**Question 1**

1. Please read the documentation of the GitHub API at <https://developer.github.com/v3/>.

Suppose that you worked with a team that was tasked with implementing this specification.

• What concerns would you have from a testing perspective?

• How would you go about tackling the QA for this work?

• What sort of tests would be worth describing or worth automating?

• What tools would you use?

Please select an endpoint to test and implement a test suite for that endpoint. You may

choose a tech stack of your choice for the tests. Provide the URL of a public Git repo that

contains the tests. Include documentation in your repository that contains your written

answers to the questions above.

**Answers**

What concerns would you have from a testing perspective?

1. Authentication and authorization would be a concern.
2. Test data like sample repositories should be available for the endpoint to return data for validation.

How would you go about tackling the QA for this work?

1. I would study the documentation and clarify any questions from business and dev teams and also understand project schedule and QA timelines.
2. I would create test suite with positive and negative scenarios in a test management tool or directly create an automated collection in Postman.
3. I would prioritize the test cases and review with team.
4. Data creation. I will make sure there are some repositories etc for the get endpoint in the test environment.
5. Once the release is available to QA, smoke test followed by detailed SIT and report if any bugs.

What sort of tests would be worth describing or worth automating?

1. Tests worth automating would be related to Authentication, client errors, HTTP redirect, pagination depending on resources and timelines.

What tools would you use?

1. I used Postman for this assignment.
2. We could also use Httpclient and java to create class files.
3. For continues integration we can use webdriverio with npm module of postman called newman.

Below is the documentation from postman for the endpoints in test.

<https://documenter.getpostman.com/view/5037459/RWThUgRE>