Party Pass

CS320 Spring 2017

Development Team

Team Party Hardy

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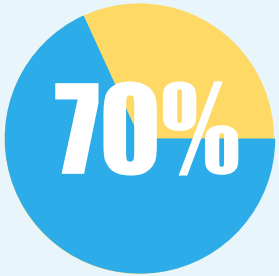
Party Intervention

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.

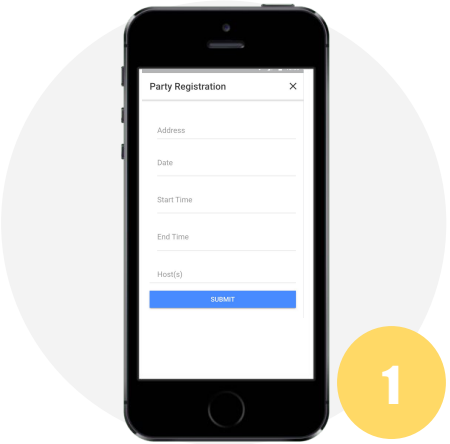
notification

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

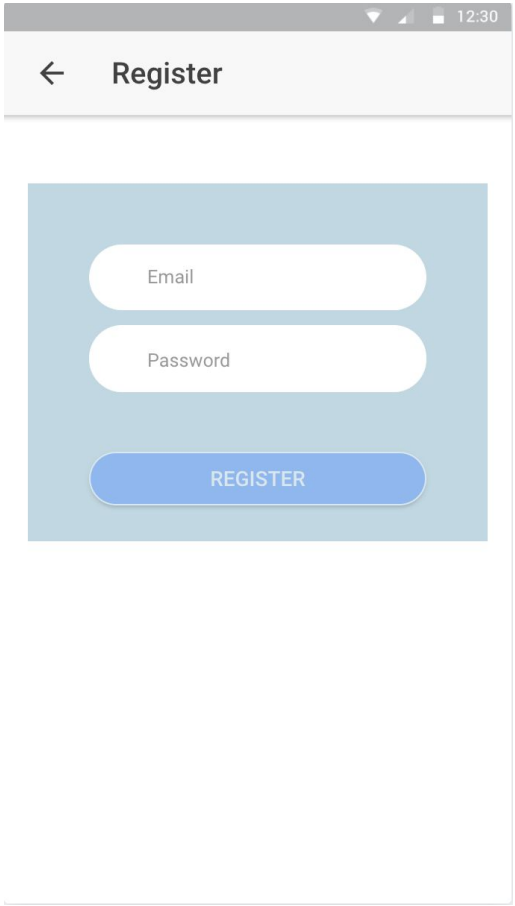
Party hosts register their party

2

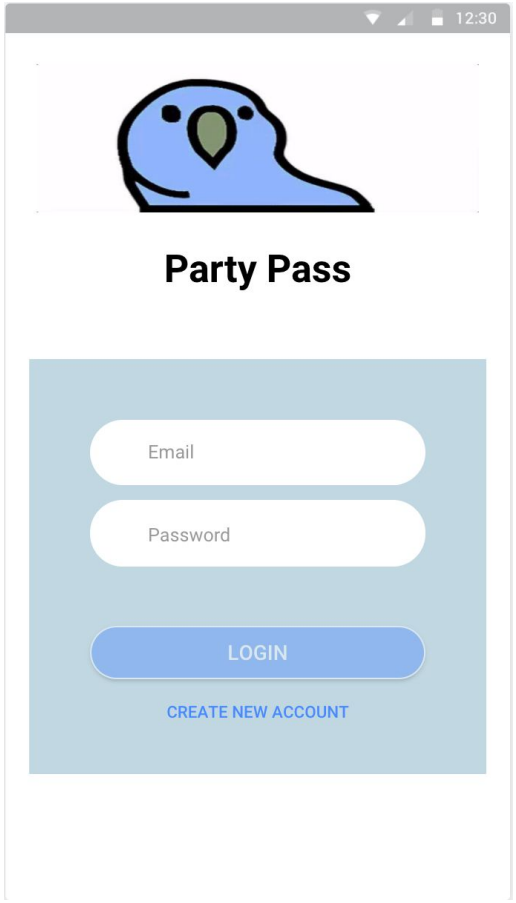
Admin can send warnings when they get complaints instead of going in person

3

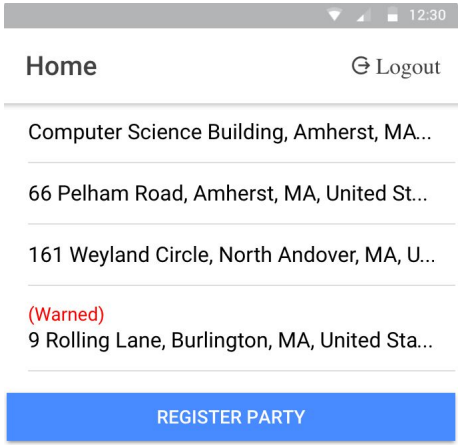
Party hosts don't have to worry about in-person intervention and admins don't waste their time



Sign Up

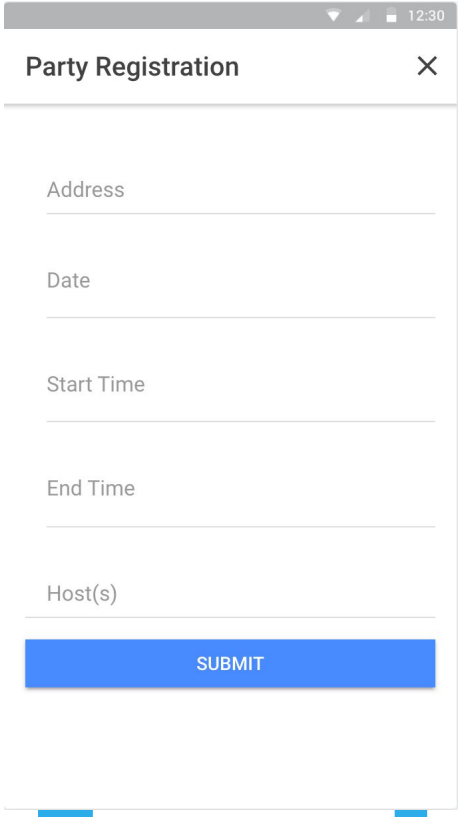


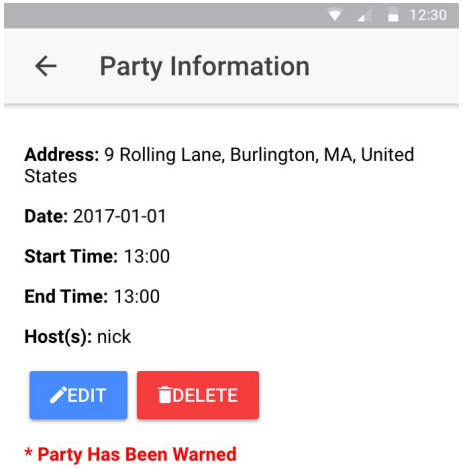
Login



Main View

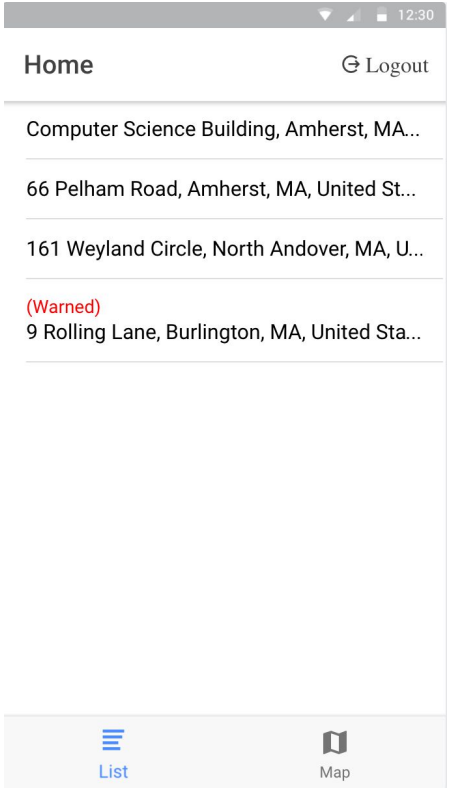
Create Party View





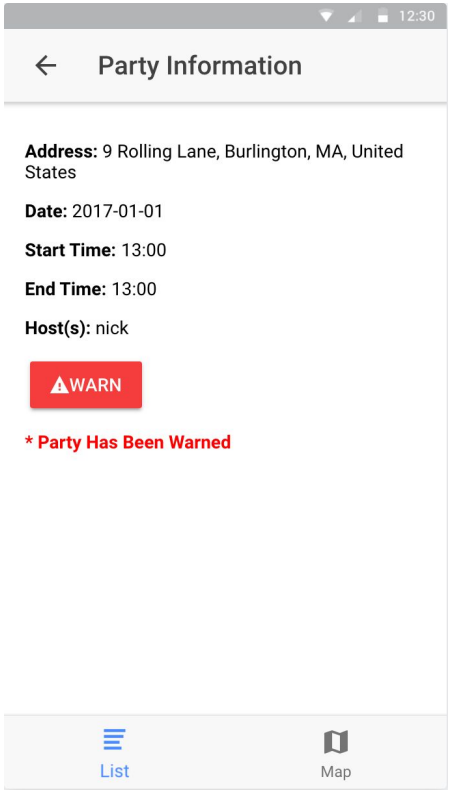
Party View

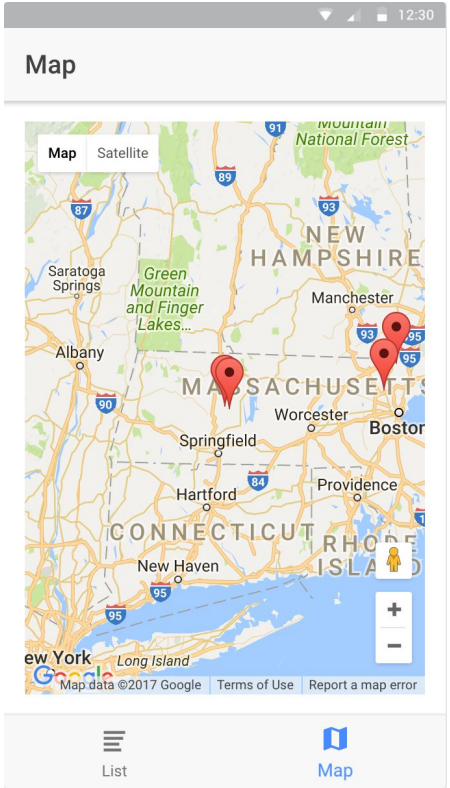
User Experience



Main View

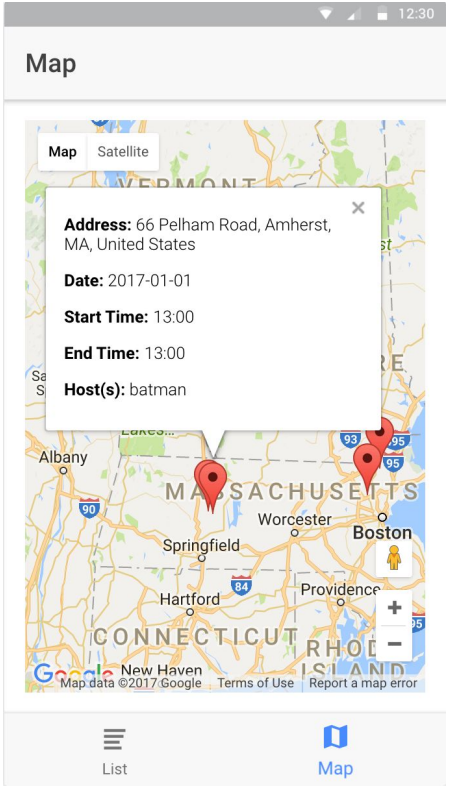
Party View





Map View

Party

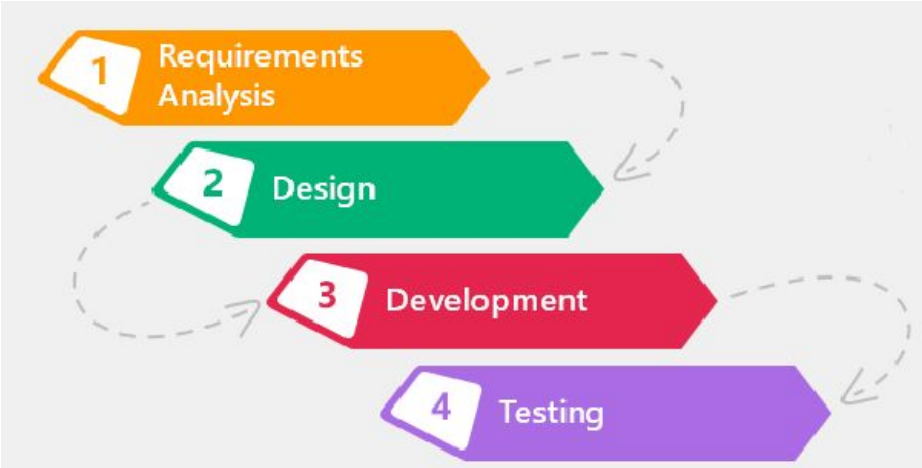


Admin Experience

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

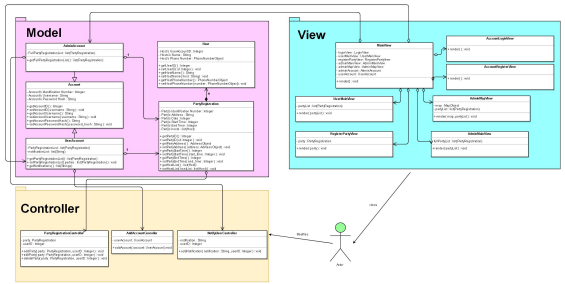
And How We Solved Them

- 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


Thank You
Any Questions?