



# Toogether: A better app for organizing groups on the move

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Project Client: Made With Math

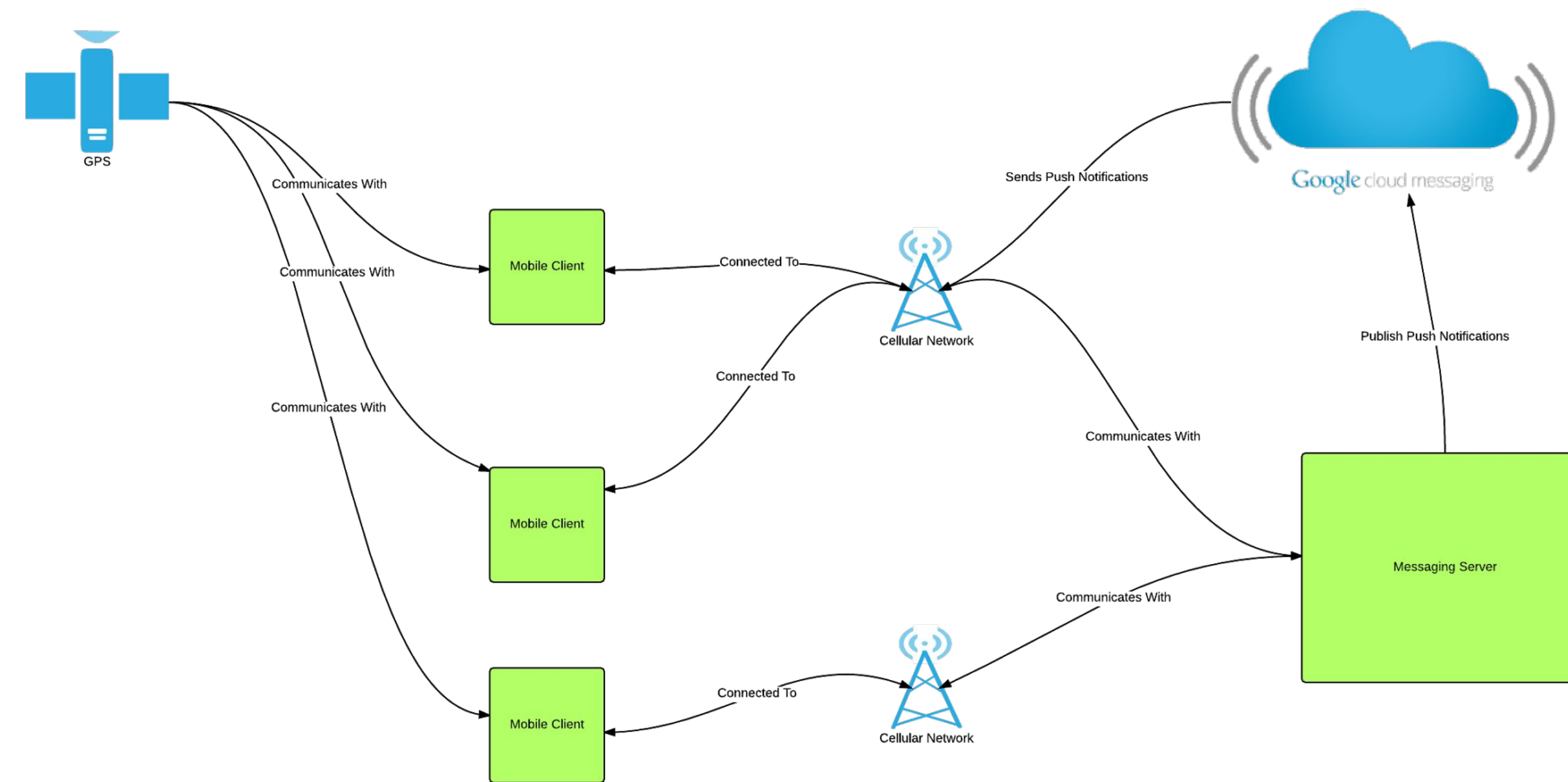
## Organizing active groups is hard...

Active groups are common in modern life; from workout groups, to convention goers, to your friends at a music festival. Such groups are particularly difficult to coordinate because...

- You will have to call everyone individually to update them on the situation.
- You will have no idea where they are.
- And Using other group app's like Facebook or Hangouts to create a group is a permanent solution to a temporary problem.

But really, what else can you do? Well, you could try using **Toogether**.

## Architecture



- Web Sockets used for message communication
- Messages passed through central messaging server via cellular networks
- Location data gathered from GPS and cell tower positions
- Google Cloud Messaging used to save power when the device screen is turned off

## Features

- Real time GPS location for all group members
- Text chat capabilities
- Proximity-based invitation system with support for email and text messaging

## Technologies

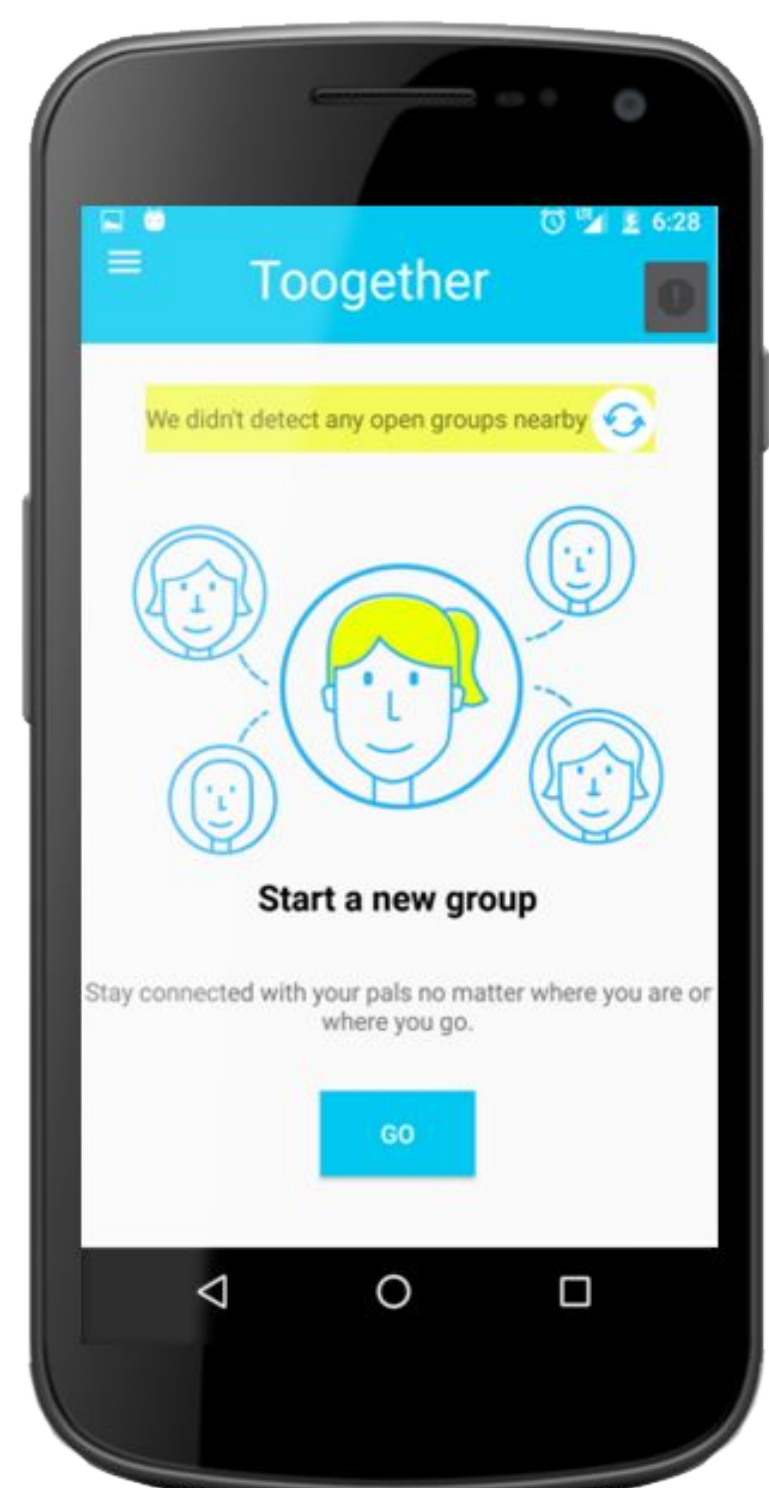
- node.js** - Node.JS - JavaScript platform driving central messaging server
- mongoDB** - MongoDB - Document driven data store
- FAYE** - Faye - Framework for publish/subscribe chat channels over WebSockets
- Google Maps** - Display for gps locations.
- Google Cloud Messaging** - Push notification provider
- express** - Express - Web API platform for Node.JS

## Future Work

This is just an early beta of the application used as a viability test. Moving forward things planned to be included in the app are...

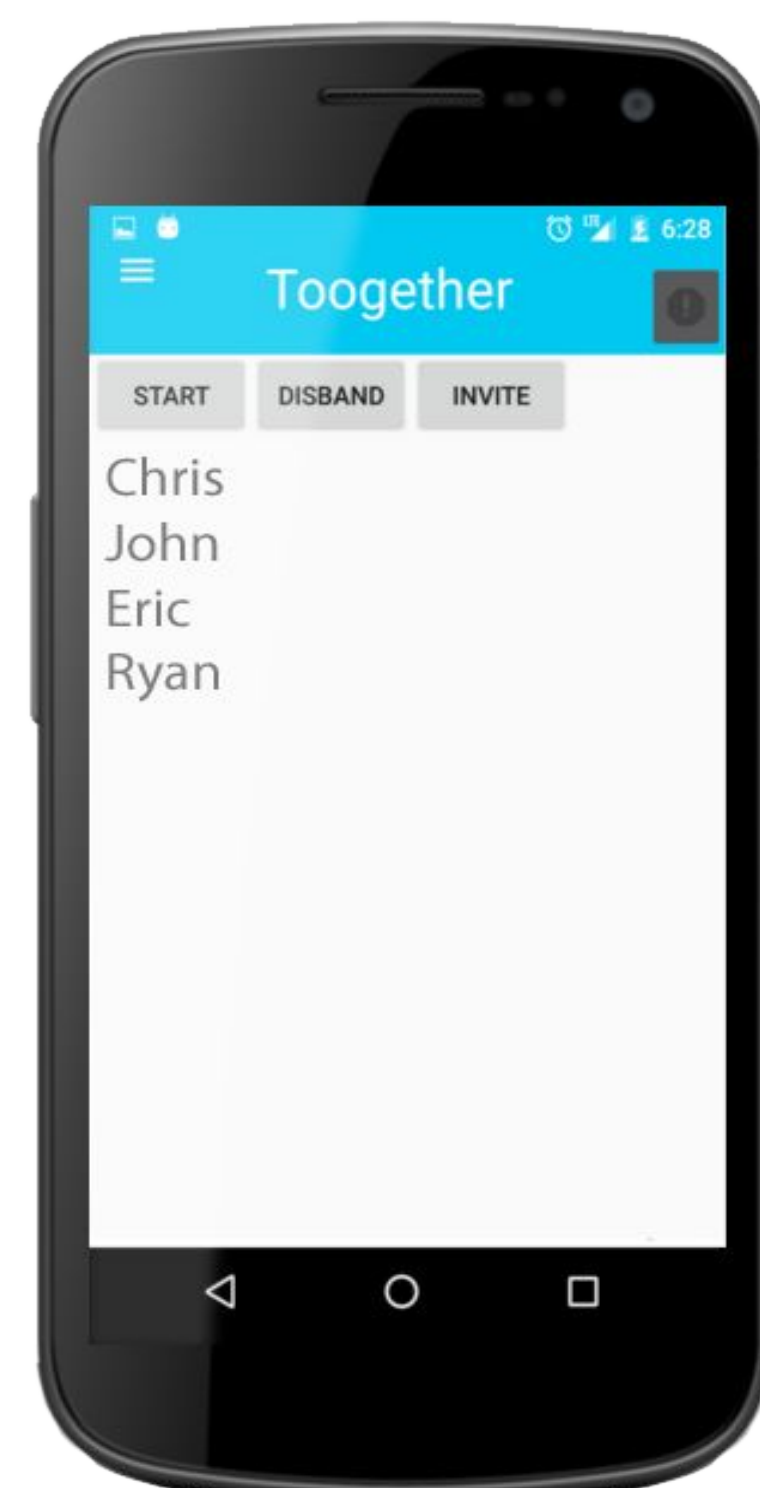
- iOS version - Toogether architecture design makes it easy!
- Support for photos in group chat rooms
- Private chat between two members of a group

## Sample Scenario: An impromptu day of skiing with friends...



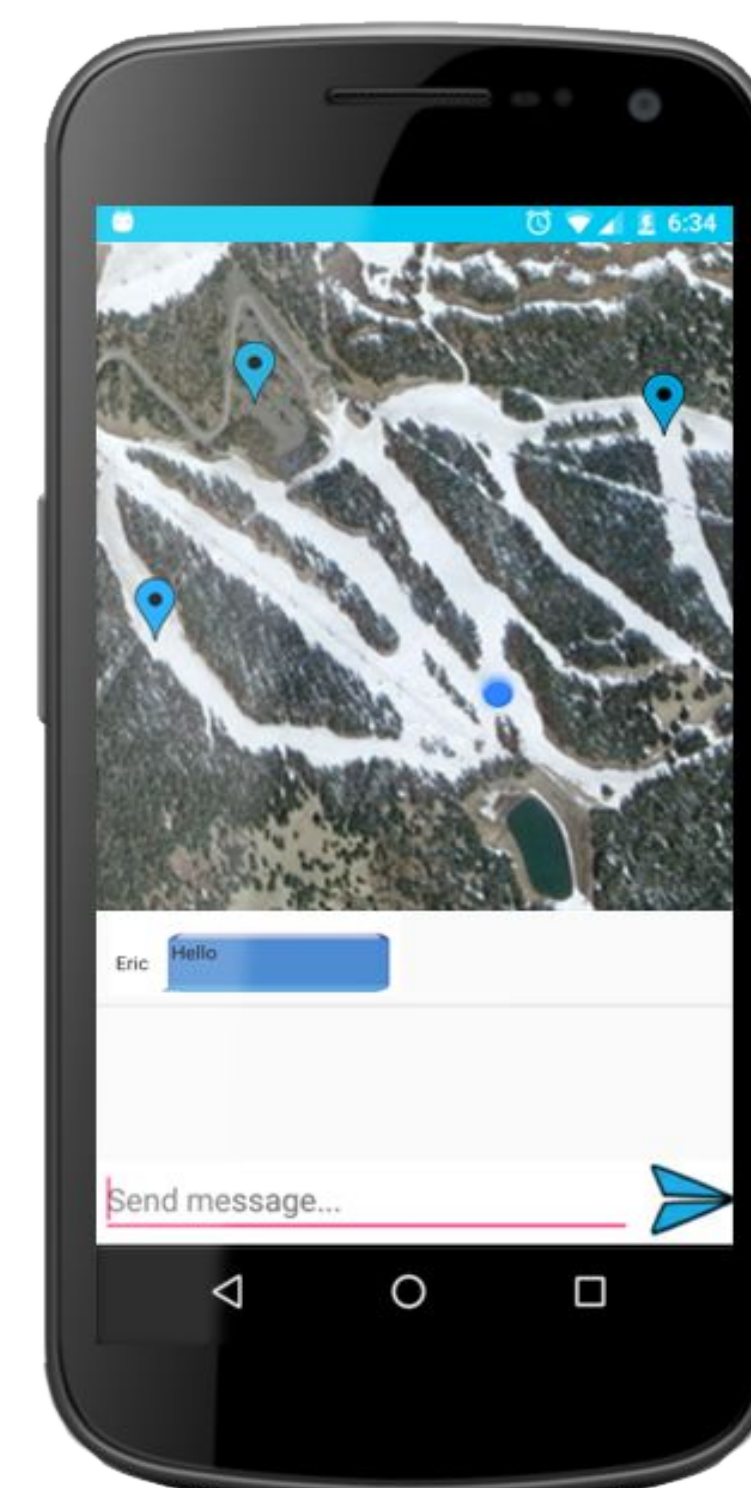
You and some friends decide to make a day of shredding the slopes. So you open up the app.

- All nearby public groups that you may join are displayed here
- You can also choose to make a new group
- If you are already in a group the application remembers and skips this page



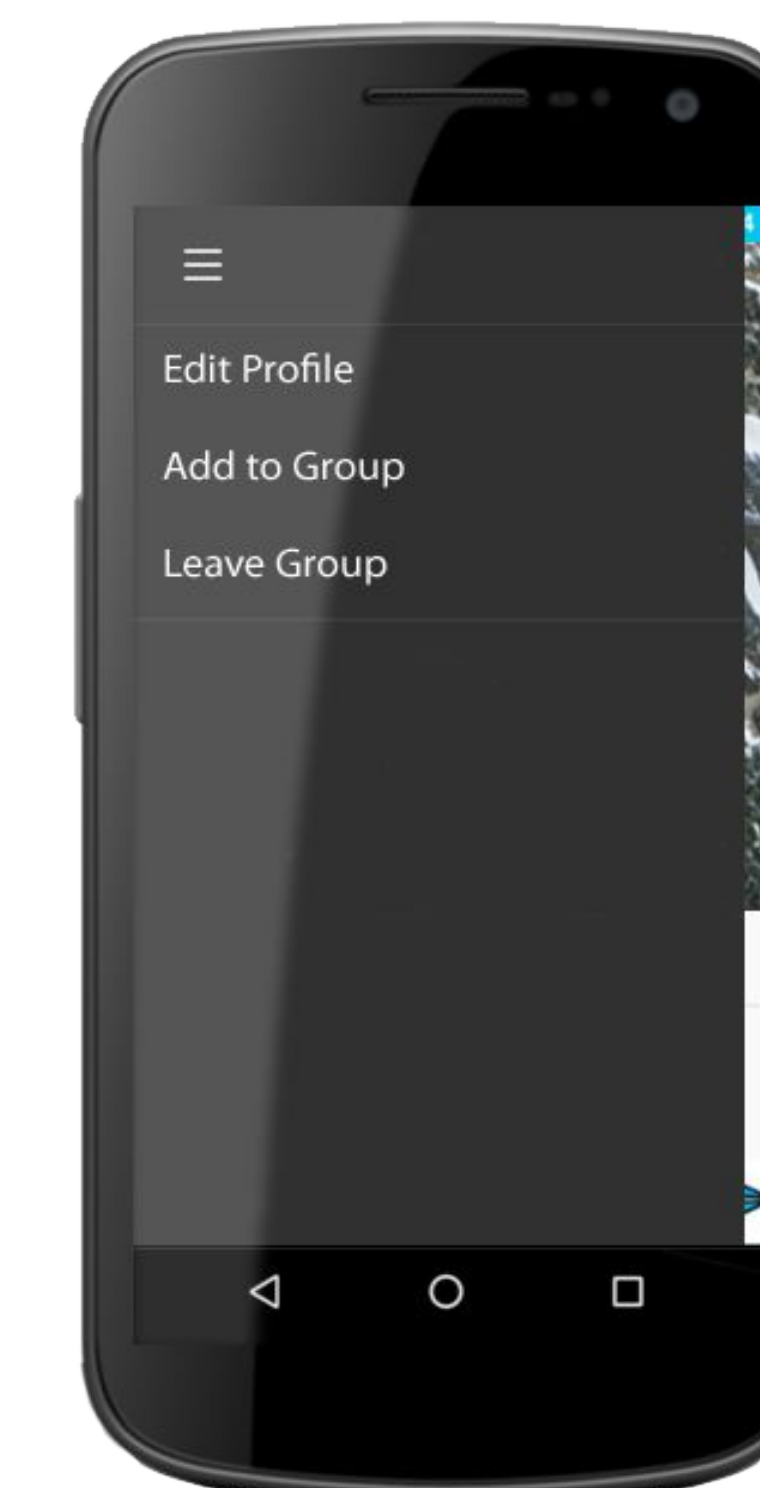
With your group created you arrive at the staging area and invite them.

- Group members can join by receiving an invite from the group owner
- Members can also be invited by clicking on a group from the previous screen



Group literally in hand, you are now ready to hit the slopes!

- The group chat automatically updates with messages from other group members
- The gps location of all group members is displayed on the map



The day's activities finished you leave the group, ready to make a new one should the occasion arise.

- Once all members have left a group, the group is deleted.