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Project Proposal: **myMediaStorage**

Summary

- What is your idea? What is your elevator pitch?

I would like to build a YouTube like media site. This progressive web application will allow users to search for and watch videos. They will be able to save these videos to their profile that they will setup when they first visit the application. They will also be able to upload their own videos to their profile. In the users profile they will be able to create albums which they can use to keep their media organize in any way they choose. What will set this apart from YouTube is that it will also allow the user to upload and store images to their albums as well.

Background

- Why do you want to create your project? What are the motivations and inspirations?

I use YouTube a lot and really enjoy it. Building this project, I am hoping to put everything I have learned together to create an application that is on the same level as YouTube. I am excited to see how all the pieces fit together. I would like to also use this chance to learn the MEAN stack. I have learned mongo db, express, and node.js in past classes. However, I would like to use this time to get some more practice with them, as well as dive a little deeper to see how they work together. I have not had a class that thought us Angular 2 or above yet, but I have tried learning a little in my spare time. So I would like to use this time to teach myself some more of this language and I it works with the stack. I have a job opportunity that will primarily be using Angular 4 so this is a great chance to get some practice to prepare me for this. I will use this to motivate me to create the best application I can. I will also try to improve the functionality of this application to do things that YouTube does not. YouTube only allows you to save and upload videos, so I thought it would be a great idea to improve upon this and allow the user to do the same with their images. I believe this would set my application apart from YouTube and would make a better user experience. I dislike how ads have taken over YouTube now. You have to watch a commercial before every video. They do this to force the YouTube or RedTube TV subscription down your throat. I am inspired to create a place where you can watch videos in piece without those aggravating advertisements. I

understand they are there to make them money, however it is not about money to me. I just want to build something that people enjoy.

Objectives

- What will you accomplish by creating this project?

Building this project, my goal is to build upon my knowledge of technology like Express, Mongo, and Node.js. I want to understand how they all work together to create applications. I want to also learn more about Angular 2 and above so I can learn the MEAN stack which I will possibly be using for my career. This is a very popular stack so it will benefit me greatly in my future. So I want to be as proficient as I can to set me apart from other programmers that do not work with this. I am also going to use this to learn about some plugins and modules that can make certain tasks easier to create. I have used a few like Passport but I know there are a lot more that are popular so my goal is to find which ones I really find helpful and easy to use. So my objective for this project is to become proficient with the MEAN stack and find tools to make my job creating applications a lot easier.

My objective for the project itself is to give the user a place to watch videos ad free. And to give them a place to keep their media all together and organized so they can access them at ease anytime they need them. There is nothing worse than trying to show someone a picture or video you seen and not being able to find it. This application will hopeful put a stop to that issue by allowing the user to organize it however they want so it will be easy for them to locate when they need them. Allowing them to store all types of media will also allow them to free up memory space on their cell phones that is normally filled with images.

Scope

- What are the features you will be including to create this project? Don't list but describe them.

When going to the site the user will land on the login page. If they do not have an account, they can click a link to a sign up form. After user has an account they can use their credentials to sign in to their account and will have access to the application. From their they can choose to search for videos of their choice or can choose one from a list of most popular videos that will be provided on the home page. There will also be an upload page that the use can go to that will allow them to upload their own media in a few different formats, such as mp3, mp4, .png, .jpeg, and .gif. This will allow the user more flexibility and make it easier to use. When viewing a video, the user may also choose to save the video. When the user uploads media or saves a video, this content will be saved

into an array which will be called an album. This album will be labeled miscellaneous, and it will store all their media on their profile page. On the user's profile page, they can edit their profile and view all their saved media. They may also create new albums which can be used to organize their media any way they choose. The user may also delete these albums, as well as any media they choose. However, they will be asked if they are sure of this through a popup. Lastly, there will be a contact page which will allow the user to fill out a form to ask a question, and the option to be contacted by phone or email, as well as in the morning or the evening.

Technology

- What will you build this with?
- Reasoning behind your technology choices

For this project I would like to use the MEAN stack. For Mongo I will use a site called mlab, which will make it easier for me to view and setup any tables I need. I have used Express in my past few classes, so that will come in handy because it is part of this stack. I have used Angular 2 a couple times and I really liked it. Typescript, which is a superset of JavaScript, is so easy to use and learn. It is also a very popular language that is used by a lot of businesses. I have an opportunity to work with Angular after school so this is a great time to get in some practice as well as broaden my knowledge of some popular technologies. Unlike React, Angular is consistent and overwhelmed with ready-made tools (Korotya, 2016 para. 5). It offers features like ng components which make components more reusable. And two-way binding makes it so easy to sync data between the view and the model. As for Node.js, we have had practice with it in past classes and I have also work with it in my spare time. The community for Node.js is huge, and there is a plugin or module for about any task you can think of. This speeds up the development process because you don't have to spend a lot of time writing complex code for a simple feature. There are ways to use some of these feature like components, ng2, and Typescript with React. For this reason, people may argue that React is a better choice. However, because of this reason less people know Angular. So be proficient in this will benefit me greatly since I already know React.

Possible Extras

If time permits I would like to add social login options to make a better user experience.

Reference

Korotya, E. (December, 2016). ReactJS vs Angular Comparison: Which is Better?
Retrieved from <https://hackernoon.com/reactjs-vs-angular-comparison-which-is-better-805c0b8091b1>.