

# Senior Project Final Presentation

## Fall 2017



# Betwixt 1.0

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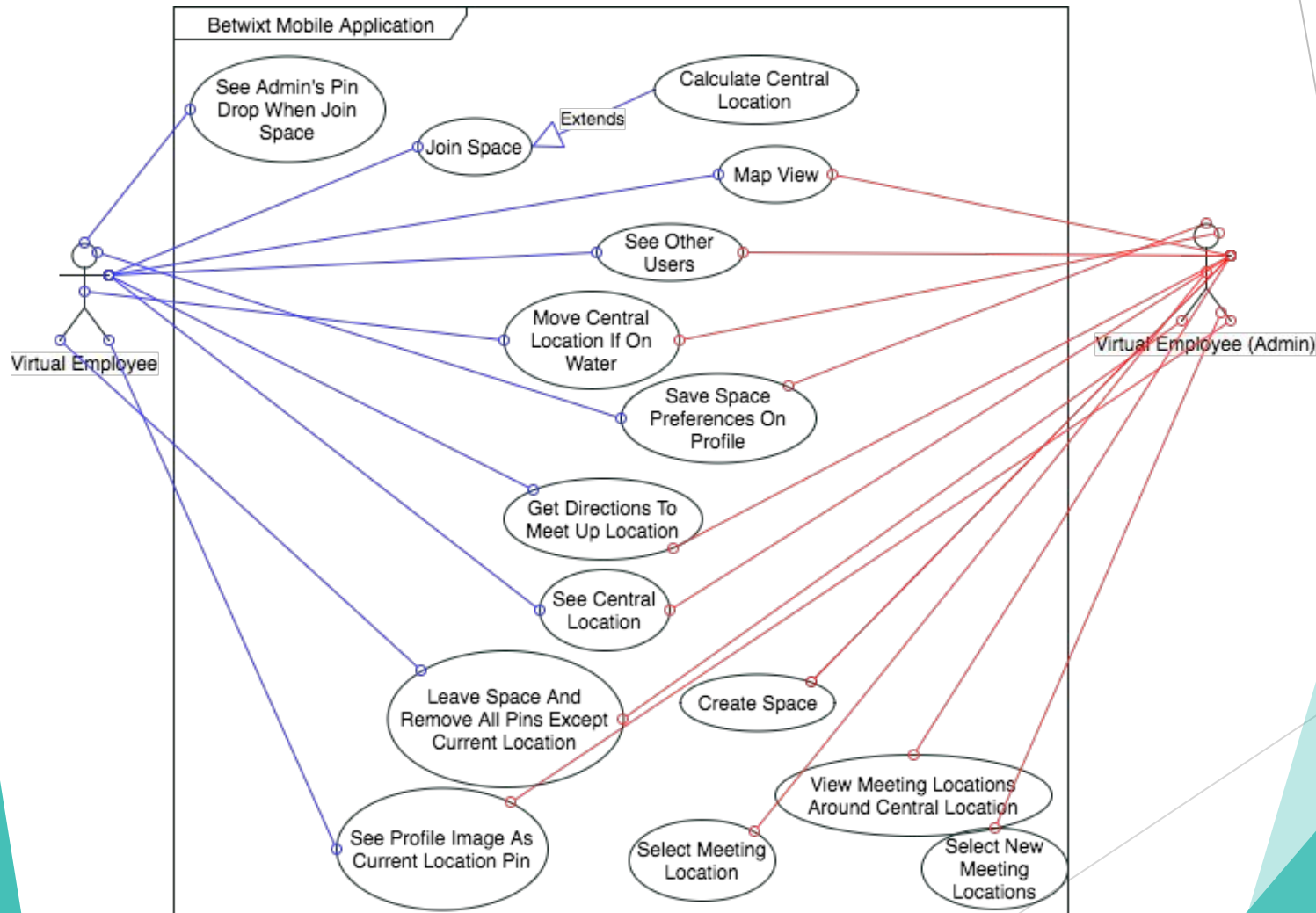
School of Computing and Information Sciences  
Florida International University

December 1<sup>st</sup>, 2017

# Problem Definition

- ▶ An iOS and Android application which calculates the central location among users and suggests locations to meet up.

# Requirements: Use Cases



# System Design: Architecture

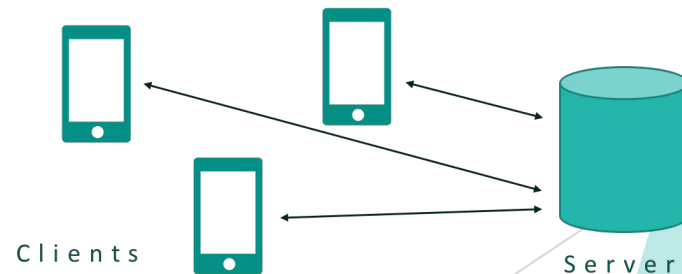
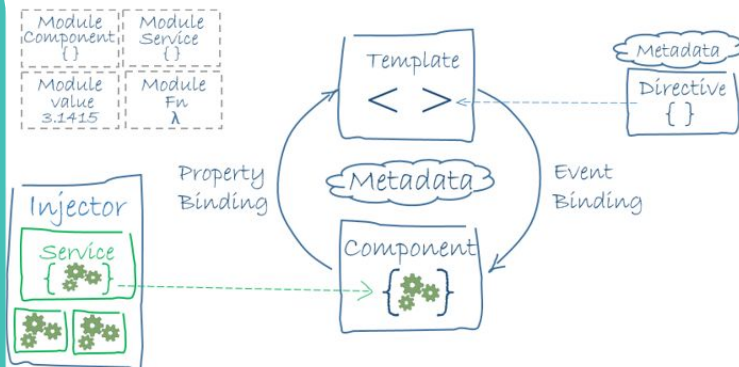
## Front End



## Back End

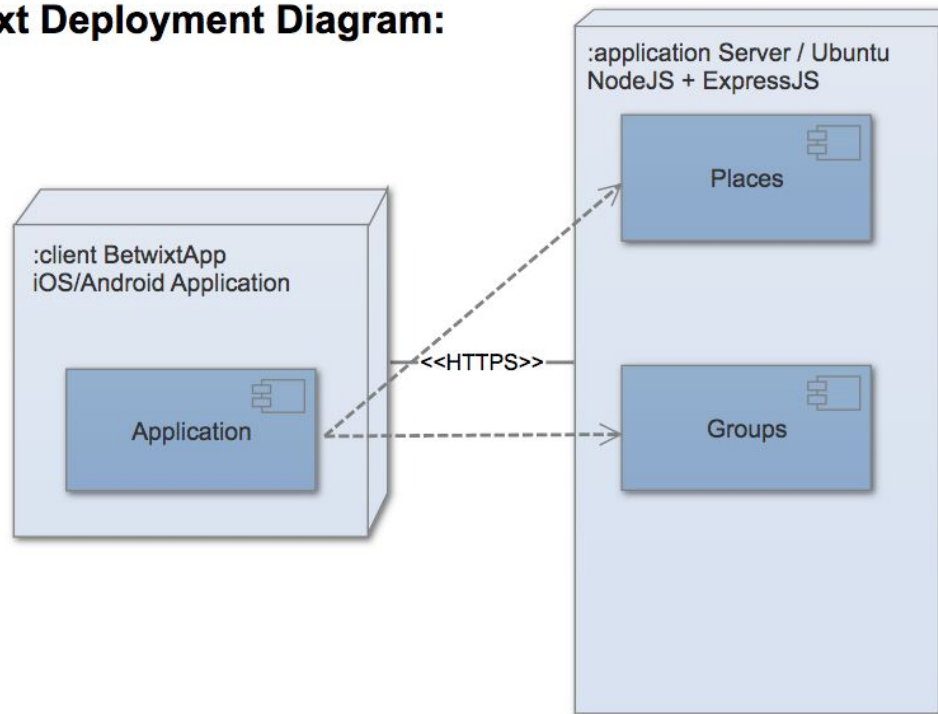


express



# System Design: Deployment

**Betwixt Deployment Diagram:**



# Requirements: User Stories

- ▶ Feature <684> Give User Locations To Meet

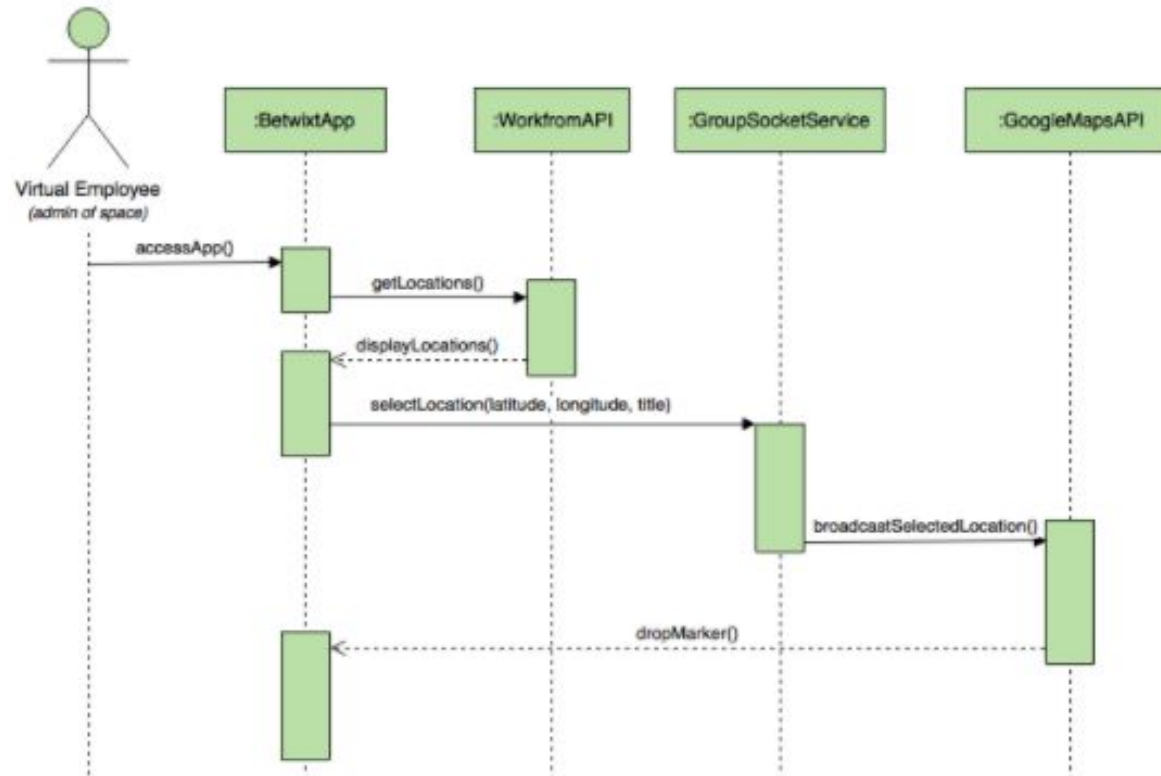
## **Description:**

As a user (admin of space), I want to see a list of suggestions for places to meet up and select that place.

## **Acceptance Criteria:**

1. Show a list of suggestions as well as how far it is from central location
2. Drop pin on the selected suggestion (the admin can only pick the suggestion)

# Requirements: Sequence Diagrams



**Assumption:**

The virtual employee has already created the space and the map has already been loaded

# Requirements: User Stories

- Feature <677> Join a Group

## **Description:**

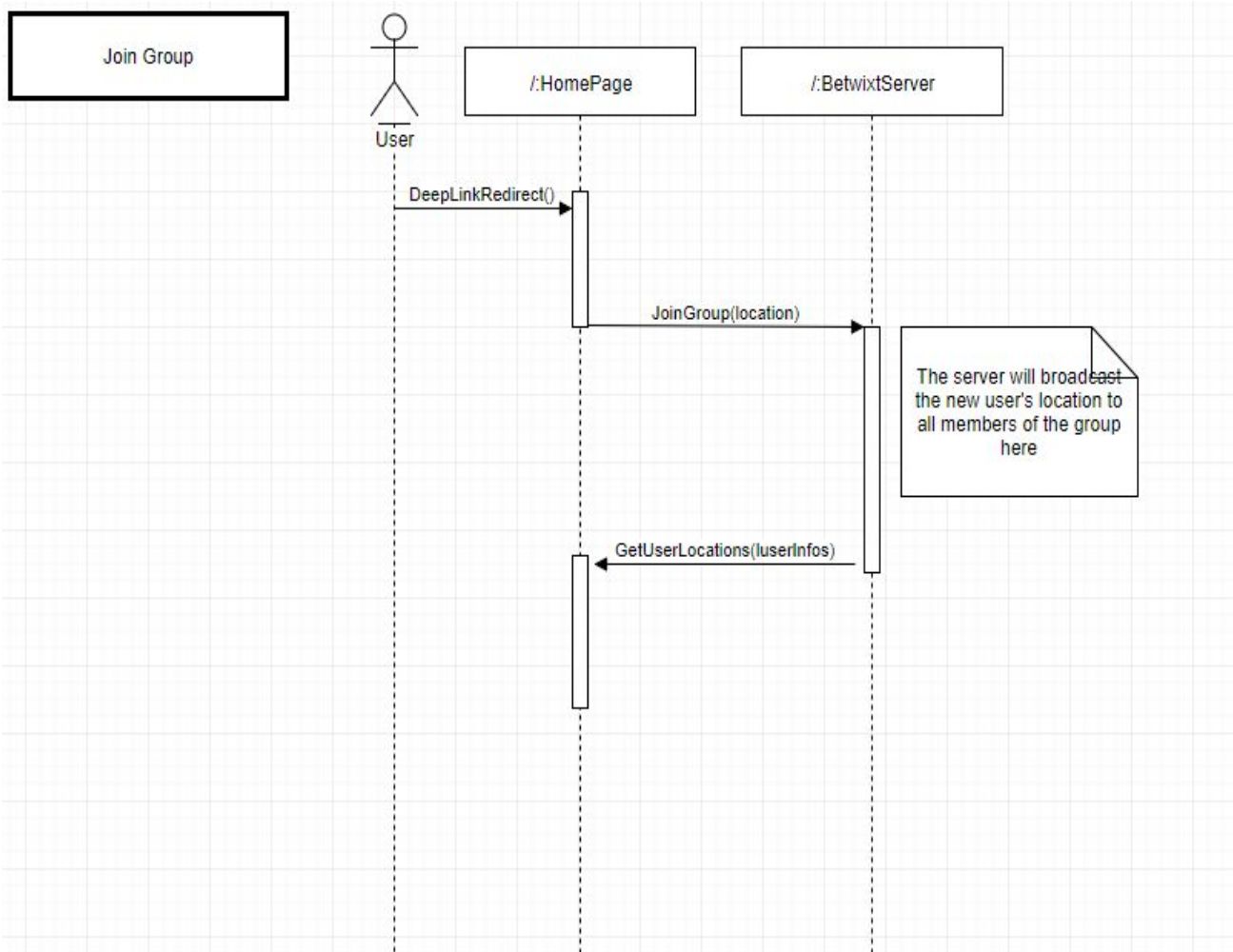
As a User I would like to be able to join a group so that other members can see my location and I could see theirs.

## **Acceptance Criteria:**

1. When I click on a deep link, the app will open and will show other group member's locations as pins on the map.



# Requirements: Sequence Diagrams



# Requirements: User Stories

- ▶ Feature <686> Detect if central location is in water

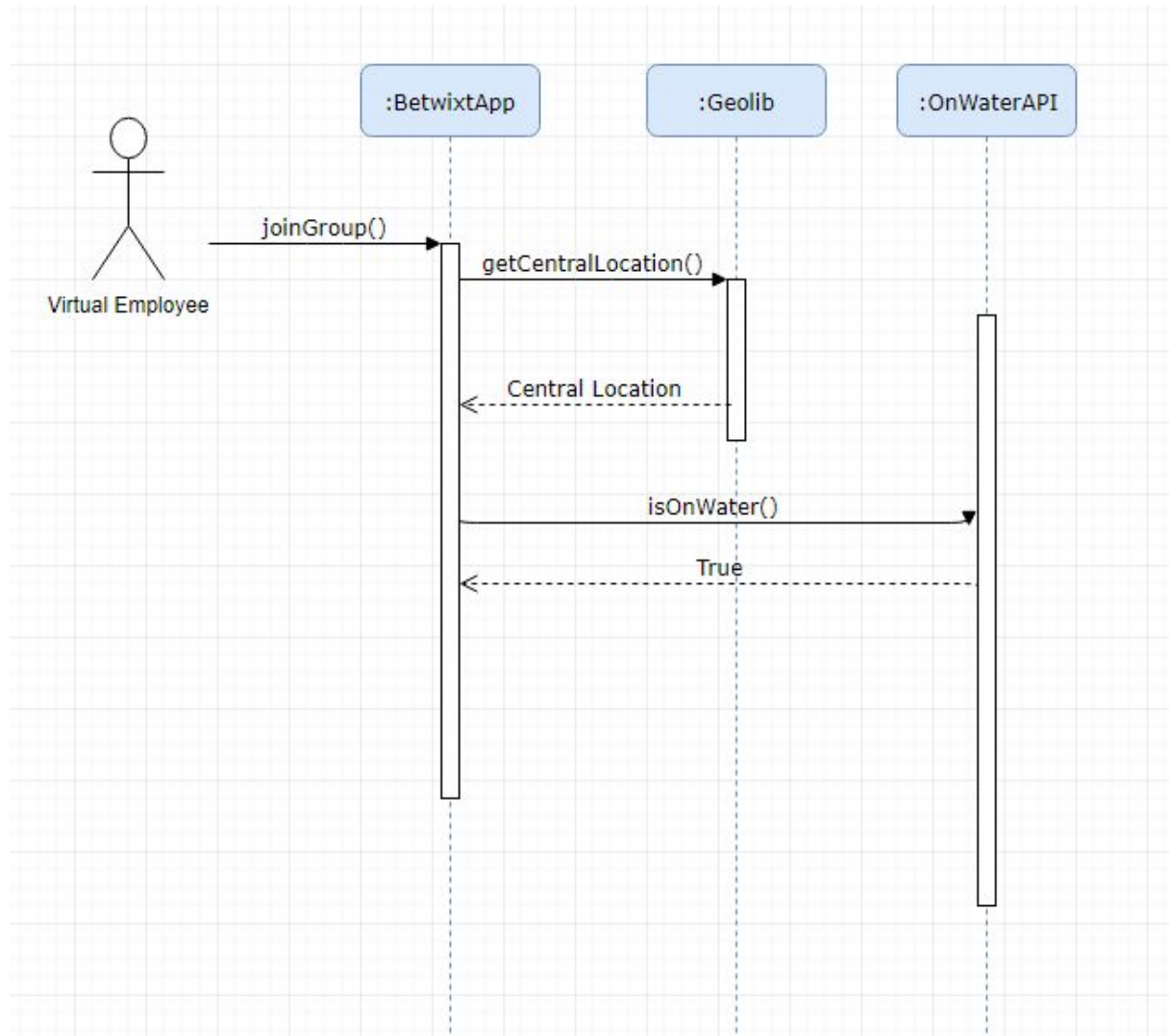
## **Description:**

As a User I would like to be able to move the central location when it is calculated to be in the ocean so that I may pick a reasonable location to meet up in.

## **Acceptance Criteria:**

1. Detect that the central location is in water
2. Inform the user
3. Allow the user to move the central location in this case

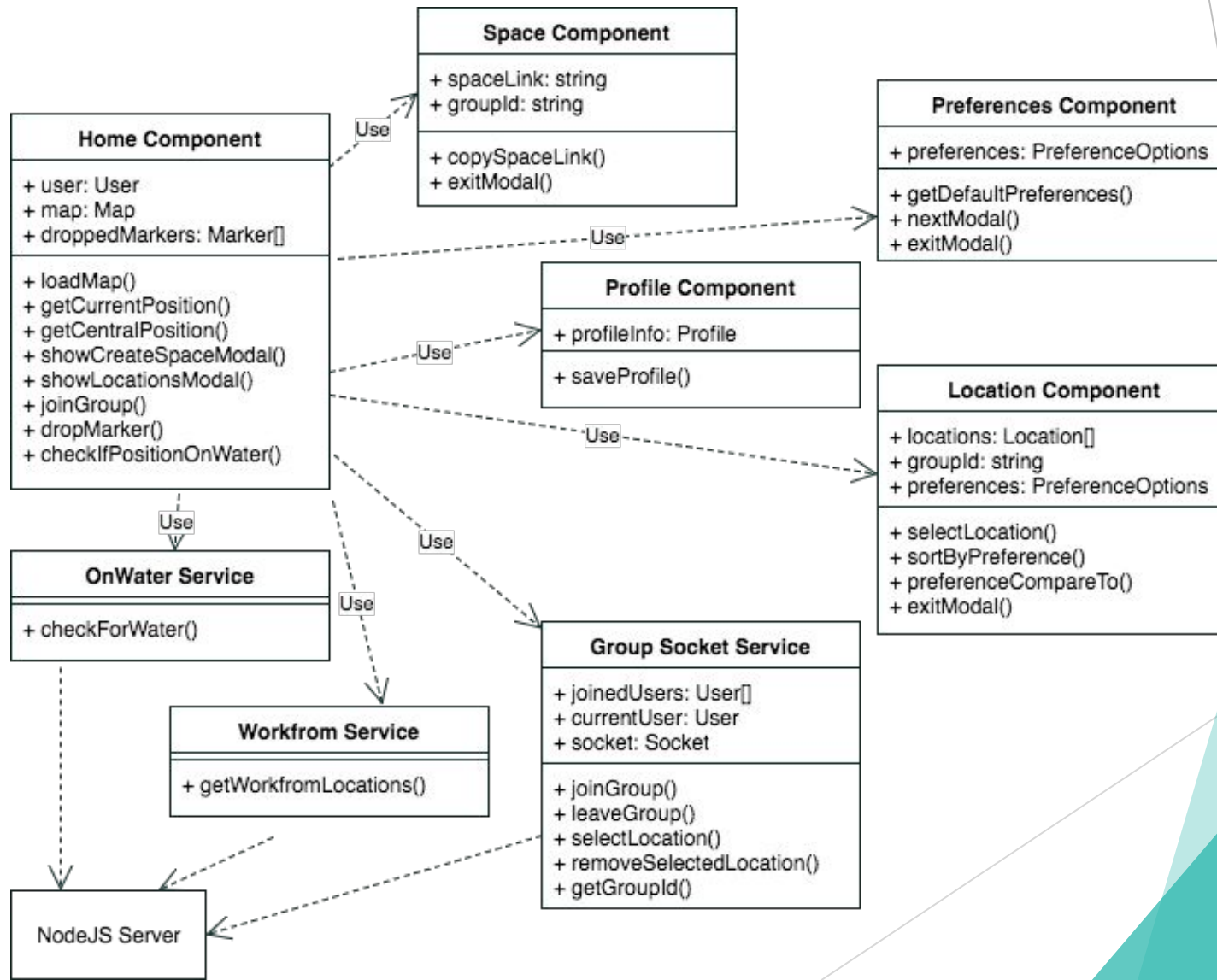
# Requirements: Sequence Diagrams



# Test Cases

Test ID	Precondition	Description	Expected Results	Actual Results	Pass/Fail
feature_684_1	The user has distributed the space link to others and they have joined	Select a location and drop a red pin on all devices that are connected to that space with the selected location	See the selected location pin on the map	The pin with the selected location was dropped on the map and everyone can see it	Pass
Feature_686_1	The central location is calculated and it is on water	Central location is movable if it is calculated to be on water	The central location pin becomes movable and can be dragged onto land.	The central location became movable and was able to be moved onto land.	Pass

# Class Diagram



# Summary

Betwixt 1.0 was built under an **agile development environment**, using Scrum. Daily Scrum meetings were held as well as Scrum Ceremonies, such as Retro, Review, and Planning.

Betwixt 1.0 is an **iOS and Android application** which calculates the central location among users and suggests a location to meet up, **tailored to Virtual Employees**.

## Contact Information

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