

Project Week! (This Week)

Today's Class:

- Continuing API research
- Outline project ideas
- Submit Project Proposal for Approval
- Initial Design work

Next Class - Thursday, 31 Aug:

- Coding Development
- Instructor + TA Workshops

Saturday & Next Tuesday (2 & 5 Sep) - Holiday Break

Project Week (Next Week)

Next Week Thursday (7 Sep):

- Project Development

Saturday's Class (9 Sep):

- Project Development

Next Week Tuesday (12 Sep):

- Project Development
- Presentation Prep

Next Week Thursday (14 Sep):

- Presentations

The Great Push

- ***Be serious about project week!***
- Use this as an opportunity to push yourself and prove what you know.
- Because you got this

- This is not a time to relax (except the Holiday weekend) or go on `cruise control.' Take advantage of this time to go back over previous in-class-activities, and homework assignments until you are a JavaScript Master.

Teams

Best Groups Ever!

Local Events

Ryan L*
Joe
Todd
Tyler

Date Planner

Shane*
Chris
Desare
Raymon

Food Locations

Ryan S*
Mark S
Tony
Eric

Code Reference Tool

Gavin*
Geoff
Mark E
WenFang

Weather & Images

Ryan B*
Derek
Megan

TV Shows

Billy*
Kendra
Monica

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 NOT use alerts, confirms, or prompts (look into *modals!*)
- Must have some sort of repeating element (table, columns, etc)
- Must use Bootstrap or Alternative CSS Framework
- Must be Deployed (Github Pages)
- Must have User Input Validation

Coding – Nice To Haves

- Utilize Firebase for Persistent Data Storage (Highly Recommended!!!)
- Mobile Responsive - Why do it any other way?
- 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:
 - 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 is as important as doing tech sometimes.

Game on!

- All presentations will be recorded...
- These can be great portfolio pieces if you invest the time.

- **Functionality**
- **Collaboration**
- **Presentation**

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Potential Award Categories

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

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API Suggestions

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API Suggestions

Stick to APIs that do all of the following:

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

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API Suggestions

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				
Open Street Maps	yes		n/a				
GovTrack.us	yes		n/a				
Sqoot	yes		API key				
Google Maps	yes		API key				
Giphy	yes		API key				
JSFiddle	yes		n/a				
Bitcoin Charts	yes		n/a				
StackExchange API	yes		oauth				
ProPublica NonProfit API	Yes?		n/a				
U.S. City & County Web Data API	Yes		n/a				
UN Data API	Yes		API key				
Face++ API	Yes		API Key				
MusiXMatch	Yes		API Key				
Words API	Yes		Token				

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Tools

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Collaboration is Critical!

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

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GitHub Pull Requests

Github	 A sequence of six document icons labeled 1 through 6, representing a linear version history.
Command	Git Branch <branchname> Creates a local "branch" or alternate version of code. However, "master" branch is still the active branch.
Your Computer	A diagram showing a "Local Project Folder" containing a "Master" file. A "New Branch" file is being created from it, indicated by a dashed arrow pointing upwards.
Github	 A sequence of six document icons labeled 1 through 6, representing a linear version history.
Command	Git checkout <branchname> Switches the "active" branch to be the alternative branch. Local code files and changes will thus be saved to this branch.
Your Computer	A diagram showing a "Local Project Folder" containing a "New Branch (now active)" file. A "Master" file is shown separately. A dashed arrow points from the "New Branch" file back down to the "Local Project Folder".

- 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 again today.

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GitHub Issues

The screenshot shows the GitHub Issues page with the following details:

- Header navigation: Issues, Pull requests, Labels, Milestones, Filters, New Issue.
- Search bar: is:open is:issue
- Statistics: 104 Open, 9,660 Closed.
- Issues listed:
 - .form-group-sm .form-group-lg shrink textarea [confirmed] [css]
 - Tooltip unnecessarily breaks into multiple lines when positioned to the right [confirmed] [js]
 - Tooltip Arrows in Modal example facing wrong way [css]
 - Table improvement [css]
 - docs/dist files [docs]
 - Potential solution to #4647 [js]
 - Bootstrap site: right-hand navigation text becomes rasterized after scrolling [css] [docs]
 - Dropdown toggle requires two clicks [js]
- Footer: © 2016 | Coding Boot Camp - All Rights Reserved

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

Trello

The screenshot shows a Trello board titled "The Great Kitchen Redesign" with the following structure:

- Ideas:**
 - Get a new window valence to match the cabinet colors (image of various pots and pans)
 - Install pot rack over the island (image of a pot rack)
 - Replace drawer knobs with antique ones (image of wooden blinds)
 - Add a card...
- To Do:**
 - Adjust water pressure of the sink (Nov 10, 2013)
 - Remove old refrigerator and stove
 - Install new sink (Nov 4, 2013)
 - Install new flooring
 - Buy paint for cabinets
 - Add a card...
- Doing:**
 - Pick countertop colors (Nov 27, 2013)
 - Buy new kitchen cart
 - Design new kitchen space
 - Add a card...
- Done!**
 - Call contractor (image of a modern faucet)
 - Pick faucet to match new sink (image of a faucet)
 - Add a card...
- Members:** Bobby Grace, Adam Simms, Tracey Marlow, etc.
- Activity:**
 - Adam Simms changed the background of this board.
 - Adam Simms changed the background of this board.
 - Tracey Marlow moved Pick faucet to match new sink from Doing to Done!.
 - Adam Simms renamed this board (from Remodel the Kitchen).
 - Tracey Marlow joined Pick faucet to match new sink.
 - Tracey Marlow joined Remove old refrigerator and stove.
 - Tracey Marlow joined Replace drawer knobs with

- Trello is a great project management tool for creating to-do lists and communicating updates. Asana is another good one.

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



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Or...

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

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Today's Focus

By End of Day - Today

- Refine project ideas
- Continue 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 (Project Manager, Front End, Back End, UI/UX)

CODING

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