

Submission Worksheet

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

Submissions:

Submission Selection

1 Submission [active] 6/24/2024 11:08:38 PM

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, 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.)

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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/api-sports/api/api-basketball/playground/apiendpoint_3f682018-90b4-47a0-b1ea-e0c3af025afb



^COLLAPSE ^

Task #2 - Points: 1

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



Explanation (required) ✓

Response

PREVIEW RESPONSE

My plan right now is to create some sort of Basketball Statistics Application. I plan to use data from the standings, games, and teams statistics endpoints. From the standings endpoint, I will use the league, season, team, and their standings information. For the games endpoint, I will use the date, league, season, and team to get game schedules and scores. From the teams statistics endpoint, I will use the season, league, and team to get detailed statistics like points per game, rebounds, and assists. I'm gonna use this data to help me display current standings, upcoming games, and other statistics for each team.

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



Explanation (required) ✓

Response

PREVIEW RESPONSE

I plan to use the data to create a comprehensive Basketball Statistics application. My goal is to provide users with real time updates on team standings, game schedules, and team statistics. I'm gonna display key metrics like wins, losses, and points per game, and users can easily track their favorite teams. I also aim to include features like upcoming game details. I want to create something that will help users make informed decisions for fantasy leagues and betting. My vision is to make the application user friendly and visually appealing.

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



Explanation (required) ✓

Response

PREVIEW RESPONSE

I'm going to use the following API routes/endpoints for my project: GET /standings, GET /games, and GET /teams statistics. For the GET /standings endpoint, no additional criteria are required. For the GET /games endpoint, I will use the date criterion to filter upcoming games. For the GET /teams statistics endpoint, I will use the team_id criterion to get specific team statistics. These endpoints will allow me to fetch the necessary data for team standings, game schedules, and detailed team statistics.

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

The API has a free tier with a limit of 10 requests per minute. This is a hard limit, meaning I cannot exceed it. If I need more requests, I can upgrade to a paid plan. The paid plans range from \$10 to \$20 per month, offering higher request limits. The requests quota refreshes every minute.

#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 the API only supports GET requests. I can only use the specified headers: x-rapidapi-host and x-rapidapi-key. The free tier has a hard limit of 10 requests per minute. If I go past this limit it will require upgrading to a paid plan. Some frameworks may add extra headers that must be

removed to avoid errors. The API key must be included in all requests

Misc (2 pts.)

^COLLAPSE ^

Task #1 - Points: 1

Text: Pull request for this assignment

Details:

Should end in /pull/#

URL #1

<https://github.com/VikShah/vs53-it202-452/pull/14>

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 haven't worked on consuming an API before. However, I have a basic understanding of how APIs work and their importance in web development. I have learned about HTTP requests and responses in my coursework. I am excited to gain hands on experience with this project and learn how to integrate external data into my application.

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



Explanation (required) ✓

Response

PREVIEW RESPONSE

I haven't created an API that was consumed by my own application or by others. However, I have studied the fundamentals of API design and development in my coursework. I understand the basics of creating endpoints and handling requests and responses. I'm looking forward to applying this knowledge in future projects and gaining experience in API development.

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



Explanation (required) ✓

Response

PREVIEW RESPONSE

Yes, I have an alternative API choice in mind. One option is the API-FOOTBALL for football data. This API also offers free access and has good documentation. I am also very interested in things like the NFL so I think this would be another entertaining project idea for me. I like this backup because it makes sure that I can still complete my project if the original API doesn't work out

End of Assignment

