#### **Team A presents**

# Zombie ApocaMaps!



Daniel Kim - Steven Lim - Simon Meng - Lucky Nguyen - Jordan Yoshihara



## Meet Team A

Simon Meng Back-end developer Jordan Yoshihara Front-end developer Lucky Nguyen Team Lead / Front-end developer

Daniel Kim
Tech Lead / Back-end
developer

Steven Lim
Back-end developer

1 Introduction

### **Outline of Presentation**

Design

04

**User Testing** 

Architecture / Implementation

05

Demo



## INTRODUCTION



Many people are not prepared for disasters. Existing preparedness sites are not designed to keep users interested.

20%

CA homes that can withstand earthquakes California
Earthquake
Preparedness Group
Study



### Our User



Young adults who are starting to live independently or as a family.

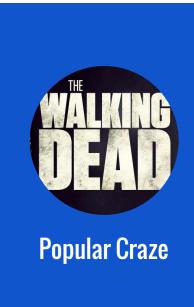
#### **User Needs**

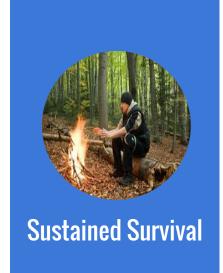
- Communication
- Find resources nearby
- Locate safe place to go to

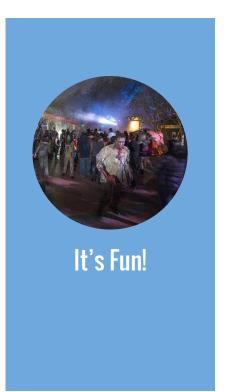


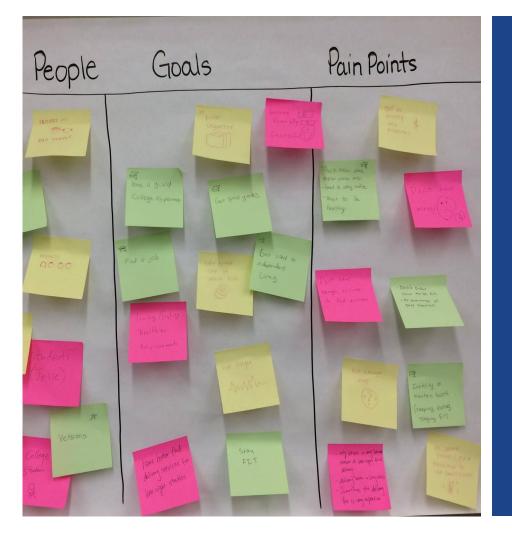
# Why Zombies?!





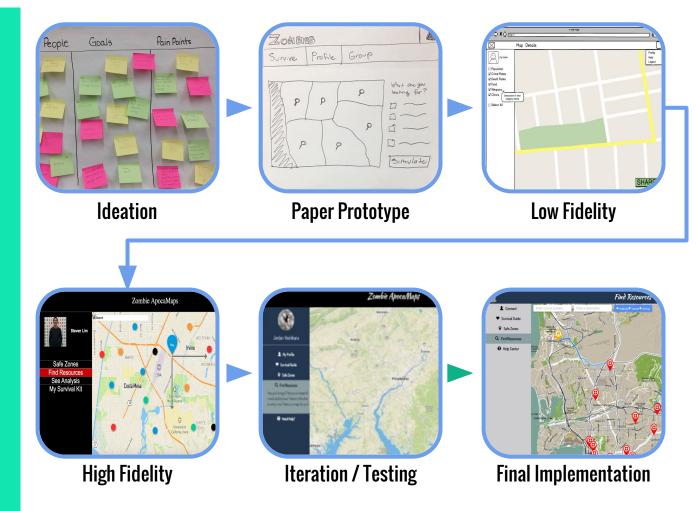






# 02 DESIGN

# Design Process



#### **HCI Principles**

# Visibility of System Status

#### Checklist

Water

Water
 Food
 Food
 Tool
 T

■ Batteries

Alcohol

Utility Knife

Duct Tape

Blankets

Clothes

Passport

Medication

First Aid Supplies

☑ Hygiene Items

Lighter

**■** Gasoline

II. data

Your checklist has been updated.

Notifications, messages, visual changes

# Match between Real/System World



Common icons used, maps, simple language

#### **Error Prevention**



Confirmation dialogs, prompts

## Consistency & Standards



Naming conventions, color scheme

#### **HCI Principles**

# Aesthetic and Minimalist Design



Collapsing/expanding, simple & concise layouts

# Help and Documentation



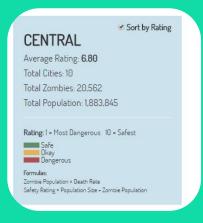
Help page with screenshots, hints

# Recognition over Recall



Data visibility, images, checklist, color coding

# User Control and Freedom



Multiple options, different layouts, interactivity

```
express = require("express");
      app = express();
const http = require("http");
const path = require("path");
var session = require("express-session");
const MongoStore = require("connect-mongo/es5")(session);
var mongoose = require("mongoose");
var passport = require("passport");
var handlebars = require("express-handlebars");
var parser = {
    body: require("body-parser")
require("dotenv").load();
app.use(passport.initialize());
var models = require("./models");
var db = mongoose.connection;
var router = {
 index: require("./routes/index"),
  user: require("./routes/user"),
  connect: require("./routes/connect"),
  check: require("./routes/updateCheckBox")
var parser = {
    body: require("body-parser"),
    cookie: require("cookie-parser")
var conString = process.env.DATABASE_CONNECTION_URL;
var FacebookStrategy = require('passport-facebook').Strategy;
var local database uri = 'mongodb://steven:hello@ds053194.mongolab.com:53194/heroku
var db = mongoose.connection;
mongoose.connect( process.env.MONGODB URI | local database uri );
db.on('error', console.error.bind(console, 'Mongo DB Connection Error:'));
db.once('open', function(callback) {
    console.log("Database connected successfully.");
var SESSION_SECRET = '**Random string**' ;
var session middleware = session({
    key: "session",
    secret: process.env.SESSION_SECRET,
```

# **03** ARCHITECTURE/IMPLEMENTATION

#### **Technical/ Product Risks**

Some people will have hard time in understanding our app

Technical problems in zombie apocalypse era (facebook no longer use, internet)

Non-facebook users are not able to login to app Since delphi database data contains past data, data might not be matched with the data in zombie apocalypse

#### Technology we used

Google Maps API

Node.js / Express.js

Passport.js

MongoDB

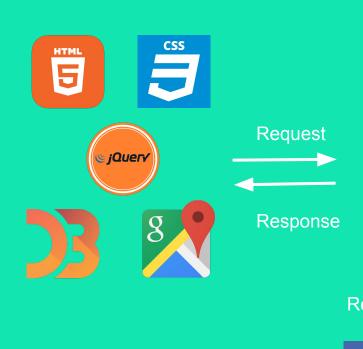
HTML / CSS / Javascript / JQuery / Bootstrap

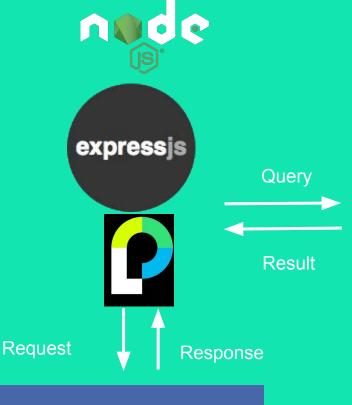
D3.js

**PostgreSQL** 

Not using Mapbox.js anymore due to changed plan on safezone page

# Architecture









facebook

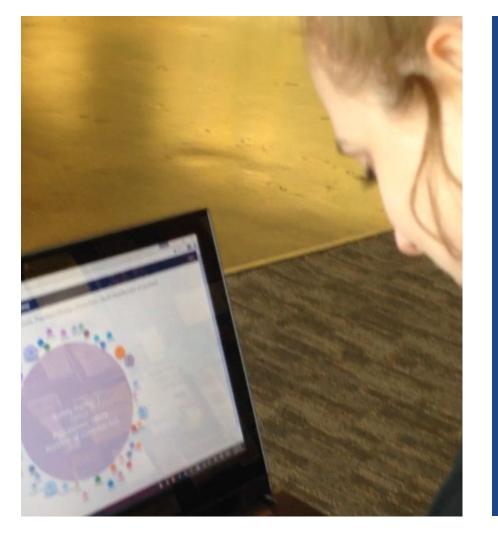
#### **Technical Challenges**

Loading map didn't always finish

Querying data took some delay

Using Google API without conflicting JavaScript

Figuring out D3 components and visualization



# USER TESTING

#### **User Testing**



#### **Positives**

- Fun application and great animations
- + Find resources page was really nice and applicable
- Help page was helpful
- Facebook login



#### **Negatives**

- Confusion about application and purpose
- Some features did not provide enough feedback
- Data takes a while to load
- Some things were not intuitive (like safe zones ratings)

#### THE GOOD:

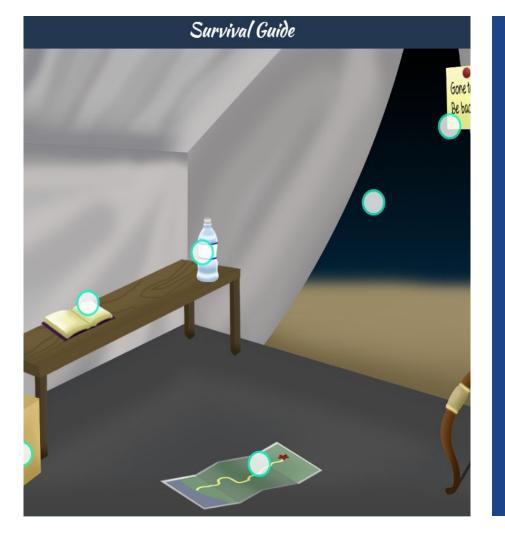
**Team communication and effort** 

#### THE BAD:

So much to do, so little time

### THE NOT SO UGLY:

We all learned a lot about the importance of data visualization and how HCl can be used to make even the most complex data intuitive to understand



## **05** DEMO TIME

https://zombieapocamaps.herokuapp.com