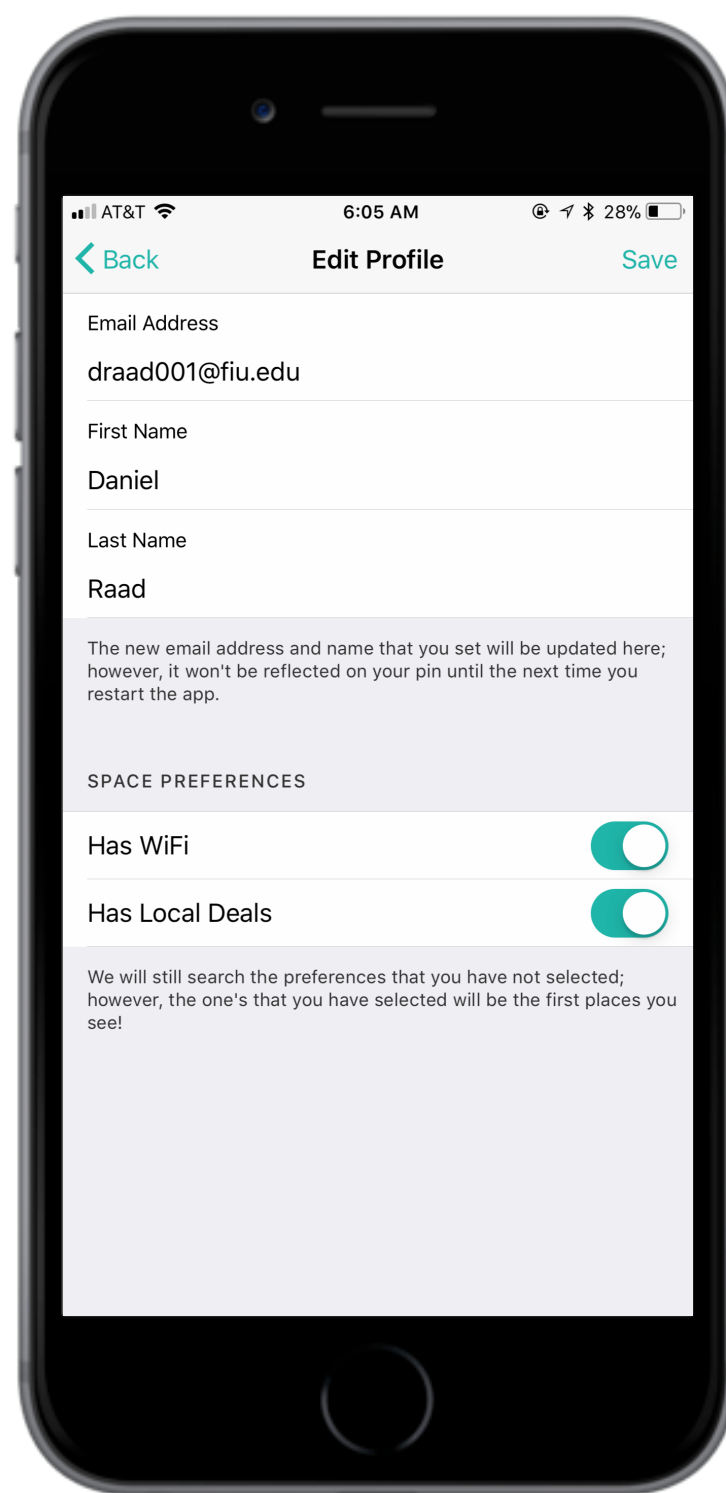
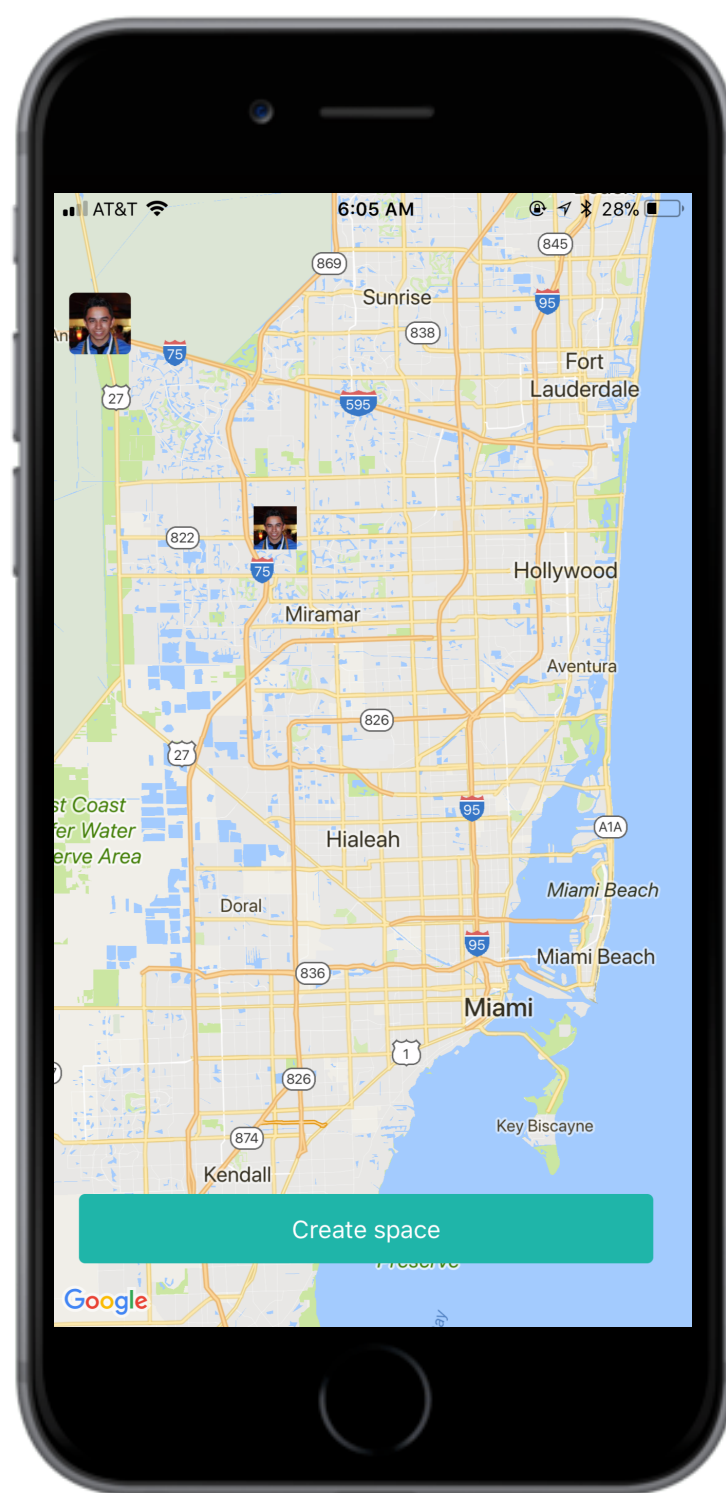
- Virtual employees (VE) want to meet up to work together in person
- It's a hassle to find a location to meet up that satisfies everyone
- VEs would like a fast and convenient way to find a public space to meet up that is fair and central to everyone

Solution

- An intuitive mobile application that handles the logistics of finding a place to meet
- The application takes all of the VEs geolocation and then allows the host to pick a meeting space from the suggested locations

Current System

- An iOS and Android application
- Host creates a space in the app and invites coworkers with a link
- A list of suggested locations is given to the host
- The host may choose a location



Modifying your profile

Clicking on your profile picture on the top-left hand side allows you to edit your profile

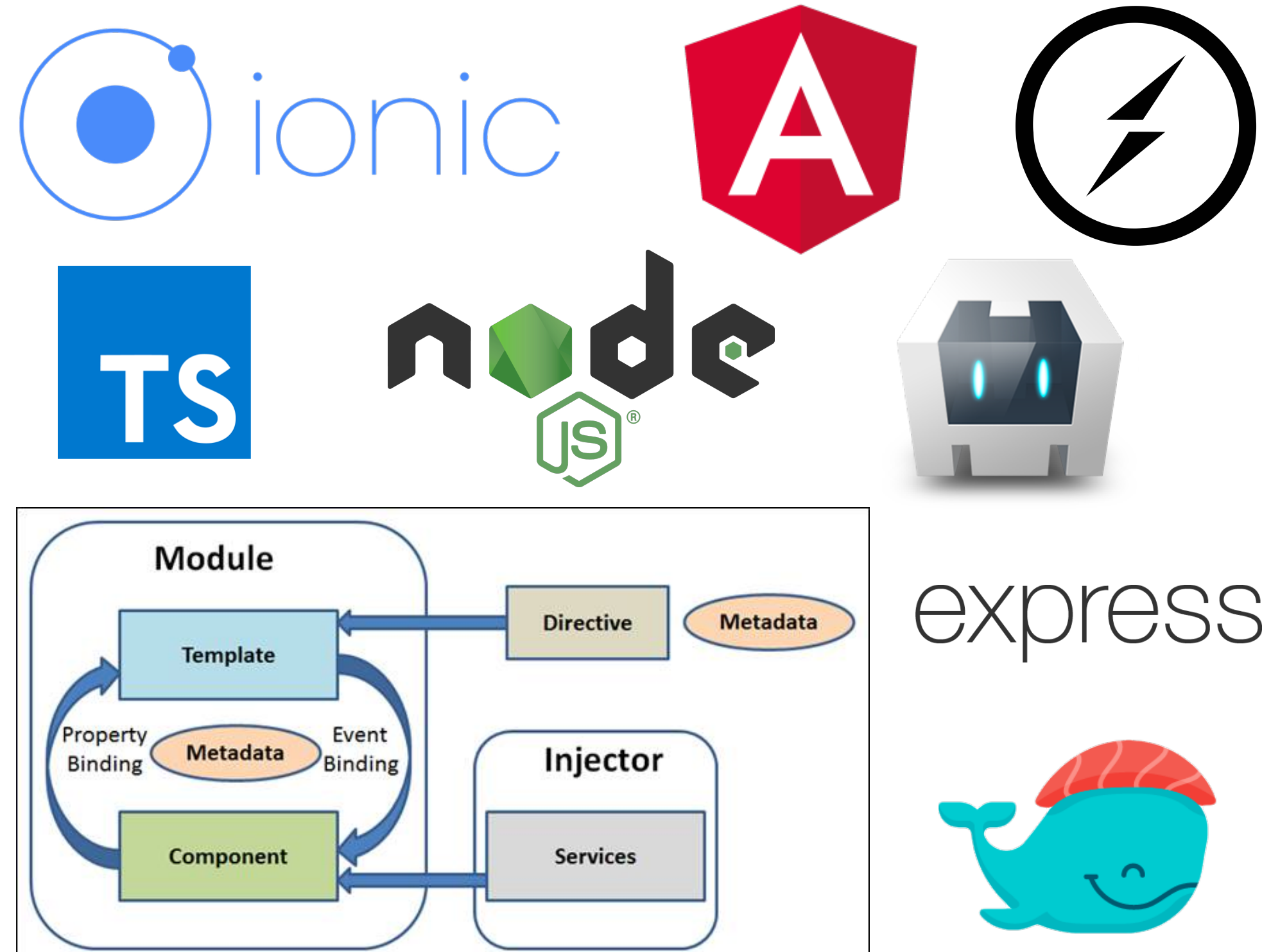
Send a link to invite coworkers

You may send a link created in the application to another VE and they may join your space

Requirements

- Mobile application for both iOS and Android devices
- Facilitates the logistics for VEs who wish to meet up to collaborate
- A space is created, others invited via link, and a central location is chosen
- Ability to set preferences to find locations
- Central location is calculated using all of the VEs geolocation
- Pins will be visible on the map for the VEs, central location, and chosen location

System Design and Implementation



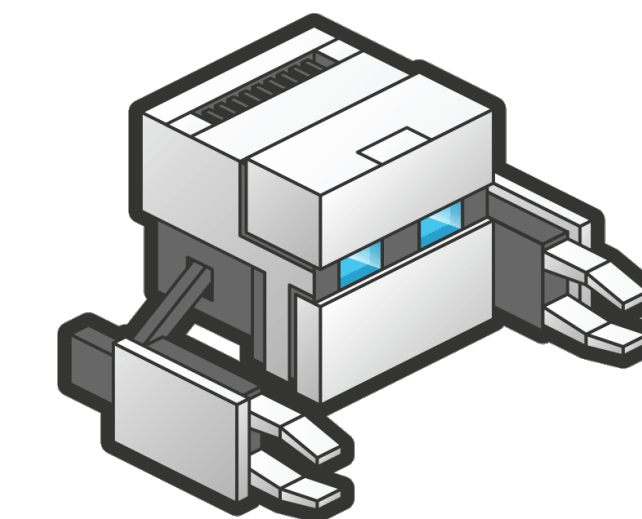
Services and APIs



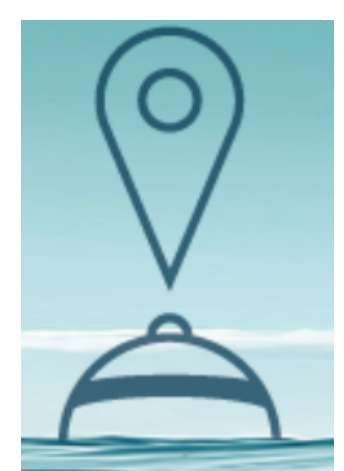
Google Maps
Displays map and pins used in the application



Workfrom.co
API used to query for locations



PhoneGap Build
Compiles hybrid apps in the cloud



Onwater.io
Determines whether a location is in water

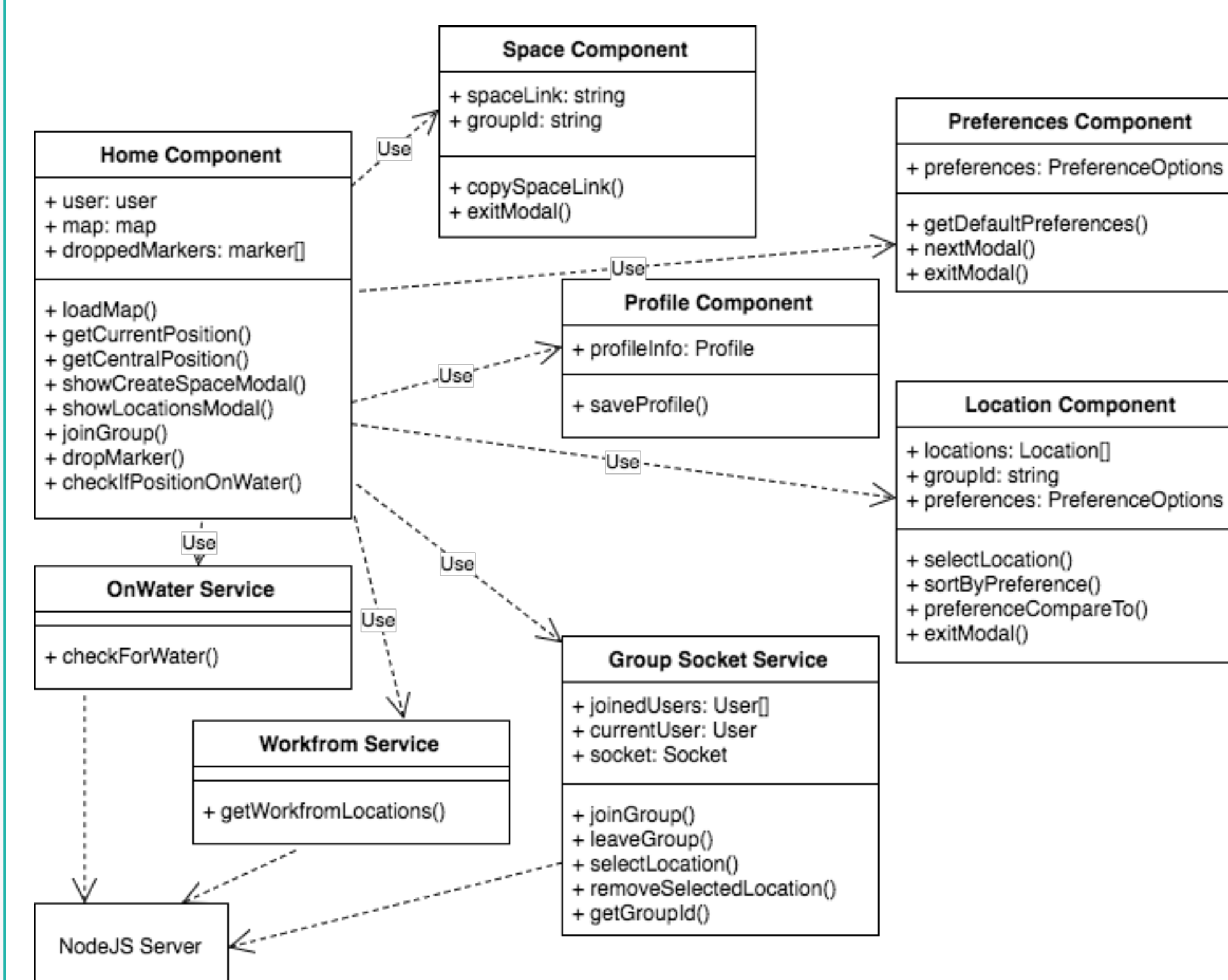
Verification

- Exploratory testing on iOS and Android using emulators and actual devices

Exploratory testing



Object Design



Summary

- A mobile application for virtual employees that facilitates meeting up
- It solves the given problem by reducing the manual planning and hassle required to coordinate with a group of people
- A host creates a space in the app, sends an invite link to coworkers, and may then select a location which is central to all employees
- The pins of all the employees, the central location, and chosen location are displayed on the map

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, Alicia Rodriguez and Alejandro Palacios.