# Game Time: Project Week

**The Coding Bootcamp** 

## Project Week Overview

# You made it!!!

## **Project Week! (This Week)**

#### **Today's Class:**

- Divide into groups
- Begin researching APIs
- Outline project ideas
- Submit Project Proposal for Approval
- Initial Design work

#### **Next Class:**

- Hardcore Development
- Instructor + TA Workshops

#### Rest of the Week:

Hardcore Development



## **Project Week**

#### Today (W)

Planning and API Research

#### This Week (Th/F)

Hardcore Development

#### Next Week (M/T):

Hardcore Development

#### Next Week (W):

- Presentations!
- Intro to Node

#### Next Week (Th/F):

Node & NPM

#### **The Great Push**

- •Be serious about project week!
- •Use this as an opportunity to push yourself and prove what you know.
- •Because YOU KNOW YOUR STUFF!.

# Teams

## **Groups**

#### Team #1

Carmen Collins, Brittani Slimp, Jennifer Bazelak, Suzanne Rashka, Stephen Ridings

#### Team #2

John Kim, Selma Delgado Eric Galassi, Michael Guillen Amanda Kramer

#### Team #3

Thomas Behrenbeck, Adnan Yousef Chase Rabon, Miles Benovic Jared Walker

#### Team #4

Carla Thurston, Alejandro Gonzalez Evelyn Gonzalez, Austin Walker Trang Do

#### Team #5

Travis Copeland, Dylan Marini, Kenneth Fickling, Jyoti Kumari Mason Vickery

#### Team #6

Tin Dang, Lucas Hannan, Thomas Milnes, Abraham Ibarra Sean Angle

#### Team #7

Adams Lowe, Melissa Womack Michael Soto, Terry Williams Jason Kirker

#### Team #8

Sanjan Tripathi, Spencer Vigil Momin Amad, Nanette Labrada

## Task

#### **Coding Requirements**

- Must use at least two APIs
- Must use AJAX to pull data
- •Must utilize at least one new library or technology that we haven't discussed
- •Must have a polished frontend / UI
- Must meet good quality coding standards (indentation, scoping, naming)
- •Must <u>NOT use alerts, confirms, or prompts</u> (look into modals!)
- Must have some sort of <u>repeating element</u> (table, columns, etc)
- Must use <u>Bootstrap or Alternative CSS Framework</u>
- Must be <u>Deployed</u> (Github Pages, Heroku or Firebase)
- Must have <u>User Input Validation</u>

#### **Coding – Nice To Haves**

- •Utilize Firebase for <u>Persistent Data Storage</u> (Consider this <u>basically a requirement</u>).
- Mobile Responsive
- Use an alternative CSS framework like Materialize

#### **Presentation Requirement**

- •You will also be responsible for preparing a 10 minute presentation.
- •This will be a formal presentation.
- •One in which you explain in detail:
  - **Orange Service Servic**
  - **The motivation for its development**
  - Your design process
  - •The technologies you used (and briefly how they work)
  - A demonstration of its functionality
  - ODirections for future development
- •Treat the presentation seriously!
- •Talking intelligently about tech > doing tech sometimes.

#### Be Glam for the Camera

- •All presentations will be recorded...
- •So treat it seriously!
- •These can be great portfolio pieces if you invest the time.

## Metrics

#### **Metrics**

- Concept
- Design
- Functionality
- Collaboration
- Presentation

## Awards Yay!

- Most Awe-Inspiring
- Most Useful
- Most Creative
- Best Use of Tech
- Best UI/UX
- Most Hilarious
- Most Disruptive
- Most Socially Conscious

# API Suggestions

## **API Suggestions**

## Stick to APIs that do all of the following:

- Allows CORS
- Simple or no authentication
- JSON response returned
- Well documented

## **API Suggestions**

#### **API List**

Name	Allows CORS	Authentication Method	Authentication Required
Spotify Web API	yes	oauth	yes/no
raddit API	yex	auth	ужи
Youtube API	yes	API key	yes/no
Linkedin	yes	API key	yes
Soundeland	yes	API key	увя
Wikipedia	yes	n/a	n/a
Rotten Tornatoes	yex	API key	ужи
fliela	yes	oauth	yes
Pinterest API	yes	oauth	yes
Gragle Custom Search API	yex	API key	уен
Tumblr API	yes	outh	yes
Marvel API	yes	API key	уея
GeoNames API	yes	nsername	yes
OMDB	yes	n/a	n/a
fillow	m	m	ужи

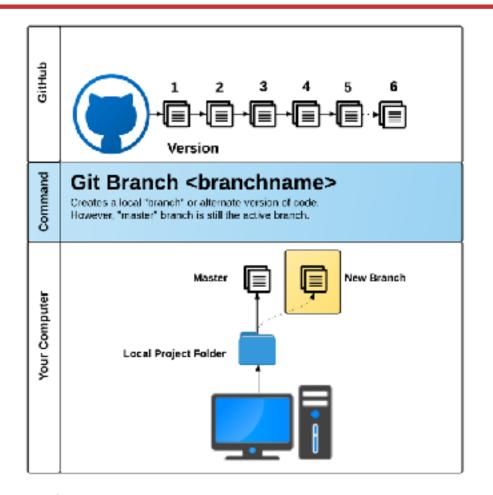
Open Street Maps	yes	n/a	100
<u>GovTrack.us</u>	yes	n/a	no
Sqoot	yes	APIkey	yes
Goods Maps	yes	APIkey	yes
Ginhy	yes	APIkey	yes
JSFiddle	yes	n/a	n/a
<u>Riterin Clorets</u>	унк	п/я	n/s
StackExchange API	yes	eauth	yes
ProPublica NonProfit API	Yes?	n/a	no
U.S. City & County Web Data API	Vex	n/s	IKI
UN Data API	Yes	APIkey	yes
Face ( ) API	Yes	API Key	Yes
MusiXMatch	Ves	APIKey	Ves
Words API	Yes	Token	No

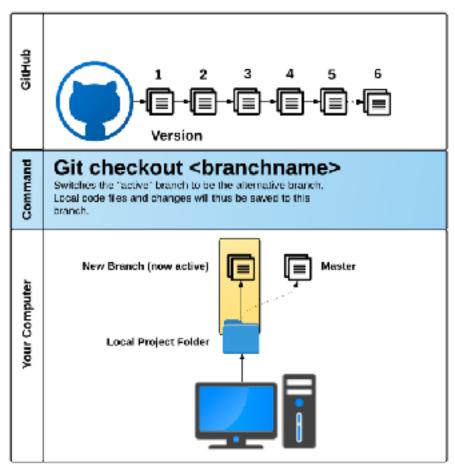
# Tools

#### **Collaboration is Critical!**

- •Steering a project with remote developers like this one can be challenging.
- Consider using the following tools...

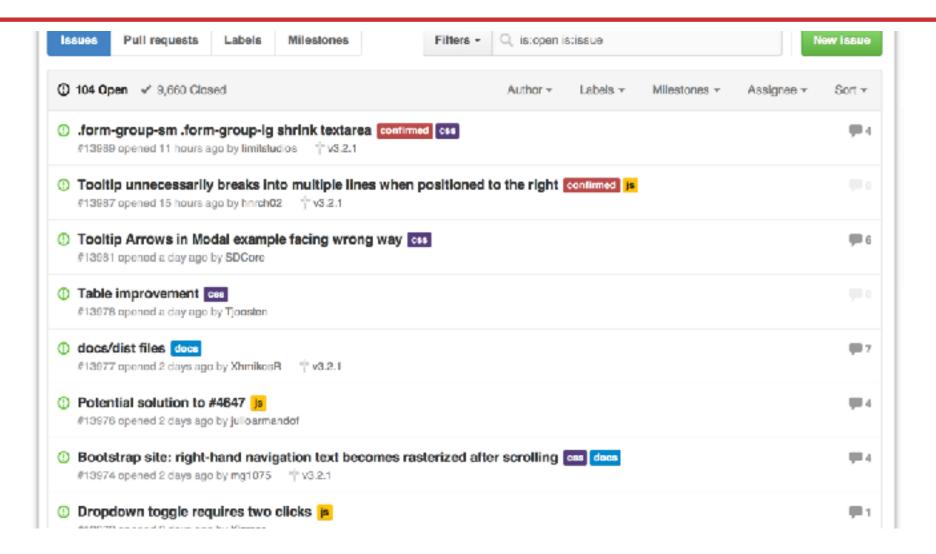
## **GitHub Pull Requests**





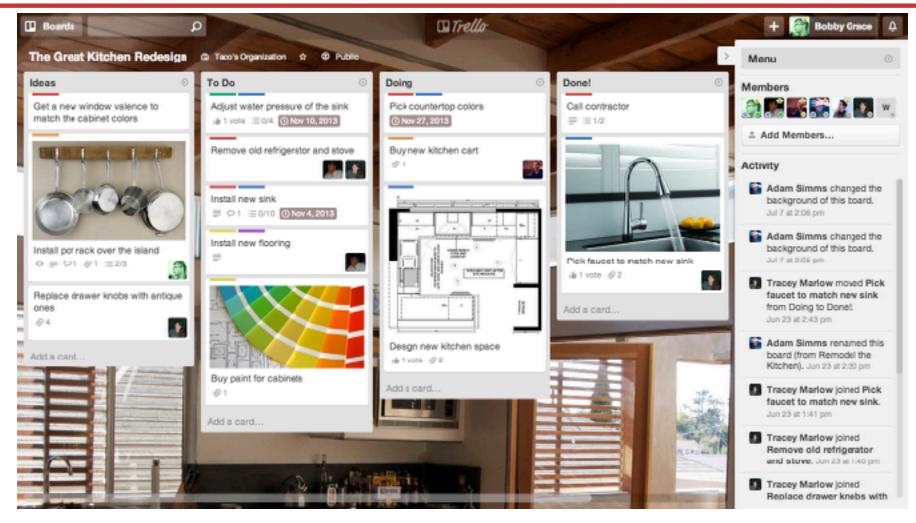
- •GitHub Pull Requests are a great way to "combine" code when multiple users are working on the same files.
- •We'll show you how to use this feature in the next class.

#### **GitHub Issues**



•GitHub Issues are a great way to keep track of bugs, feature requests, etc.

#### **Trello**



•Trello is a great project management tool for creating to-do lists and communicating updates.

# Example Project Ideas

#### **Event Searcher**

- Users type in the name of their favorite sporting team.
- •Then using the SeatGeek API, your web application points them to the next game and location where the team is playing.
- •The web application also provides them a link to Ebay where they can purchase memorabilia associated with the team.



#### **UN Data API**

- •Use the Unofficial UN Data API to search a user specified country's health records.
- •Then use a secondary data source (Google Maps, Flickr, YouTube, etc.) to provide additional context or data.
- •Examples: Per Capita Govt Expenditures on Health, # of Physicians, Deaths due to HIV, Malaria Cases etc, low birth weight newborns



## **Facial Recognition**

- Use the Face++ API
- •Allow users to provide a URL link to a facial image then provide viewers with information on the image's gender, race, whether they are wearing glasses, and their age
- Use Firebase to update ALL users of the site about the current search



**Or...** 

# Just do your own thing. Be creative! Be ambitious!

# Today's Focus

#### By End of Day - Today

- Brainstorm possible ideas
- Begin API Research
- Create an initial draft / sketch of the final design
- Create a short 1 page proposal listing out each of the following:
  - **Project Title**
  - **Team Members**
  - •Project Description
  - **Sketch of Final Product**
  - APIs to be Used
  - **Rough Breakdown of Tasks**

# Questions