

YouTube Wrapped

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Description

- Basically a Spotify Wrapped for YouTube
- Uses YouTube's Data API to show information about a user such as:
 - Most watched channel
 - Most watched video
 - Their first video watched
 - Last video watched
 - Most liked video watched
- These cards also have links to the video themselves
- Users are anyone interested in learning more about their YouTube viewing habits

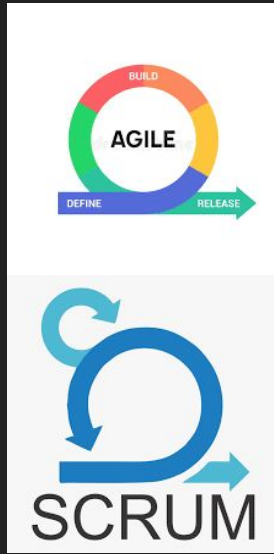
Methodology

Description

- We had weekly group agile meetings where we would optimize production and collaborate.
- Weekly simulated client meetings with TA.

Rating: 4

- Convenient to have a set meeting time weekly.
- Weekly TA feedback was necessary to maximize progress on our features.





Project Tracker: GitHub Projects

Description:

- Keep track of work currently being done on project
- Show completed work

Rating: 2

- Useful to organize and plan at beginning of project
- Did not utilize as project progressed



VCS Repository: GitHub

Description:

- Allow users to work on their own branch and push to a main to merge code
- Resolve merge conflicts when working on the same code
- Keeping track on what changes within the codebase

Rating: 4

- Very reliable, allows users to see and access previous commits
- Resolving merge conflicts can be kind of annoying

Database: PostgreSQL



Description:

- Created a database to store registered usernames (Channel IDs) and passwords.
- Checked login inputs with registered usernames and passwords to determine if account exists.
 - If username or password does not exist in the database, the login would fail.

Rating: 3

- This was simple enough to use and create and our register and login functions depend on the database.
- However, didn't have any use for making databases anywhere else.

IDE: VsCode



Description:

- Environment for coding the full stack of the project

Rating: 5

- Useful for working between files such as creating a feature on the front-end and adding functionality on the back-end
- Keeps files organized while coding
- Helps catch syntax errors

UI Tools: HTML, Bootstrap



Description:

- Tools used to build the UI for each page
- HTML for page layout, and CSS/Bootstrap for stylizing (background color, text size, etc.)

Rating: 5

- These tools were used for every single page.
- Very simple tools to use with a lot of resources online telling you how to use them



Application Server: NodeJS

Description:

- Used to code API calls and routes

Rating: 3.5

- Project couldn't work without it
- But, it does require coding in JavaScript
- And Axios has inconvenient quirks

Deployment Environment: Azure



Description:

- Hosting the site on the cloud so it can be accessed by anyone

Rating: 4

- Easy to set up, and rehost site when changes are made
- Limits users to 750 hours before charging \$100 if not taken down

External API: YouTube Data API



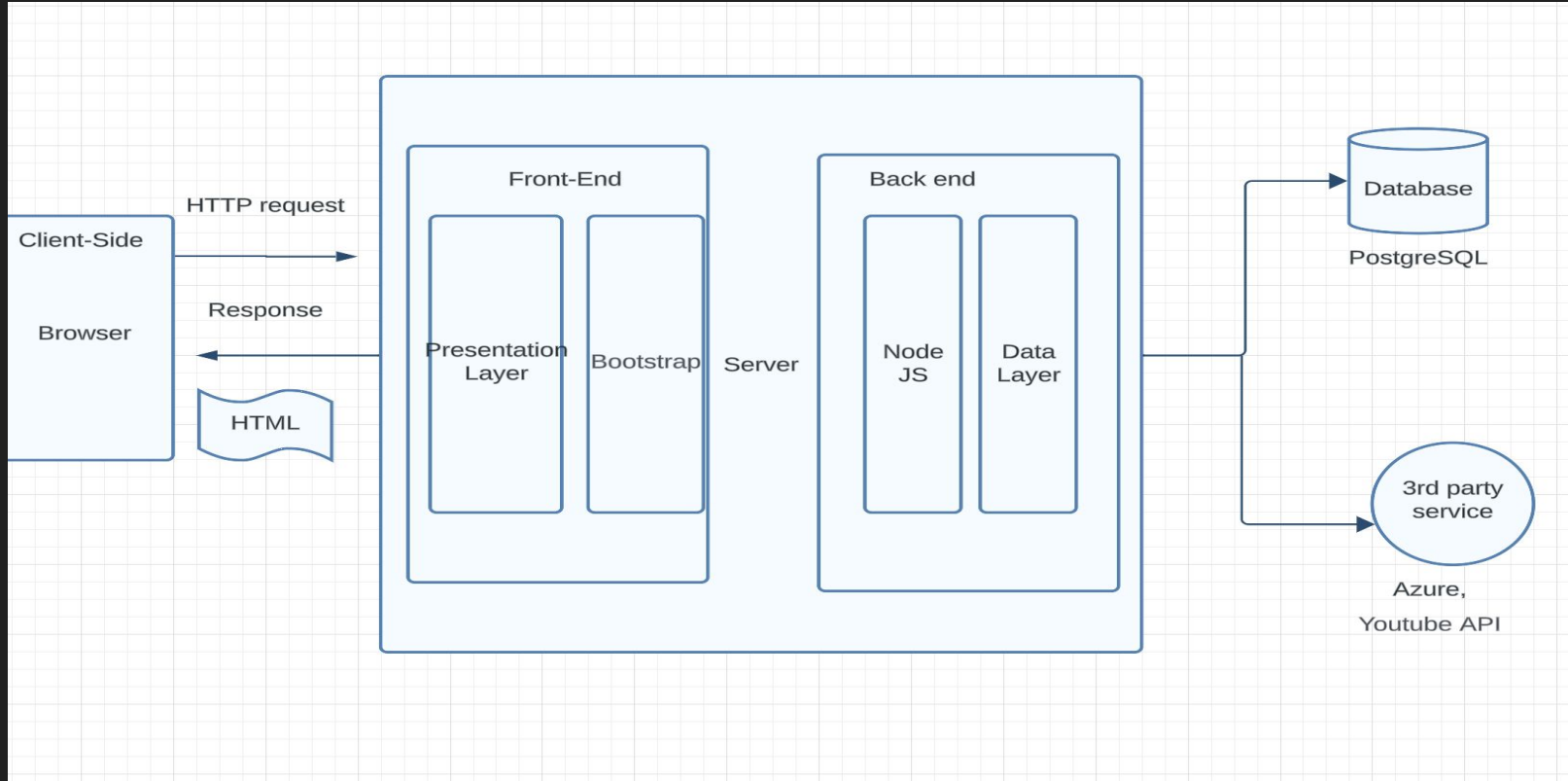
Description:

- Used to get data from YouTube
 - activities of an account, information about videos, etc

Rating: 4

- Needed for our project
- But some issues lower the rating
 - mainly, some parameters were inconsistent

Architecture Diagram



Challenges

1. Google Authentication
 - a. Make it work with handles
2. YouTube Data API Limitations
 - a. Use of Object arrays, functions, multiple calls
3. Test Cases Error Codes
 - a. Return status 400 when test cases fail in the POST APIs for relevant pages.

Future Scope

1. Implementing Google Authentication for login
 - a. Instead of asking for channel ids
2. QoL Improvements
 - a. Way for users to change their password
3. Adding more statistics
 - a. Most liked comment
 - b. Fun ones like most disliked video or comment

Demo

<http://recitation-13-team-07.eastus.cloudapp.azure.com:3000/login>