

## Project Proposal:

Okay, so I originally wanted to do a pet-related app that could tie into my team's senior project... but I couldn't find API's that pulled in the types of data I had in mind, and I couldn't think of exactly what else I wanted to do that would be non-API.

So then I thought of two other ideas.

### 1. First Idea ⇒ The "Downtime" app:

Two of my favorite downtime activities are TV and music... although I also use music while I do other things, such as homework and housework -- two things with similar names but very different definitions!

So far as meeting the points criteria given on the instructions, I thought I could do that with:

#### a. 2 points ⇒ a TV-related API

I could use the TV side of the MovieDB again -- except instead of just pulling in your existing "Favorite" list or "WatchList", expand it by letting you do POST's and add things to them.

There is also a "pseudo-Netflix" API (since apparently Netflix doesn't have a public API). I was going to look also to see if, say, various services such as Amazon or Xfinity have API features -- but if not than one of those first two would work for this.

#### b. 2 points ⇒ a music-related API

There are a couple of music API's I was looking at, that let you GET or POST to playlists of your favorite music -- Deezer, Spotify, SoundCloud. Same kind of thing as with the TV part -- you could not only see your playlists, but add new music to them. And make new playlists, so that you can organize your music by mood or to go with a particular activity.

Also, in this project, there would be a possible 3rd API -- Genius. I often use their website to look up lyrics, it's one of my favorites for doing that, as they seem to be the most accurate and have a "Wikipedia-like" set up.

#### c. 2 points ⇒ MongoDB (unless the Firebase one you show us make me go "hey!")

I thought it would be cool if you could somehow save your favorite things to your own DB, so that you can access it without being on one of the given sites or accessing those API's over and over. I wasn't entirely sure how to implement this though, but thought it would be cool to look into and try.

I used MongoDB in Microservices class and it was cool! I made a fun db of my doggies just to see how things worked and get used to things and to try different things to see what they would do.

#### d. 1 point ⇒ SharedPreferences

I thought I could have the app so that you could set your environment from a set of theme choices, and then it would remember what you like the next time you use it.

Is there a way with this to change your mind later though, and then have it remember that?

**e. 1 point ⇒ Three or more Activities**

There would be a main/front/home page where you can pick what you want to do.

**f. 1 point ⇒ Menu Items**

You could also select where you want to go anytime, from a menu/navbar. There might be a use for a spinner in here somewhere, also.

**g. 2 points ⇒ a Fragment**

I was thinking for logging into your account with one or more of the services related to the API's?

**h. 2 points ⇒ possibly a 3rd API → Google Calendar!**

Put an event on your Google Calendar to remind you when your favorite TV show is going to air, that you want to watch live! Or to set your DVR. [=

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**2. Second Idea ⇒ The "Get Busy" App: *(see what i did there?)***

So another thing I do all the time, is use usually 4x6 index cards, for "to do" lists for each week. I like to have a main task, and then sub-parts for each task. Well, maybe not *\*every\** task, but many of them are made easier if they are divided into sub-tasks. Not stuff like "do the dishes", but homework definitely!

I thought this might be a cool thing to make an app for... I bet there are already several such things, but I want one that works how *\*I\** want it to work, to reflect how my brain organizes such things! [=

For meeting points criteria, here are my ideas:

- a.** Not sure how to apply points to this... but have fields so the user can input their "to do" list -- like a main thing and then sub-things, plus say the week you're gonna work on that, or the specific day you have to work on that... this could incorporate various input methods.

**b. 2 points ⇒ MongoDB (or Firebase?)**

The things they enter, would go into a MongoDB, so they could be retrieved later and either simply read, or edited, or deleted.

**c. 2 points ⇒ Google Calendar API**

Let users put their tasks on their calendar... they may not always want to do this -- I don't always -- but for really important things, they may want to make a Calendar entry.

**d. 2 points ⇒ Google Drive API**

So maybe this is just me and just because I'm in school... but it would be cool to let the user either make a shortcut to a particular file in their Google Drive (that's a thing you can use the API for, I looked) -- or even create a new file in their Google Drive (that's a thing too)

-- like sometimes when I think of a to-do project, I want to get the document at least set up right away.

**e. 1 point ⇒ Three or more Activities**

There would be a home/front/main page, and then one on which to enter "to do" items, and one on which to fetch "to do" items, and one to edit them? Or could that be done from the page where you fetch them?

**f. 1 point ⇒ SharedPreferences**

Same thing as with Idea One -- let the user pick between color themes for when they use the app.

**g. 1 point ⇒ Fragment**

Possibly for logging in.

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For both ideas, I was thinking I could also possibly/probably make use of **RecyclerViews** or **ListViews** with the **custom adaptors**, similar in idea to Assignment #3.

<https://rapidapi.com/blog/most-popular-api/#movie-database-imdb-alternative>

<https://rapidapi.com/blog/most-popular-api/#unogs>

<https://rapidapi.com/blog/most-popular-api/#deezer>

<https://rapidapi.com/serg.osipchuk/api/SpotifyUserAPI>

<https://rapidapi.com/brianiswu/api/genius>

<https://developers.google.com/calendar>

<https://developers.google.com/drive/api/v3/third-party-shortcuts>