Submission Worksheet

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IT202-450-M2024 - [IT202] Module 5 Project Prep API Research 2024

Submissions:

Submission Selection
1 Submission [active] 6/23/2024 11:24:00 AM

Instructions

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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, 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.)

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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/letscrape-6bRBa3QguO5/api/real-time-amazon-data

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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 use from the API (likely won't be all in some cases)

Explanation (required) ✓

Response

PREVIEW RESPONSE

The data I will be using from this API are the product price, as well as the original price, and product reviews. I will also be using some other data as it is needed but these are the basic things I will need. These properties will give me all of the informartion I need for my project.

#2) How do you plan to utilize the data for the scope of your project? What's your goal/vision?

Explanation (required) ✓

Response

PREVIEW RESPONSE

I plan to use this data to provide users with a list of all of the items that are most heavily discounted at the moment for maximum savings. The user will be able to view the items just as they would a regular amazon item and they will be directed back to the amazon website for purchase. The purpose of my application is simply to provide information about the highest rated items with the biggest discount currently active.

#3) Mention all the API routes/endpoints you intend to use and what criteria will be required for them if any (beyond the API key)

Explanation (required) ✓

Response

PREVIEW RESPONSE

I will first need to use product search by using "/search/{query}" in order to be able to search for certain types of products by keywords. I will also need to use product details with "GET /product/{asin}" in order to retrive information about the products such as current price, original price, and the reviews. Lastly I will use the product offers with "GET /product/{asin}/offers" to get the different offers for different products.

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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

There are three different types of plans for this API,

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

Explanation (required) ✓

Response

PREVIEW RESPONSE

I need to keep in mind that I will only be able to make

however I will be using the basic plan as the other ones are paid. The basic plan has a request limit of 1000 requests per hour. If this limit is hit there will be a too ma y requests error and there is an option to upgrade your plan.

1000 requests per hour with the free basic plan of this API. If I go beyond this limit then my application will no longer be able to make any requests.

Misc (2 pts.)

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COLLAPSE

Task #1 - Points: 1

Text: Pull request for this assignment

Details:
Should end in /pull/#

URL #1
https://github.com/jordand2003/jed56-it202-450/pull/25

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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 explain.

Explanation (required) ✓

Response

PREVIEW RESPONSE

I have worked on consuming an API in the past in a personal project called Tune Trends. In this project I used to Spotify web API. I used this API to allow users to sign into their spotify account and view their top listened to artists over a 3 month, 6 month, and 12 month period. This is similar to spotify wrapped, however instead of viewing it once a year they are able to view it at any time and can always know who their top artists are. There is also a feature to generate a playlist in the users account basic on the top songs of their most listened to artists.

#2) Have you ever created an API that was consumed by your own application or consumed by other people?

Explanation (required) ✓

Response

PREVIEW RESPONSE

I have created an API that was consumed by my own application but it was never published and not really completed. I created an api for an application where students can upload code snippets and people can comment on their post guiding them in the right directiona nd helping them out. The API that I created collected the data of the posts, comments, and users.

#3) Do you have any other alternative API choices in mind in case this doesn't work

out? List them if you do. (Note: it's a good

Explanation (required) ✓

Response

PREVIEW RESPONSE

https://rapidapi.com/airhob/api/flight-bookings/playground/5920bd89e4b0bba971feb781
https://rapidapi.com/leopieters/api/iata-and-icao/playground/5a1c3020e4b0d45349f76c38
https://rapidapi.com/tank01/api/tank01-mlb-live-in-game-real-time-statistics/playground/apiendpoint_13bc2798-0778-4d22-8f7b-55eada74a7dc

End of Assignment