

Submission Worksheet

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

Submissions:

Submission Selection

1 Submission [active] 6/27/2024 10:56:42 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. Doing the demonstration for each API should be a good idea to test it off with

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 ^

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/s.mahmoud97/api/zillow56/playground/apiendpoint/6-3673167348bd016->

URL

<https://rapidapi.com/s.mahmoud97/api/zillow56/>

+ ADD ANOTHER URL

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

by using the zillow API for my web project, i can access property details like address, price, bedrooms, bathrooms, and square footage. i can also get valuation information like the Zestimate, last sold price, and tax assessment details. the API also provides home features and nearby data including school ratings, property images, and market trends such as price history and time on market. these data properties can help create a detailed information of real estate for the site.

#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'm going to use data from the Zillow API to make a simple, easy-to-use tool that helps people decide where to live. The data will show detailed info about properties, like prices, features, and history, all on a map. The goal is to create a tool that not only shows property info but also gives insights into neighborhoods by adding info about amenities, schools, and market trends. Users can compare neighborhoods, check property histories, and see market trends with visual charts.

#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

some endpoints that would be needed are the property's ID or address, as well as specifying the type of data or filters for property features in order to get price, features, and history or the property. another requirement would be the neighborhood name or area coordinates. This provides information about neighborhood data, including market trends and local amenities. property ID or address along with date range or historical data requirements are needed for zillow's estimated property values. parameters such as location (city, zip code), price range, and property type. Additional filters might include the number of bedrooms or bathrooms. This endpoint retrieves a list of properties available for sale or rent.

^COLLAPSE ^

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 is hard limit of 30 requests per month and 1 request per second. This is a hard limit bc I cannot exceed these limitations unless i plan on upgrading to the next level plan. refresh time after 1 request is 1 minute. the quota resets on a monthly basis, and any unused requests from one month do not carry over to the next

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



Explanation (required) ✓

Response

PREVIEW RESPONSE

there is hard limit of 30 requests per month and 1 request per second, so every minute i am allowed one request. if i do 30 requests in a row i am done for the month. This is a hard limit bc I cannot exceed these limitations unless i plan on upgrading to the next level plan. Although there is a limitation, it is large enough to be able to pull data it. the quota resets on a monthly basis, and any unused requests from one month do not carry over to the next. if the project requires frequent data updates or multiple endpoints, i might need to prioritize which data is most essential. I should combine or optimize my API requests to use fewer of the monthly quota. so if i need information on multiple properties, I should batch the requests into one.



Misc (2 pts.)

^COLLAPSE ^



^COLLAPSE ^

Task #1 - Points: 1

Text: Pull request for this assignment

Details:

Should end in /pull/#

URL #1

Missing URL

URL

+ ADD ANOTHER URL



^COLLAPSE ^

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 never worked on consuming an API. This is my first time finding out what an API really is and what it can be used for. After much research I understand why you would consume one when building an application.

#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 never created an API. It seems like an interesting task as you would have to clearly know your endpoints and create requests to receive information for each endpoint defined.

#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 idea to have a backup)



Explanation (required) ✓

Response

 PREVIEW RESPONSE

I have an alternative API in mind which would be a recipe API. This would be a site where you can search for specified food recipes tailored towards what users are looking for in particular. the API I would use is spoonacular because it offers a wide variety of recipes.

End of Assignment