Submission Worksheet

CLICK TO GRADE

https://learn.ethereallab.app/assignment/IT202-008-S2024/it202-project-prep-api-research-2024/grade/njz5

IT202-008-S2024 - [IT202] Project Prep API Research 2024

Submissions:

Submission Selection

1 Submission [active] 3/25/2024 10:23:59 PM

Instructions

COLLAPSE

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.

- Create a new branch for this assignment's output file
- You may need/want to make a placeholder file to add/commit/push so you can open your pull request early
- Visit https://rapidapi.com/collections and find a valid API for your project
  - Things to look for
  - API is active/works
  - API is free
  - Note the quota
  - API has relevant data you can fetch/pull (something like a GPT/LLVM model/AI integration, memes, weather likely won't fulfill the requirements as a valid API choice, look for things that have a decent number of properties)
    - Examples: cars, food, restaurants/businesses, real estate, products, sports, etc
  - Ensure the choice is college-friendly and legal
- 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
  - 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
- The Milestones beyond Milestone 1 will typically have the standard CRUD operations for the data provided by the API, later Milestones 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
  - 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
- Fill in the below deliverables
- Grab the exported PDF at the end and add it to your local repository
- Add/commit/push the completed file to this branch
- Merge the pull request to dev
- Create and Merge a pull request from dev to prod
- Upload the output PDF to Canvas
- Locally checkout dev
- Pull the latest changes so you're up to date for a future branch

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/akshithp111/api/books-api7/

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

Checklist

*The checkboxes are for your own tracking

#	Points	Details
#1	1	Clearly mention the data/entities to be used from the API
#2	1	Clearly mention how the data will be used in the scope of the project. What's your goal/vision?
#3	1	Include the API routes you intend to invoke for this information (most API's will require the usage of a few endpoints to gather all the necessary data)

Response:

I want to create a virtual library where users can search for books, track whether they want to read or have read certain books, and maybe give each book a rating as well. It'll be similar to services like Trakt or Letterboxd, but for books. There are many different options to search for books. The main endpoint would probably be title, but I can see author, rating, and genre being used as well for more specialized search results. I may incorporate random too for a fun side feature. From the results, I think cover, title, and author are going to be the most important features. I can also see myself using plot, rating, and pages for extra information to be displayed. Each book also has a unique id, so I'd probably keep track of that information for database queries.

Task #3 - Points: 1

COLLAPSE

Text: API Info

Checklist *The checkboxes are for your own tracking

#	Points	Details
#1	1	Mention what the quota is for your chosen API and how frequently it refreshes if at all (we're aiming to keep things free)
#2	1	Mention any other limitations or things to keep in mind while interacting with the API

Response:

The quota for $0 is a hard limit of 25,000 requests per month with a rate limit of 1,000 requests per hour, so the quota should not be an issue. If for some odd reason I would have to upgrade to the next tier, it only costs $3 per month. The API seems popular and reliable, but the latency being around 3,500 ms is slow compared to most other APIs. For this type of project, I don't think the delay matters too much because it only affects how long it takes to receive the initial search results.

Misc (2 pts.)

COLLAPSE

Task #1 - Points: 1

Text: Pull request for this assignment

Details:
Should end in /pull/#

URL #1
https://github.com/NickZub/njz5-it202-008/pull/17

COLLAPSE

Task #2 - Points: 1

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

Checklist *The checkboxes are for your own tracking

#	Points	Details
#1	1	Have you ever worked on consuming an API? If so, briefly explain.
#2	1	Have you ever created an API that was consumed by your own application or consumed by other people?
#3	1	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)

Response:

I have worked with a handful of APIs before, but only for testing purposes and small personal projects. The main one I

I have worked with a handful of APIs before, but only for testing purposes and small personal projects. The main one I am using right now is a recipe API for my CS 490 mobile application project. I have an alternative API choice here. It doesn't have the extra features I want like plot and ratings, but it has the core components of title, image, and author and it has diverse endpoints to use.

End of Assignment