Where 2 Watch

An Intuitive Video Streaming Search Service

Concept & Purpose

Function as a singular search source to discover which video streaming services a desired media is available on.

Search for a desired media within a users' existing subscribed streaming services to discover whether or not said media is available on a platform they already have.

Motivation For Creation

Primary: The media marketplace's lack of existing searchability that filters by specific media, video streaming service and availability of media.

Ancillary: The frustration of obtaining video media without having to resort to piracy.

Minor: Ensure project created would have a feasible, reasonable real world application.

The Design Process (1/3)

See: none.

(initially)

The Design Process (2/3)

Not having prior collaborative project, and collaborative GitHub experience made creating a foundation and vision more challenging than it should have been.

Struggles we had to overcome during the design process:

- Tasks and issues being delegated reasonably, and with minimal overlap.
- Everyone simultaneously working on similar things.
- The mess with multiple different pushes to GitHub; conflicts, errors and resolutions.
- Practical code modularization to minimize conflicts and errors.
- Finding out mid-development our primary API had restrictions on the free version (make sure you read your fine print).
- Not exceeding max allowed API calls.
- Finding creative work arounds for limitations on API and our general lack of development knowledge.
- Extremely inconsistent API response information and poor supporting documentation.
- We didn’t know how to plan properly, so we didn’t plan at all (initially).
- But seriously, the GuideBox API is organized terribly.

The Design Process (3/3)

After we found middle ground creating a foundation:

- Reached mutual agreement on purpose, intent and desired functionality.
- Drafted a basic, hand drawn design for UI and functionality.
- Outlined features and functionality we wanted the product to have completed by due date.
- Delegation of tasks to minimize overlap and unnecessarily doubled efforts.
- Modularized code to minimize GitHub conflict reviews.
- A never ending amount of testing, console logging and code cleanup.
- Designing practical work-arounds for all things we wanted to work, but didn't work.
- Came to an agreement on uniform classes and identifiers to end the mismatch in code.

Technologies, Libraries, API's, Frameworks, etc:

HTML5

CSS3

JavaScript

Google Slides

jQuery: https://code.jquery.com/

Bootstrap: https://getbootstrap.com/

CORS Bypass: https://cors-anywhere.herokuapp.com/

Firebase: https://firebase.google.com

API's:

- GuideBox: https://api.guidebox.com/
- OMDB: http://www.omdbapi.com/

Styling Libraries:

- Font Awesome: https://origin.fontawesome.com/
- Animate: https://daneden.github.io/animate.css/
- Wicked: https://kristofferandreasen.github.io/wickedCSS/

Other:

- GitHub: https://github.com/
- GitBash: https://git-scm.com/downloads
- Visual Studio Code: https://code.visualstudio.com/download

Demonstration Time!

Key Features to Present:

Search for desired input returns results and corresponding information from OMDB.

On-Click search initiates GuideBox call and returns available streaming service platforms.

User ability to register, sign-in, sign-out and reset password.

User ability to save items to favorites based on user authentication and prior registration.

Direction and Ideas For Future Development (1/3)

Constant Polishing: forever maintain an up-to-date, stylish, contemporary, aesthetically pleasing user interface.

Further expand search functionality of media to be inclusive of genres, persons, critic ratings, audience ratings, movie ratings, year of release and more.

Allow users to select and store which video streaming services they currently subscribe to and the option to limit media searches within those services.

Create algorithms to make recommendations of media based on users watch history, favorites and existing subscriptions.

Direction and Ideas For Future Development (2/3)

Create recommendations for users for streaming services to subscribe to based on user preferences, favorites, prior searches and any future partnership agreements with service providers.

Design functionality for users to search and filter streaming services by free trials, pricing of service and availability (region locks, or requirement to have a cable company subscription).

Allow users to input and store login information for existing subscriptions for redirects to watch searched media.

Develop method to allow user searched media to be watched through W2W by embedding video and using stored logins for subscribed services.

Direction and Ideas For Future Development (3/3)

Develop a mobile application so that users can have access to and watch media from mobile devices (pads, phones, etc).

Further expand functionality to incorporate music media and music streaming services.

Explore affiliates, advertisements and referrals to develop a method of offsetting costs and ultimately obtaining profitability, while maintaining a free user experience.

More Examples and Explanations Please

Things we struggled with and would like additional classroom examples regarding:

- Thorough review of how-to properly resolve conflicts and errors in pull requests.
- Submitting simultaneous AJAX requests and how to handle responses.

The Team: GitHubs & Contributions

Sarah Tucker

GitHub: https://github.com/tucksa

MVP: Designed authentication system so that users may register, login and save searched information, preferences and subscribed services. She did all the hard stuff no one else really wanted to do. Big props.

Charles Brady

GitHub: https://github.com/charlesmbrady

Project Manager: Delegated tasks, resolved a litany of bugs and issues within code. Beautified and organized code with notations and proper indentation. Gracefully handled the mess that was our collaborative GitHub pushes, pulls and general inability to properly navigate GitHub.

Amy Burke

GitHub: https://github.com/burkeamy

UI Design: Tackled the daunting task of creating a uniform, functioning user interface. Meshed our mess of code with the designed UI. Designed by hand a multitude of graphics for incorporation in project. Developed a polished, cleaned index. Compiled design details, styles and CSS.

Wes Hatley

GitHub: https://github.com/parallelam

Perfect Hair: A staggeringly beautiful man with immaculate hair. Contributed: idea, PowerPoint, code modularization, calls, classy pajama recommendations and all around beauty.