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.
a.What concerns would you have from a testing perspective?
Ans-
= >We have to focus that what is in and out from testing perspective and API testing should be
started from design phase itself.
=>We have to clarify that what are the environment and platform that we will be using during
testing.
=> What is the purpose of specific API Testing

b. How would you go about tackling the QA for this work?
Ans:
=> We must identify all the deliverables out of our API testing.
=>Any environment technology or platform related dependency must be resolved before we
start to test API.
=> We must focus about entry and exit criteria.
=> We must create proper test data in different format like to test webservices
=>If there is some dependency on client in creating test data,take either guidance to generate
test data or ask appropriate client data to test the API.

c. What sort of tests would be worth describing or worth automating?
Ans- From automation perspective our approach should be, that identify scenarios which are
repetitive by nature i.e if we are getting same kind of response or similar pattern response for
particular end point request,for all these kind of response we can automate.

d. What tools would you use?
Ans:
=>We can use RestAssured framework for automation scenarios.
=>We can use SOAP UI for manual tesing as well as can develop automate framework using
SOAP-UI along-with with Groovy Scripting. We have to identified cases which we can automate
using SOAP-UI alone or in combination of Groovy Scripting.

**e. 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.**

Ans- I have uploaded "RestAssuredAutomationFramework" on GitHub, please look into it.
ReadMe file cantinas some description about it.For more details I would be happy to explain.

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3. Assume you are part of an engineering team that is building a loyalty app for a large

retailer.You are in a meeting in which the following stories are being discussed by the

product owner and engineering team:

a. As a customer, I want to enroll in the loyalty program.

b. As a program participant, I want to check my balance of reward points.

c. As a program participant, I want to redeem some of my points for a reward.

Describe how you might participate in this meeting to ensure that the development work

for these stories can be demonstrated to the product owner. What are your areas of

concern? How would you address them? Write test cases for any one of the stories

mentioned. Provide your answers as a PDF.

Ans:

=>**For demonstrating the product owner and area of concern ->**To demonstrate product owner we must follow simplest approach as product owner may or may not be technical person, in general also we must keep our retail program as simple as possible so that can be explained to any one easily.

=>We should prepare strategy for our reward points that how and in which form reward points will be credited i.e in cash, discount on next purchase, coupon code etc.

=>We must plan that how we will display past(already availed) reward point to our customer. We must finalize plan for that which mechanism we will use like we will show availed reward history through detail reward source point or by date etc.

=>User must get push notification if his/her reward point is going to be expired.

=>User should get push notification that you have n number of reward point you can redeem it or you can earn extra reward point, by doing this you are keeoinh user alive to think about using your app services.

Test Case for a customer, I want to enroll in the loyalty program.

=>Just enter valid user email id to get on-board in loyalty program(assuming we just need email id to enroll in loyalty program).

=>Verify whether user get email notification once provided valid user email. User must get an email with OTP(one time password) or any unique code.

=>Copy and paste OTP in the box/text link which we got just after entering valid email id to get enroll in loyalty program.

=>After entering valid OTP/Unique code user must be onboarded.

=>Verify whether user got promised credit point if any just after successful enrolment.

=>User must get all the credit point if any is promised after referral to friend or other new users.

=>If referral program is after 1st successful transaction of new user, we must verify that reward point to referrer should be credited only after referee perform 1st transaction.