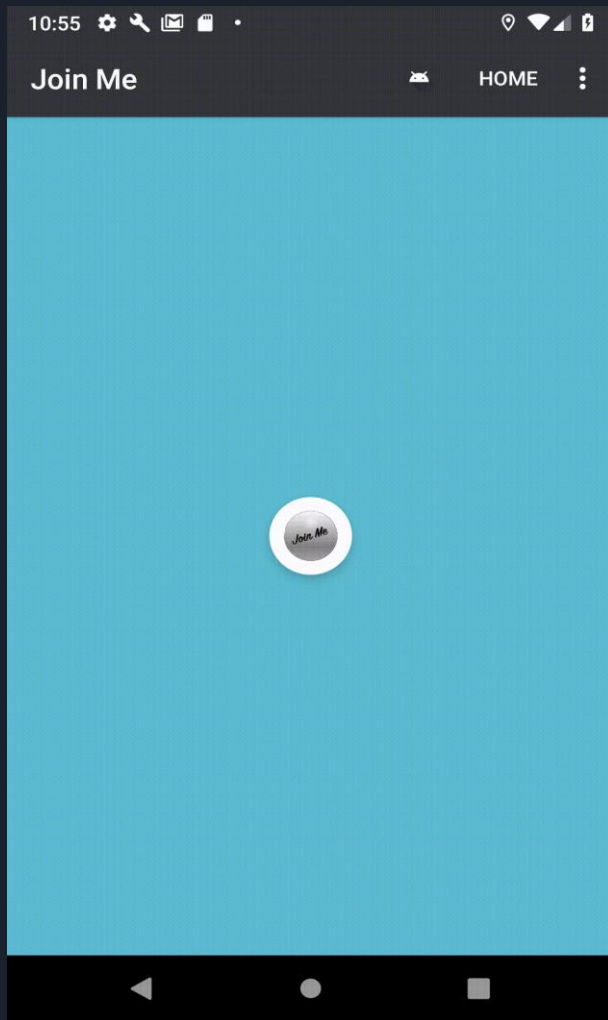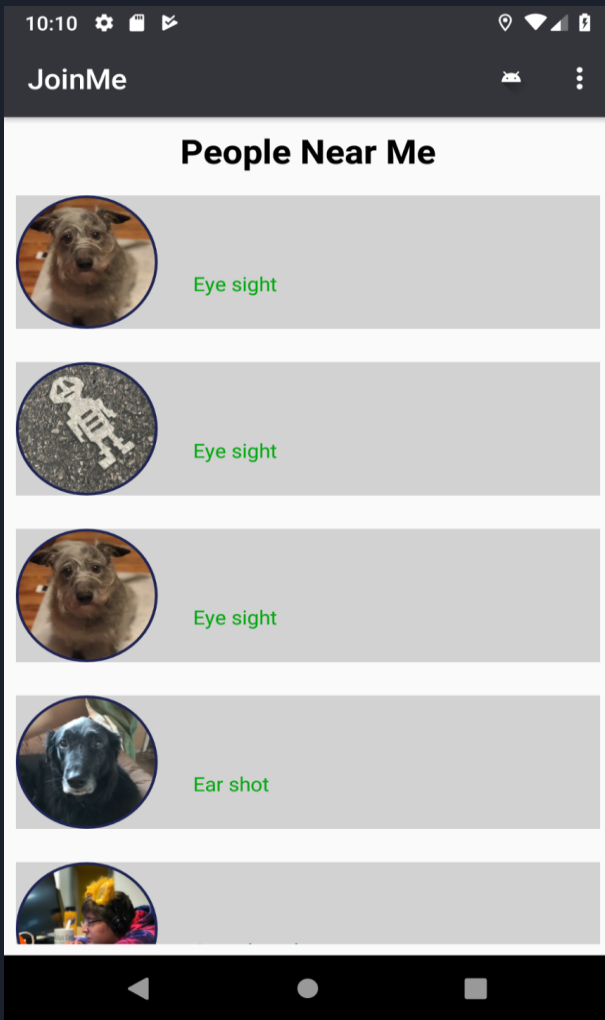90°

https://projectlocus.github.io

Join Me!

Alex Rael, Dina Rabanal, Brian Bleck
12.7.2018

Our wonderful home screen, it's great.

Thank You Ramotion!
https://github.com/Ramotion

See who's near you.

Create an invitation for someone!
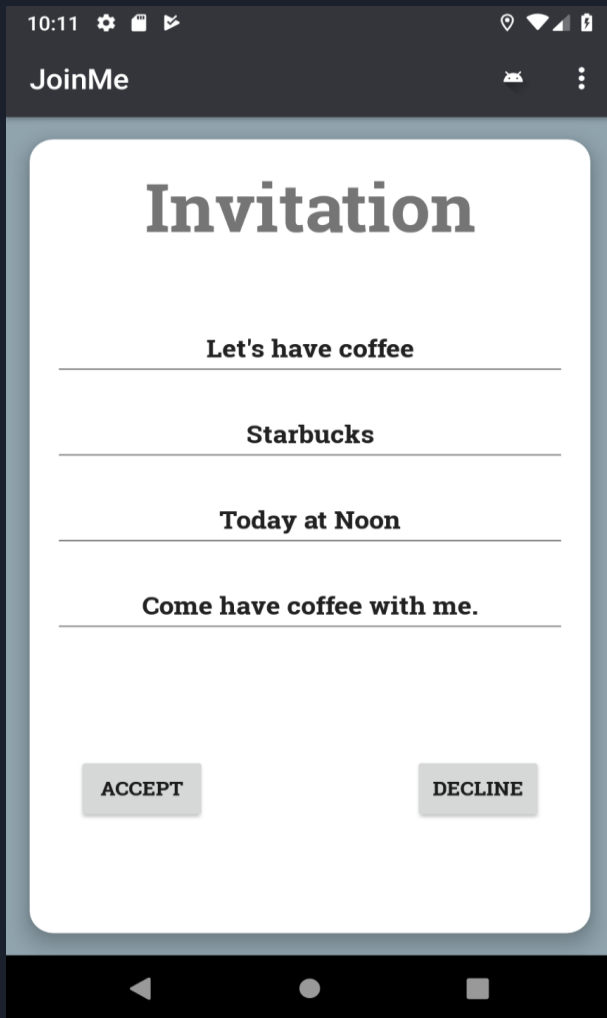
Accept an invitation from someone!
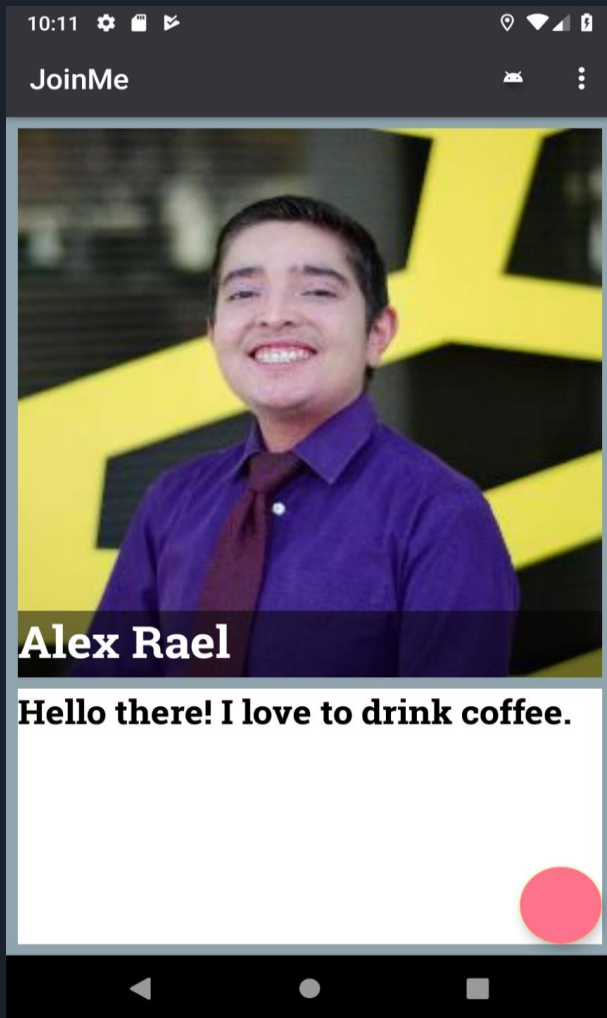
Share your profile to the world!

A little about our backend

With Brian, our backend architect.
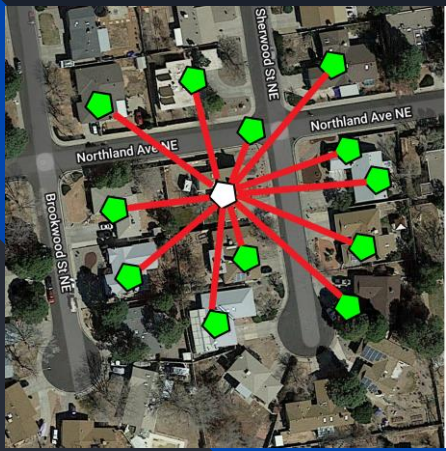
Sample Use Cases

1. Emergency beacon to neighbors.

2. Asking a cute person to a party or to coffee.

3. Invite coworkers to an office party, or meeting.

4. Invite people to go on a film tour.
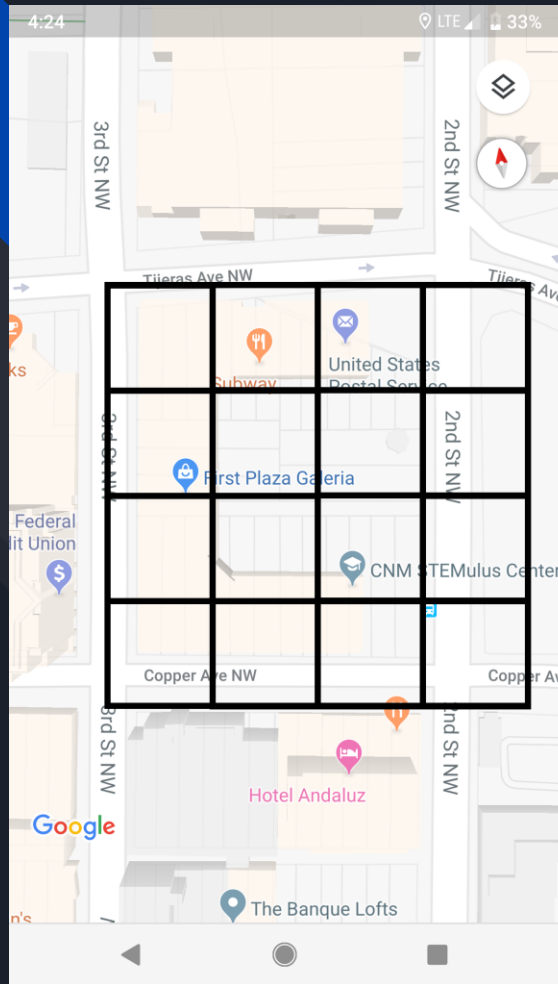
Database Design

Entities

Person
Invitation
Square

Here's a visualization of our location grid of Downtown Albuquerque

Issues With Only Using Squares

List of closest people to green:

Issues With Only Using Squares

List of closest people to green:

Database Design

Entities

Person
Invitation
Square
Vertex

Here's a visualization of our location grid of Downtown Albuquerque with vertices included.

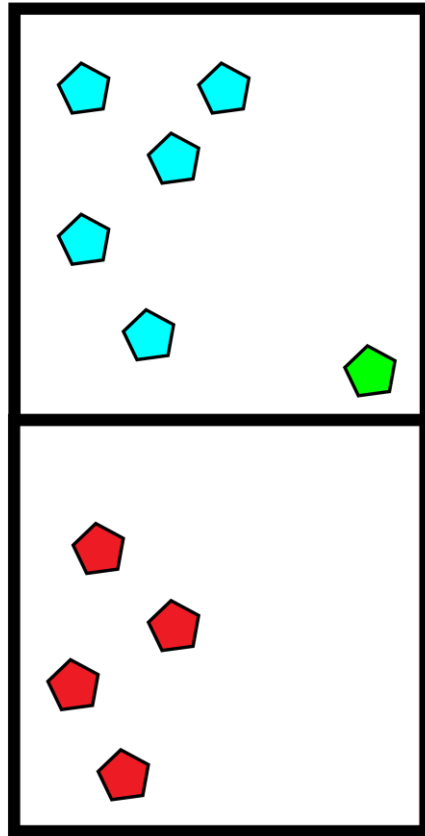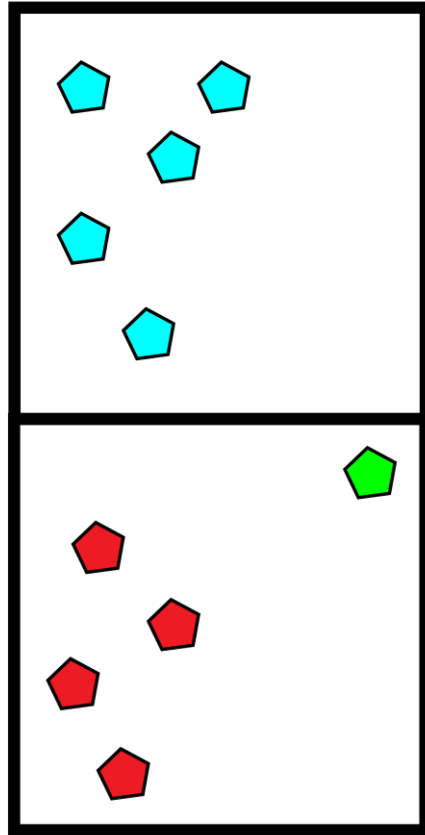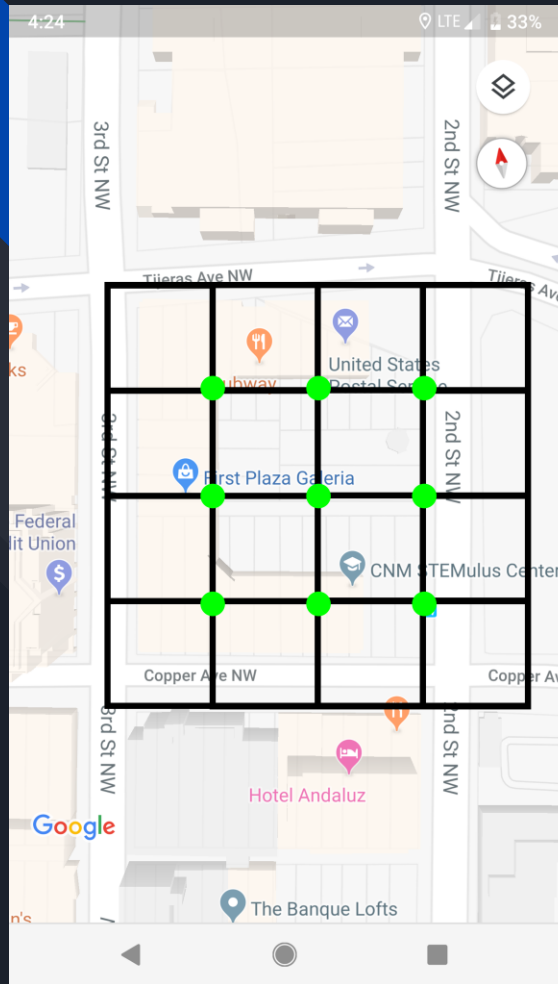# Scalability Improvements

Single List Search Time: O(n)

- Complex calculations as part of the constant.

- Fast with small n value.

- Scales poorly as n increases; every user will be requesting this search 1-3 times a minute.

Squares and Vertices List Return: constant

- No complex spherical distance calculations.

- Essentially, presorts the Person objects into Squares.

- However, it requires a grid to be pre-made.

Security

- Google Oauth2 provider frontend
- JSON web token for backend verification
- Https server connections
- Room and Hibernate ORMs for communicating via prepared statements

Join Me's Technology Stack

Join Me!

Let's join each other!