Fetch Rewards Coding Exercise - Backend Software Engineering

Documented by:

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Designed a web service that accepts http requests and returns responses validating if the entered word is a “Pyramid Word” or not.

I have used Express to implement this task. I have prior experience using spring boot for similar tasks but find node.js more flexible and seamless for me to use. I can complete this task using spring boot if it’s required.

Please make sure you have the following services to execute this code:

1. npm and node.js Downloading and installing node.js and npm

2. Postman Postman installation

After installing Node.js and Postman, please follow the following steps:

- Clone/download the project file.
- Open the file with code editor like Visual Studio Code.
- Type “npm install” in the terminal to install the necessary dependencies.

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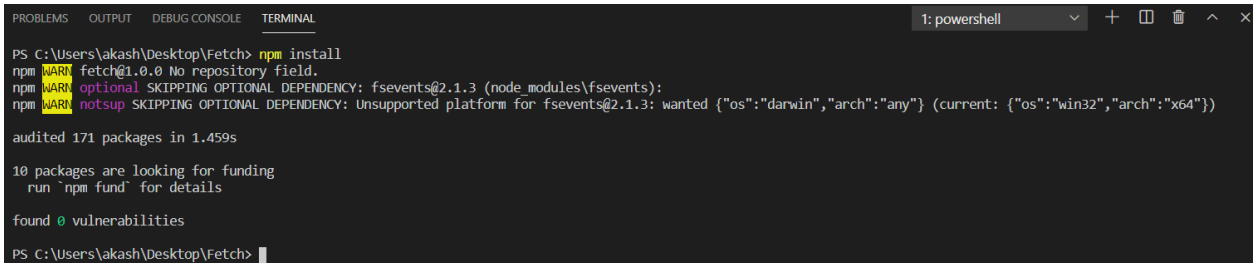
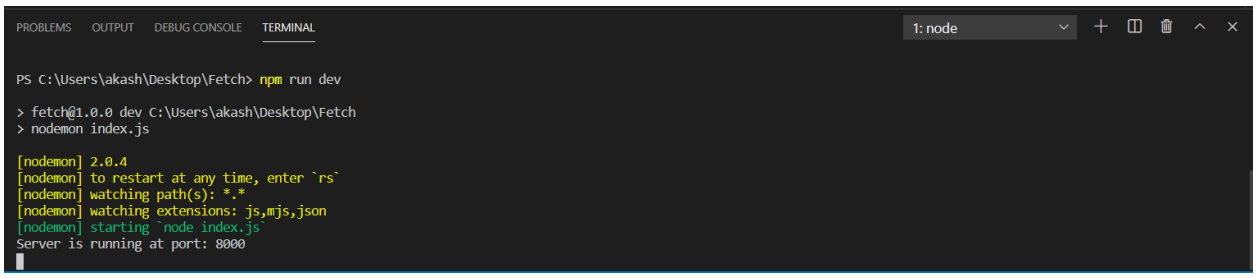
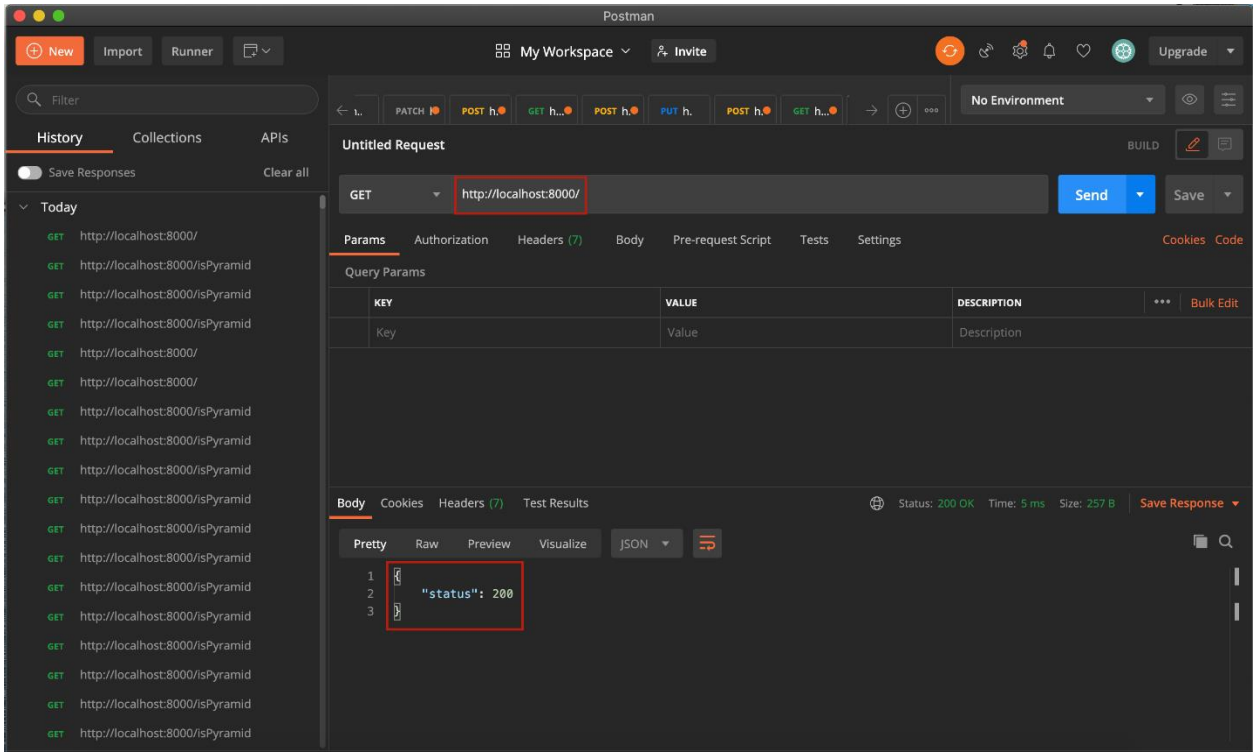


- Use “npm run dev” to execute the code.

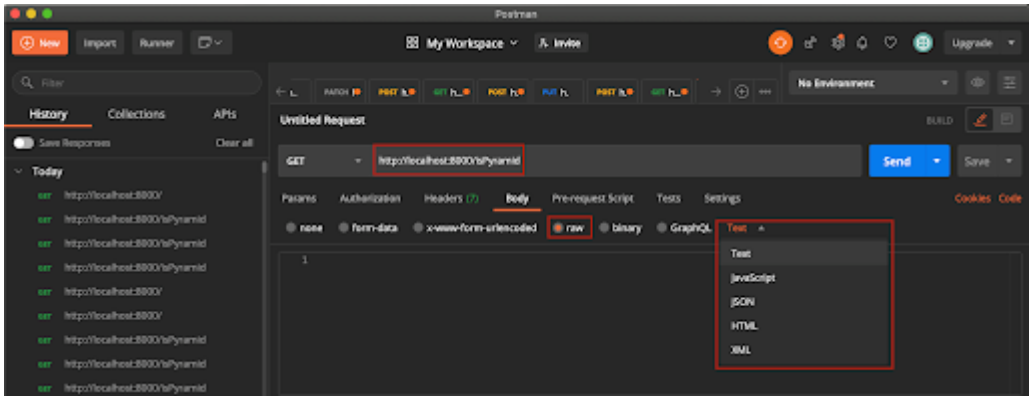


Once the server has started, please go to Postman to check the service.

- Type http://localhost:8000/ and check if we get “status: 200” for successful establishment of connection.



- Then type http://localHost:8000/isPyramid. Select “raw” and “text” for the input type and provide a text input. This can be implemented using json as well, but I have chosen text input as it is even simpler for the user to test.



- Give any word of your choice to check if that is a pyramid word or not. The following screenshots shows different testcases.

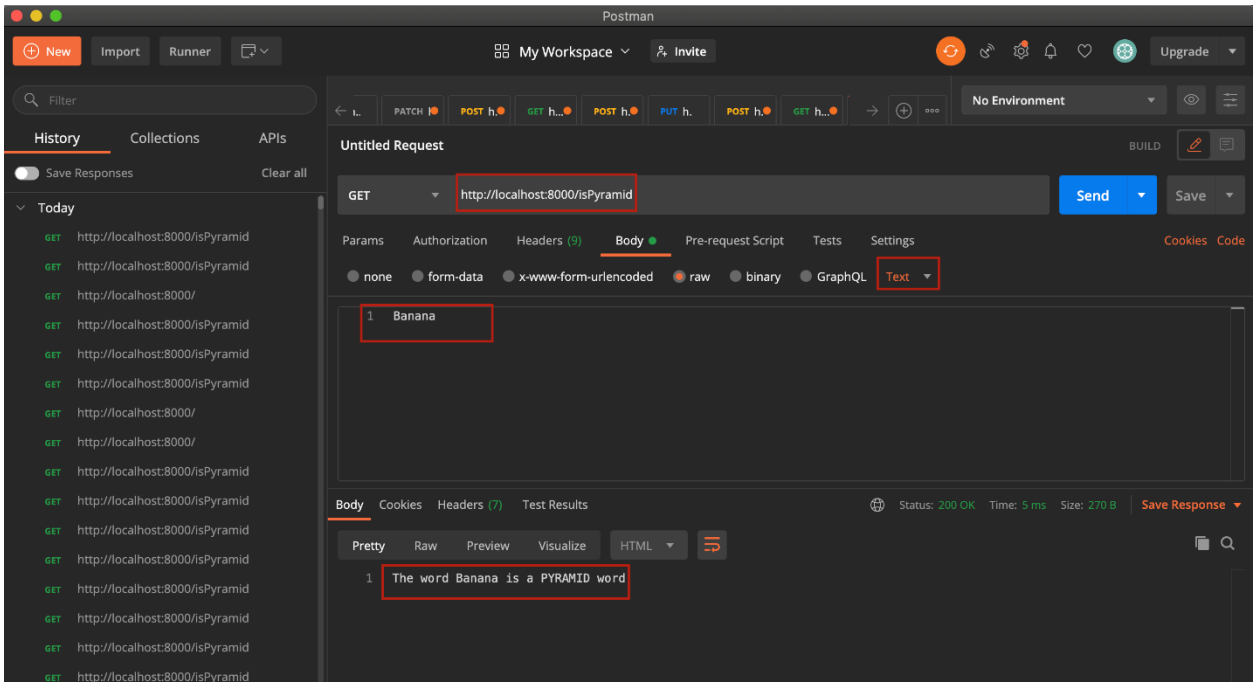


Figure 1: “Banana” is a pyramid word.

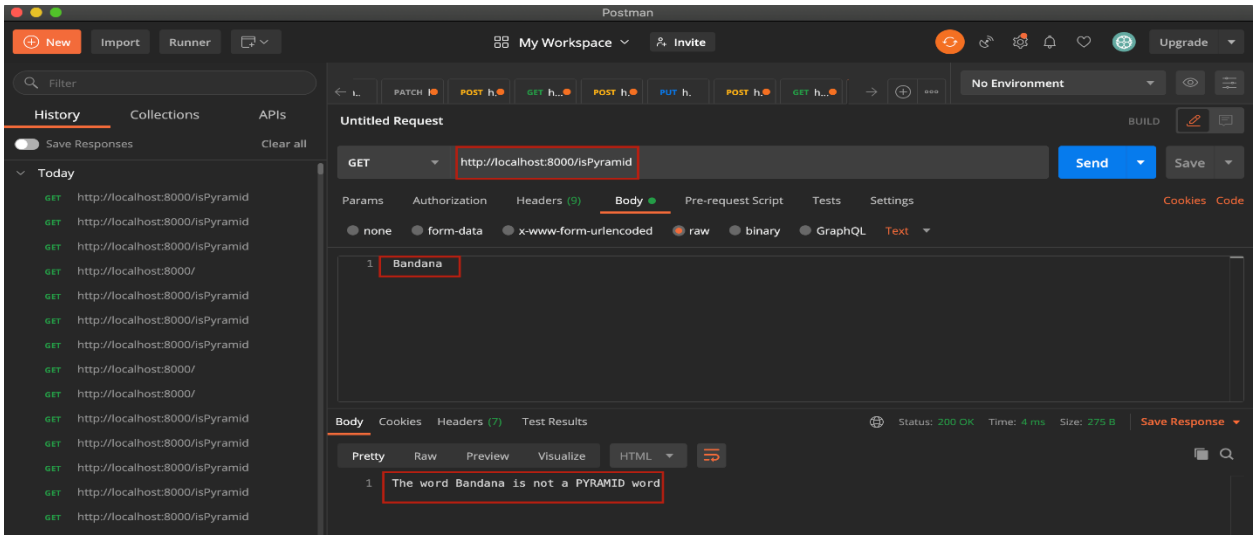


Figure 2: Bandana is not a pyramid word.

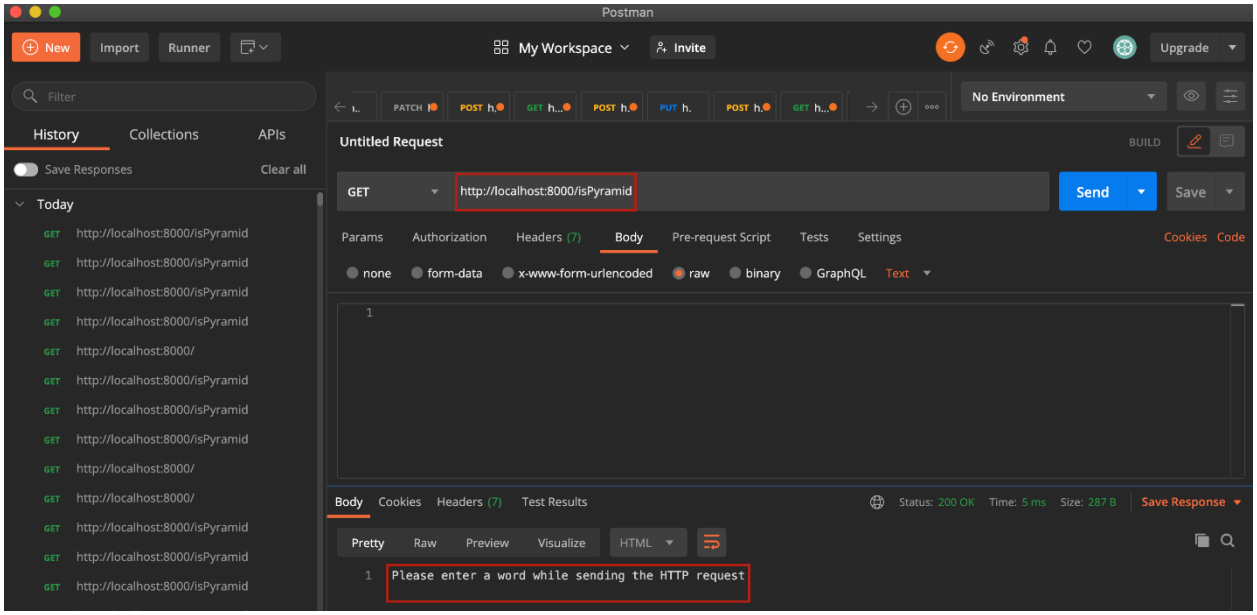


Figure 3: When no input in given.

When there is no input given, there is a message displayed asking the user to enter a text while requesting for a response. This condition is handled using a **catch block.**

Please feel free to contact me if any necessary changes are to be made or if any problem encountered during the execution.