Game Time: Project Week

The Coding Bootcamp |

Project Week Overview

Yay!

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

This week
- Hardcore Development
- Instructor + TA Workshops

Your (work) weekend:
- Hardcore Development
- Presentation practice

Project Week (Next Week)

<u>MONDAY!</u>
- Presentations!
- Intro to Node.js

The Great Push

- *Be serious about project week!*

- Use this as an opportunity to push yourself and prove what you know.

- Because you *DO KNOW* shiz.

Teams

Groups

Timothy Hayes	Marcus Hobbs	Saleena Beharry	Brianna Dunaj
John Davis	David Mansen	Connor Chase	Luis Hernandez
Mario Iovanna	Bridget Bourne	Sakina Shivji	Marc Palestina
Samuel Resende	Matthew Bond	Melanie De La Paz	

Kevin Torres	Courtney Phelps
Kevin Liburd	Gabrielle Taylor
Zubaer Ahmed	Nathaniel Ellsworth
Rheginald Patricio	Matt Triantafellu

Task

Coding Requirements

- **Must uses at least <u>two APIs</u>**

- **Must use <u>AJAX to pull data</u>**

- **Must utilize at least one <u>new library or technology</u> that we haven't discussed**

- **Must have a <u>polished frontend / UI</u>**

- **Must meet <u>good quality coding standards</u> (indentation, scoping, naming)**

- **Must <u>NOT use alerts, confirms, or prompts</u> (look into <u>*modals*</u>!)**

- **Must have some sort of <u>repeating element</u> (table, columns, etc)**

- **Must use an <u>alternative CSS Framework (like bootstrap, but not.)</u>**

- **Must be <u>Deployed</u> (GitHub pages)**

- **Must have <u>User Input Validation</u>**

- **Utilize localStorage for <u>Persistent Data Storage</u> (Consider this <u>basically a requirement</u>).**

Presentation Requirement

•You will also be responsible for preparing a <u>10 minute presentation.</u>

•<u>This will be a formal presentation.</u>

•One in which you explain in detail:

  ○Your overall application's concept

  ○The motivation for its development

  ○Your design process

  ○The technologies you used (and briefly how they work)

  ○A demonstration of its functionality

  ○Directions for future development

•Treat the presentation seriously!

•*Talking intelligently about tech > doing tech sometimes.*

Metrics

- **Concept**

- **Design**

- **Functionality**

- **Collaboration**

- **Presentation**

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
reddit API	yes	auth	yes
Youtube API	yes	API key	yes/no
Linkedin	yes	API key	yes
Soundcloud	yes	API key	yes
Wikipedia	yes	n/a	n/a
Rotten Tomatoes	yes	API key	yes
flickr	yes	oauth	yes
Pinterest API	yes	oauth	yes
Google Custom Search API	yes	API key	yes
Tumblr API	yes	outh	yes
Marvel API	yes	API key	yes
GeoNames API	yes	username	yes
OMDB	yes	n/a	n/a
Zillow	no	ID	yes

| Name	Allows CORS	Authentication Method	Authentication Required
Open Street Maps	yes	n/a	no
GovTrack.us	yes	n/a	no
Sqoot	yes	API key	yes
Google Maps	yes	API key	yes
Giphy	yes	API key	yes
JSFiddle	yes	n/a	n/a
Bitcoin Charts	yes	n/a	n/a
StackExchange API	yes	oauth	yes
Pro Publica Non Profit API	Yes?	n/a	no
U.S. City & County Web Data API	Yes	n/a	no
UN Data API	Yes	API key	yes
Face++ API	Yes	API Key	Yes
MusiXMatch	Yes	API Key	Yes
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
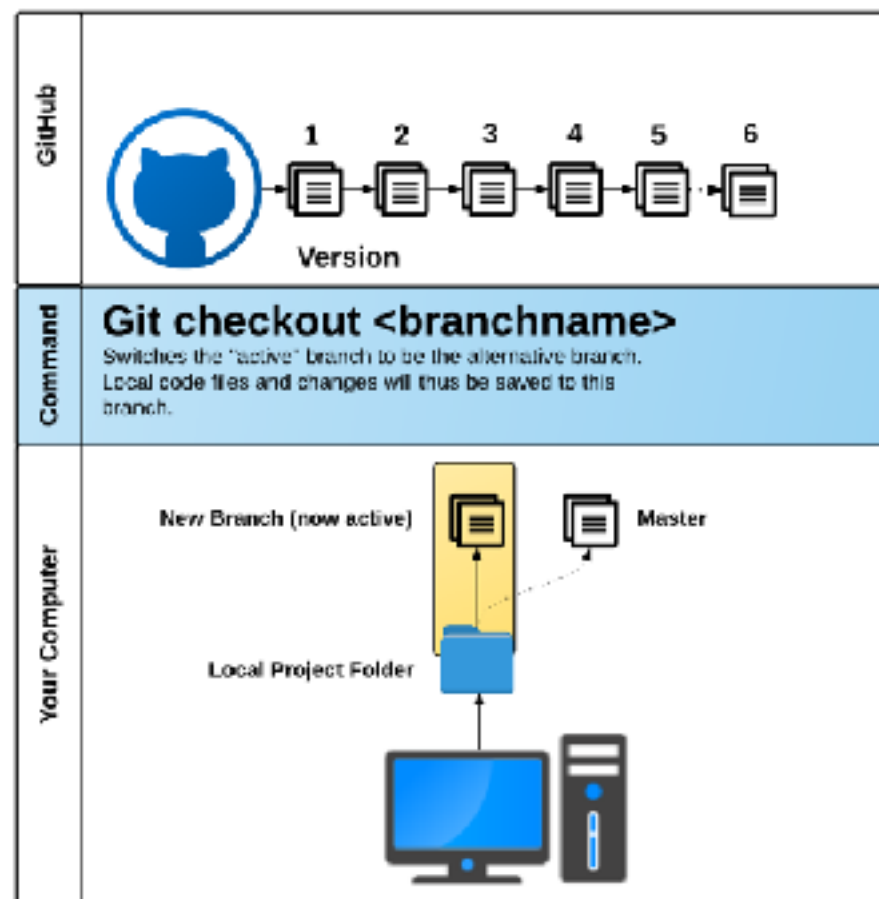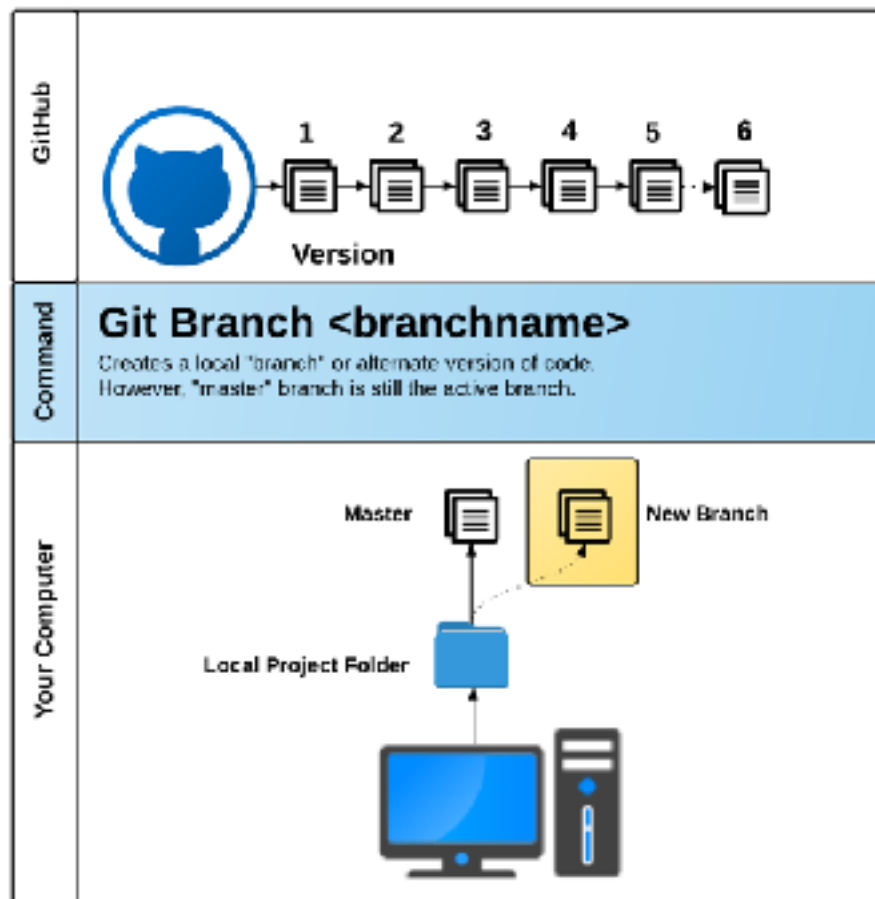
•GitHub Pull Requests are a great way to "combine" code when multiple users are working on the same files.

•We'll show you how to use this feature in the next class.

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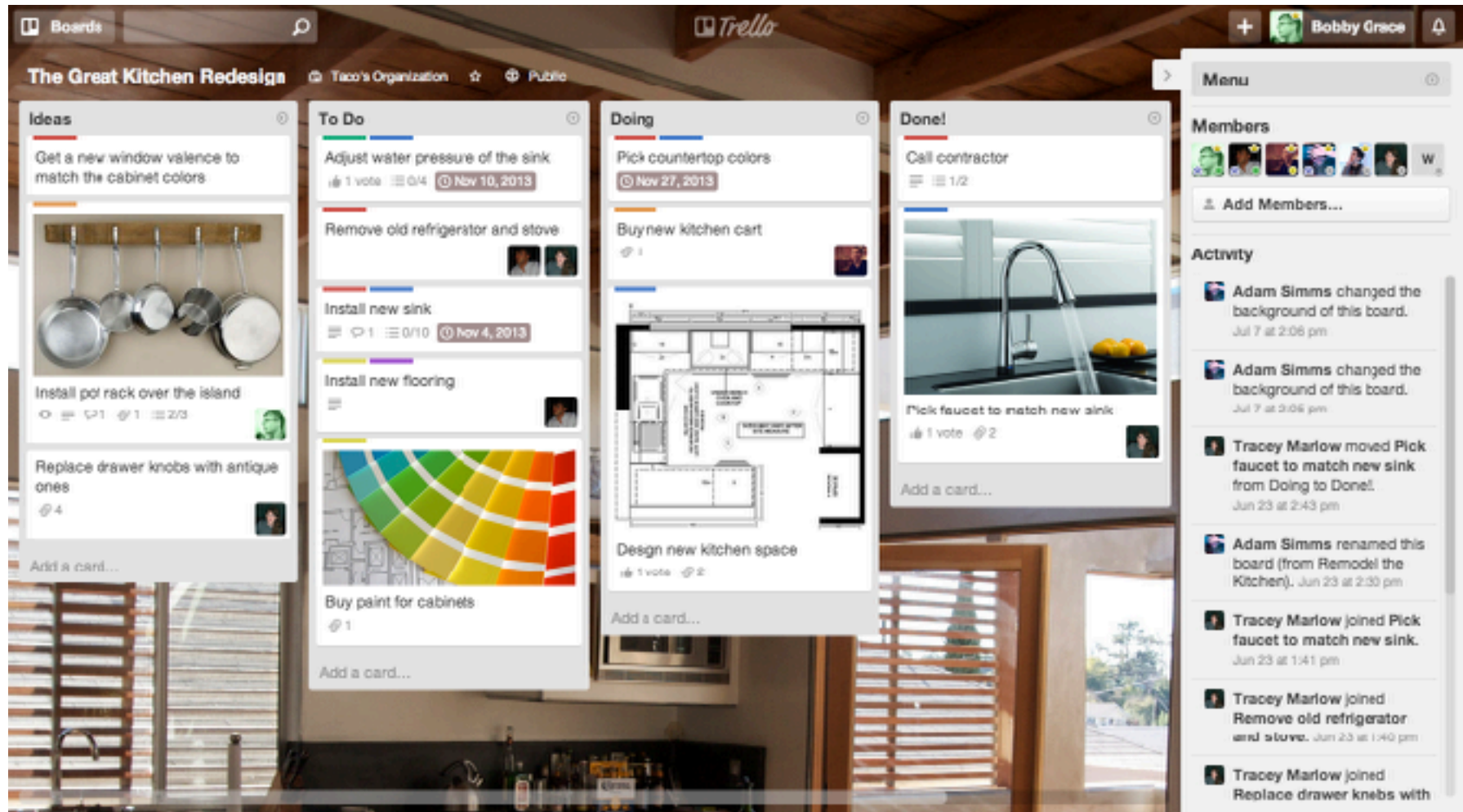
•Trello is a great project management tool for creating to-do lists and communicating updates.

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

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

- <u>Create a short 1 page proposal listing out each of the following:</u>

  - Project Title

  - Team Members

  - Project Description

  - Sketch of Final Product

  - APIs to be Used

  - Rough Breakdown of Tasks

Questions