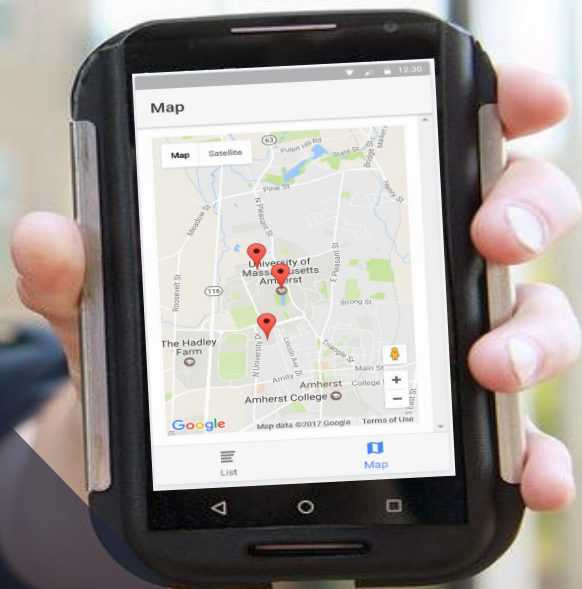


Party Pass

CS320 Spring 2017



Development Team

Team Party Hardy

ROMAN
GANCHIN



WILL
SATTANUPARP



NICK
MERLINO



MIKE
GALLANT



JOSH
SILVIA

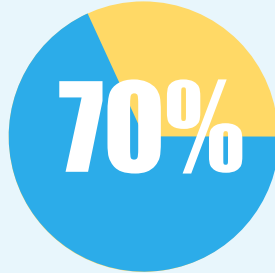


MATT
CASSANO

Team Manager: Tamara ZBITNaja

Party Intervention

What's the Problem?



APPROXIMATELY 70% OF POLICE
HOUSE PARTY VISITS RESULT IN
NOTHING OR ONLY A WARNING

* Data from Amherst PD's UMass liaison



100%

APPROXIMATELY 100% OF STUDENTS
BELIEVE THAT IN-PERSON POLICE
INTERVENTIONS OF PARTIES ARE
STRESSFUL AND NOT BENEFICIAL

* Data from our UMass 30 student survey

Our Solution



Party Registration

== A SIMPLE way TO HELP **both** HOSTS and POLICE ==

Goals



convenience

An easier and more efficient way for authorities to control parties in the area



organization

Authorities have an organized list of the nearby parties along with a map of view of exact location



CROSS-PLATFORM

Can be used on the most common mobile devices.



NOTIFICATION

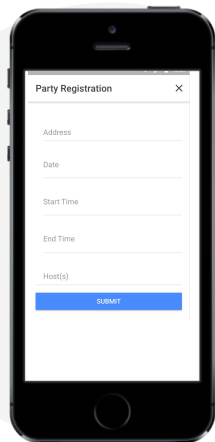
Authorities can quickly and reliably send a notification to the end user.



ACCESSABILITY

Administrators (the authorities) will have separate permissions from ordinary users.

How it Works



1

**PARTY HOSTS REGISTER
THEIR PARTY**



2

**Admin can send
warnings when they
GET COMPLAINTS INSTEAD
OF GOING IN PERSON**



3

**PARTY HOSTS DON'T
HAVE TO WORRY ABOUT
IN-PERSON INTERVENTION
and admins don't
waste their time**

12:30

← Register


Email

Password

REGISTER

Sign Up

12:30



Party Pass

Email

Password

LOGIN

[CREATE NEW ACCOUNT](#)

Login

Home Logout

Computer Science Building, Amherst, MA...

66 Pelham Road, Amherst, MA, United St...

161 Weyland Circle, North Andover, MA, U...

(Warned)
9 Rolling Lane, Burlington, MA, United Sta...

REGISTER PARTY

Main View

Create Party View

Party Registration

Address

Date

Start Time

End Time

Host(s)

SUBMIT

Party Information

Address: 9 Rolling Lane, Burlington, MA, United States

Date: 2017-01-01

Start Time: 13:00

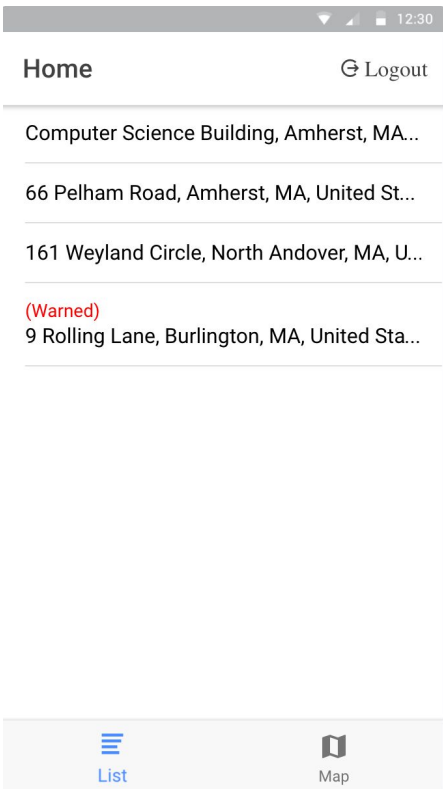
End Time: 13:00

Host(s): nick

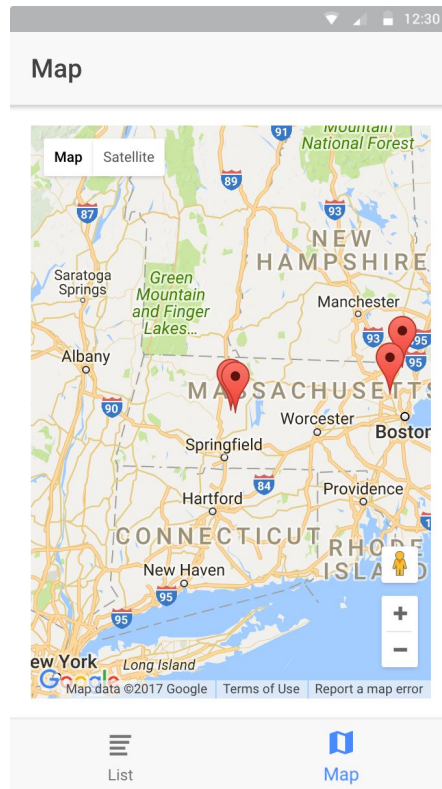
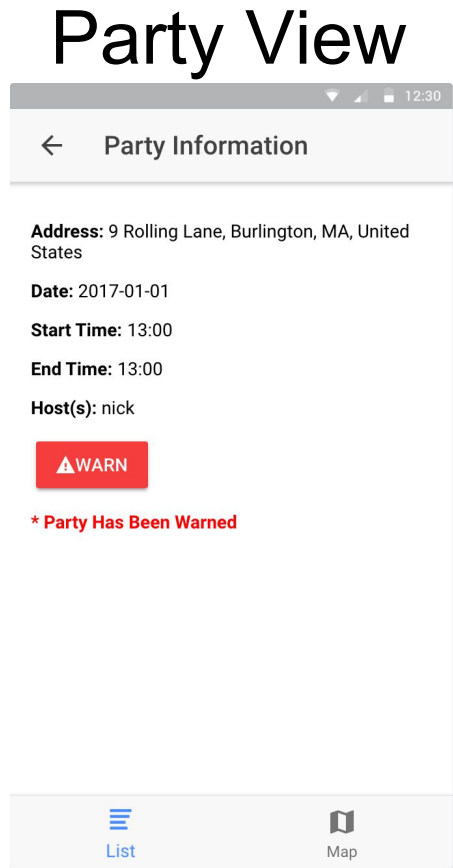
EDIT DELETE

Party View

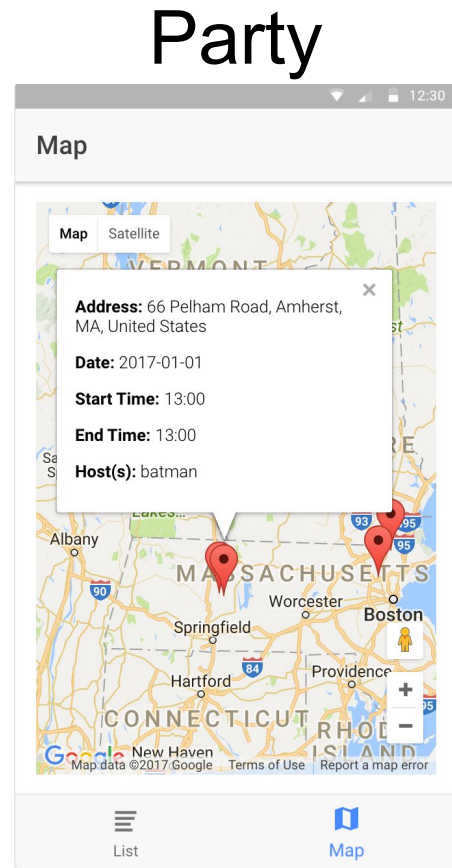
User Experience



Main View



Map View



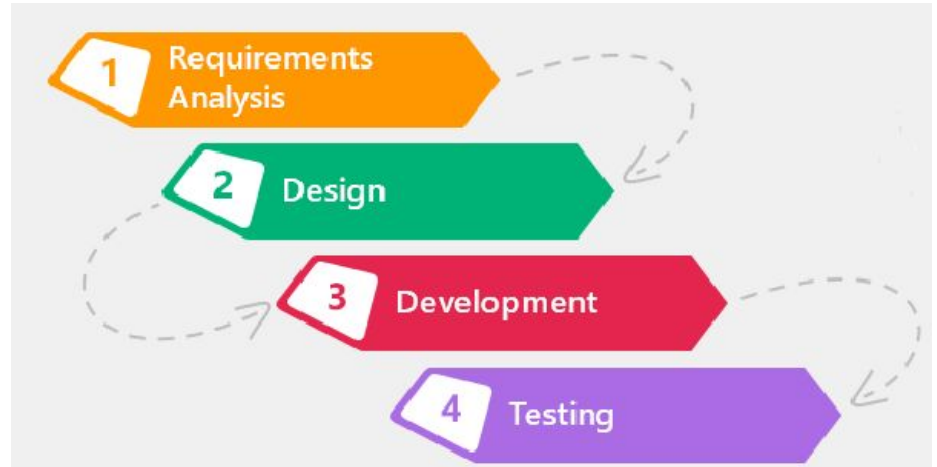
Admin Experience

Methodology

How We Did What We Did

- Waterfall Method (Requirements → Design → Development → Testing)
 - This worked well because we only had access to the client for a limited amount of time

- Github - Version Control
 - Useful to track progress
 - Easy to collaborate



Design Challenges

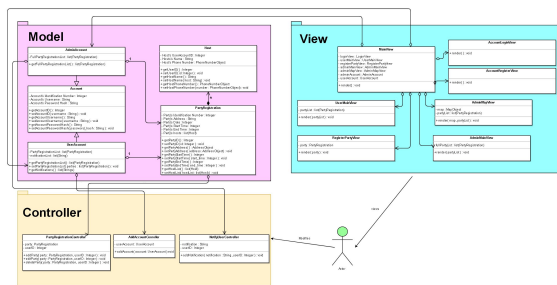
And How We Solved Them

- The app needs to be cross-platform
 - We built it on ionic 2, which easily distributes to iOS, Android, and Windows
- We needed to be able to look up valid addresses and pin them on a map
 - Google API allowed us to look up addresses, geocode (Address → LatLon), and integrate a map
- The Google API is built on Javascript, so it works on desktop and not mobile
 - We chose to continue using it as it works for the demo
 - We got the alternative working, which is to use Cordova, but it only works on mobile and not desktop
- Administrative accounts needs to be verified
 - An admin account can only be created by whomever maintains the app
- We didn't have ample time / ionic experience to fully implement the UML
 - We used MEAN (MongoDB, ExpressJS, AngularJS, NodeJS)

Testing Challenges

And How We Solved Them

- We needed to be able to test efficiently
 - Separated program into Model-View-Controller Architecture



- We used Karma and Jasmine, as they work together to test AngularJS functionality
- Testing was difficult to implement in ionic, partially because we're inexperienced in ionic
 - We ended up testing main functionalities such as signing up, signing in, creating parties, editing parties, deleting parties, and warning parties

Lessons Learned

Start developing
before the
documents are
due

Meteor is hard to
use, go with ionic

Organization
and planning
are the keys
to success

Understand all
aspects of the
application
before coding

Don't agree to
requirements
unless you know
that you can do
them

Demo Time

Please Look Engaged

A vibrant night-time photograph of a pool party. A person is captured mid-air, jumping into a swimming pool that is illuminated with bright blue light. A large, diverse crowd of people is gathered around the pool, many with their arms raised in celebration. In the background, a two-story house and trees are visible under the night sky. The overall atmosphere is festive and energetic.

Thank You

Any questions?