

Submission Worksheet

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IT202-452-M2024 - [IT202] Module 5 Project Prep API Research 2024

Submissions:

Submission Selection

1 Submission [active] 6/25/2024 7:21:40 PM

Instructions

^ COLLAPSE ^

Overview video: <https://youtu.be/FPn8KnnJlw8>

For your semester project, you'll be building an application of your choice with the requirement of getting and using data from an API.

This little homework assignment is to get you thinking about your choice before we finish Milestone 1.

Milestone 2 and beyond will be generic requirements that all project options must follow but with their own respective API data and goals.

Even if the Milestones don't 100% match your vision, ensure you still attempt to follow them as closely as possible, even if your vision has other required features not asked for.

1. Create a new branch for this assignment's output file
2. You may need/want to make a placeholder file to add/commit/push so you can open your pull request early
3. Visit <https://rapidapi.com/collections> and find a valid API for your project
4. Things to look for
 2. API is active/works
 3. API is free
 4. Note the quota and whether limits are hard or soft
 5. API has relevant data you can fetch/pull
 6. Exclusions (not an exhaustive list): GPT/LLVM model/AI, memes, weather, data with minimal properties
 7. Safer Examples: cars, food, restaurants/businesses, real estate, products, sports, etc
 6. Ensure the choice is college-friendly and legal
5. Review the documentation of your chosen API and understand what data it offers, its usage

5. Review the documentation of your chosen API and understand what data it offers, it's your responsibility to ensure it has what you need for your project vision as this choice won't easily be changed later
6. You don't need to use the data at face value, you can do something fun/interesting with it like I will for my project (i.e., using the data for game mechanics)
7. Milestone Overviews
 8. Milestone 2 will typically have the standard CRUD operations for the data provided by the API
 9. Milestone 3 will typically require the data to be associated with a user in some form or another, keep this in mind when thinking about your project scope
 10. **Note:** You'll only be fetching data from the API, the goal is to work with your application data only which will be a mix of API entities and user-generated entities of the same type
8. Fill in the below deliverables
9. Grab the exported PDF at the end and add it to your local repository
10. Add/commit/push the completed file to this branch
11. Merge the pull request to dev
12. Create and Merge a pull request from dev to prod
13. Upload the output PDF to Canvas
14. Locally checkout dev
15. Pull the latest changes so you're up to date for a future branch

Branch name: Project-API-Research

Tasks: 5 Points: 10.00

API (8 pts.)

^COLLAPSE ^



^COLLAPSE ^

Task #1 - Points: 1

Text: Provide a link to the API's page/documentation

Details:

Link should be from rapidapi.com or directly from the API's provider

URL #1

<https://rapidapi.com/trailapi/api/trailapi/>



^COLLAPSE ^

Task #2 - Points: 1

Text: Explain what data you'll be using from the API and how you plan to use it in the project

#1) Mention what data and properties of the data you plan to



Explanation (required) ✓

Response

PREVIEW RESPONSE

I plan to utilize the API to retrieve available biking trails given a user's location (latitude and longitude) and a radius for searching. The API gives a list of available trails, their location, difficulty level, a description, and a thumbnail I can even use to display on the frontend.

#2) How do you plan to utilize the data for the scope of your



Explanation (required) ✓

Response

PREVIEW RESPONSE

Using the API data, I plan to create a website where users can find a trail to bike (given a location), and/or submit their own experience on it almost like a 4chan for trails. User's also have their own personal "TO DO" trails list or a "Favorites" trails list on their profile.

#3) Mention all the API routes/endpoints you intend to use and



Explanation (required) ✓

Response

PREVIEW RESPONSE

<https://trailapi-trailapi.p.rapidapi.com/trails/explore/> - Given a lat/long and a radius (miles), gives a list of biketrails in the area requested. Will be useful for searching for new trails and/or cataloging trails in the DB.
[https://trailapi-trailapi.p.rapidapi.com/trails/\(id\)](https://trailapi-trailapi.p.rapidapi.com/trails/(id)) - Given a trail ID (that is retrieved from the explore endpoint), it gives information on the specific trail (name, location, difficulty, thumbnail image, directions when you get there, features (ebikes permitted, restrooms, etc))

Task #3 - Points: 1

Text: API Info

#1) Provide details about the quota (quantity, hard/soft, refresh time, extra costs, etc)



Explanation (required) ✓

Response

PREVIEW RESPONSE

Map Data

10 / Day

- \$0.01 per request over 10

Regular Requests

500 / Day

- \$0.002 per request over 500

#2) What limitations do you need to keep in mind when interacting with the API?



Explanation (required) ✓

Response

PREVIEW RESPONSE


Definitely need to keep the requests for map data to a minimum (I don't even think I'll be using it), and keep the trail data fetching to a minimum since the limit for free usage is 500/day. Maybe think of a way to cache the trail data in the DB since it's not like the locations of trails will change.

Misc (2 pts.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Pull request for this assignment

 Details:

Should end in /pull/#

URL #1

<https://github.com/davidredziniak/dr475-IT202-452-M2024/pull/30>

Task #2 - Points: 1

Text: General Prompts (see checklist, copy/paste the prompts into the submission)

#1) Have you ever worked on consuming an API? If so, briefly



Explanation (required) ✓

Response

 PREVIEW RESPONSE

I've used multiple API's in various projects. For my own personal project, I've used Coingecko.com's API which allows me to fetch cryptocurrency data. For CS490 I've used the New York Times API to dynamically view articles on a React site, as well as the Spotify API for a site that recommends new music to visitors.

#2) Have you ever created an API that was consumed by



Explanation (required) ✓

Response

 PREVIEW RESPONSE

For my fullstack personal projects and CS491 capstone project there is usually a backend API that is required to be created. I have created numerous REST APIs that are made to communicate with the frontend.

#3) Do you have any other alternative API choices in mind in



Explanation (required) ✓

Response

 PREVIEW RESPONSE

<https://rapidapi.com/encurate/api/keto-diet> - Recipes for people that follow a keto diet. If the trails API doesnt work out, I will do a similar type of website but regarding recipes.

End of Assignment