Technical Test – Quality Engineer HMH

Test Requirements

The Document of rest api -
The endpoint is- https://favqs.com/api

The task is to code a suite of tests that validates the main functionality of the FAV QUOTE and LIST QUOTES endpoint. You can choose any language and technology you feel most comfortable with (bonus points for Java/Javascript). You do not need to test every use case, just the main functionality.

Please provide
1. A project that we can run which demonstrates how you validated the endpoint. Please document your code as you see fit to make it easily understandable.
2. Instructions on how we can compile and run the Scenarios.
3. Briefly mention some of the scenarios that you did not cover.

Test Plan

1-Overview

This project is design to test the functionality of two REST endpoints.

Functionalities are -
1- FAV QUOTE
2- LIST QUOTES

2- Test Strategy
The test strategy that I am going to adopt in this testing is Functional Testing.

3-Test Deliverable
1-Document explaining the project.
2-Repository link of GitHub.

4- Tools

      1-Postman for testing the endpoints.

      2-JavaScript for writing the test script.

Test Scenarios

      1.Checking the functionality of FAV QUOTE

      2.Checking the functionality of LIST QUOTE

Instruction to Run the Project

Aim

Validates the main functionality of the FAV QUOTE and LIST QUOTES endpoint.

Overview

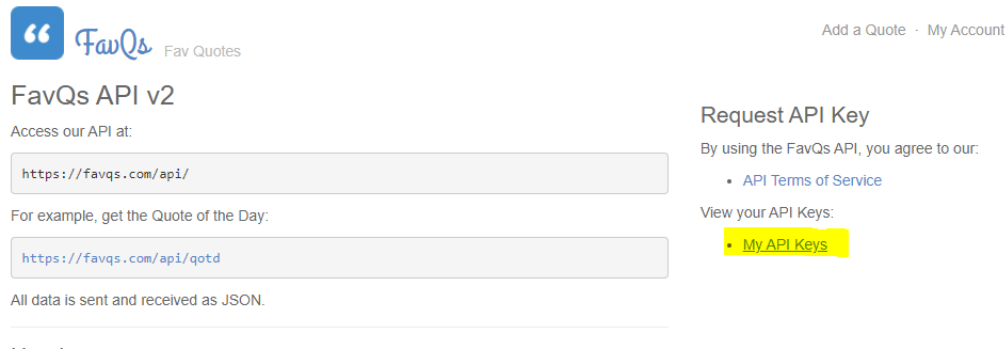The scope of this test is to ensure major functionalities of the module.The plan is to ensure the functionality by following a happy path.

Pre-requisites

1. The link should be accessible https://favqs.com/api
2. Create a user account of favQ.com
3. Install and Setup the postman.
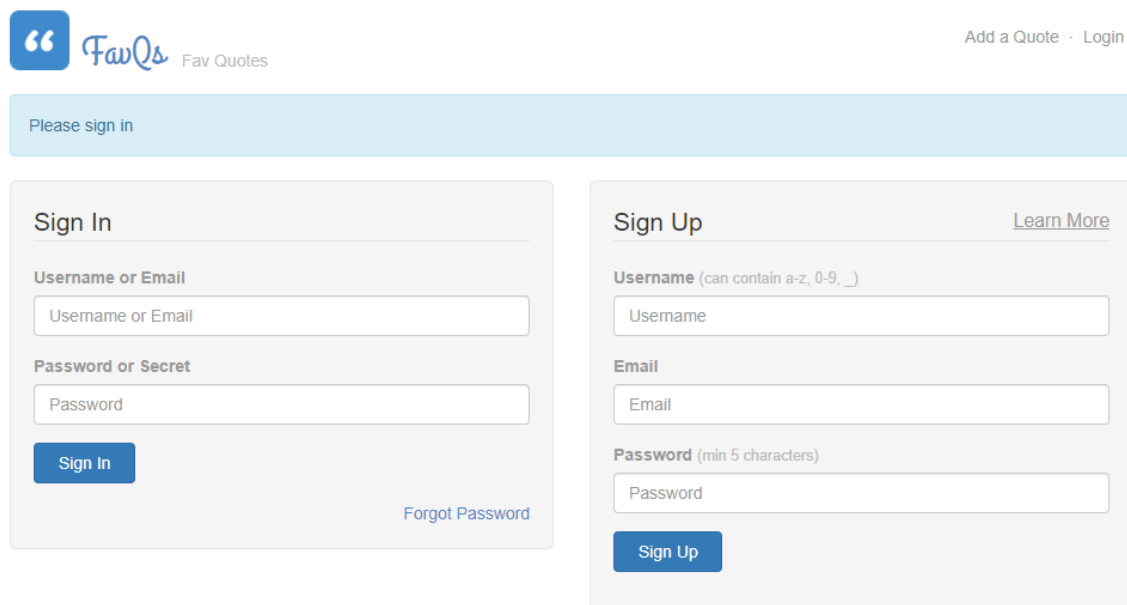4. Generate API key by using this link https://favqs.com/api

      Way to generate the api key-

      1- Visit the link https://favqs.com/api

2- Click on My API Keys link

FavQs Fav Quotes

Add a Quote · My Account

FavQs API v2

Access our API at:

```
https://favqs.com/api/
```

For example, get the Quote of the Day:

```
https://favqs.com/api/qotd
```

All data is sent and received as JSON.

Request API Key

By using the FavQs API, you agree to our:

- API Terms of Service

View your API Keys:

- My API Keys

3.Sign In using the given credential (email- testing123@gmail.com password-
Tesing@123)

Or you can Sign up using your own details

FavQs Fav Quotes

Add a Quote · Login

Please sign in

Sign In

Username or Email

Username or Email

Password or Secret

Password

Sign In

Forgot Password

Sign Up

Learn More

Username (can contain a-z, 0-9, _)

Username

Email

Email

Password (min 5 characters)

Password

Sign Up
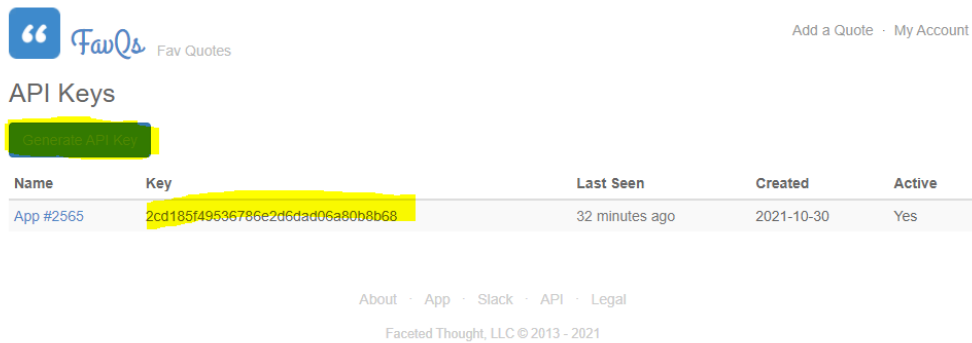
4.After creating an account again come back to this link and click My API Keys

FavQs Fav Quotes

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For example, get the Quote of the Day:

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Request API Key

By using the FavQs API, you agree to our:

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View your API Keys:

- My API Keys

5.After clicking on My API Keys - Following Page will open. Click on Generate
API key

Button and copy the newly generated API Key
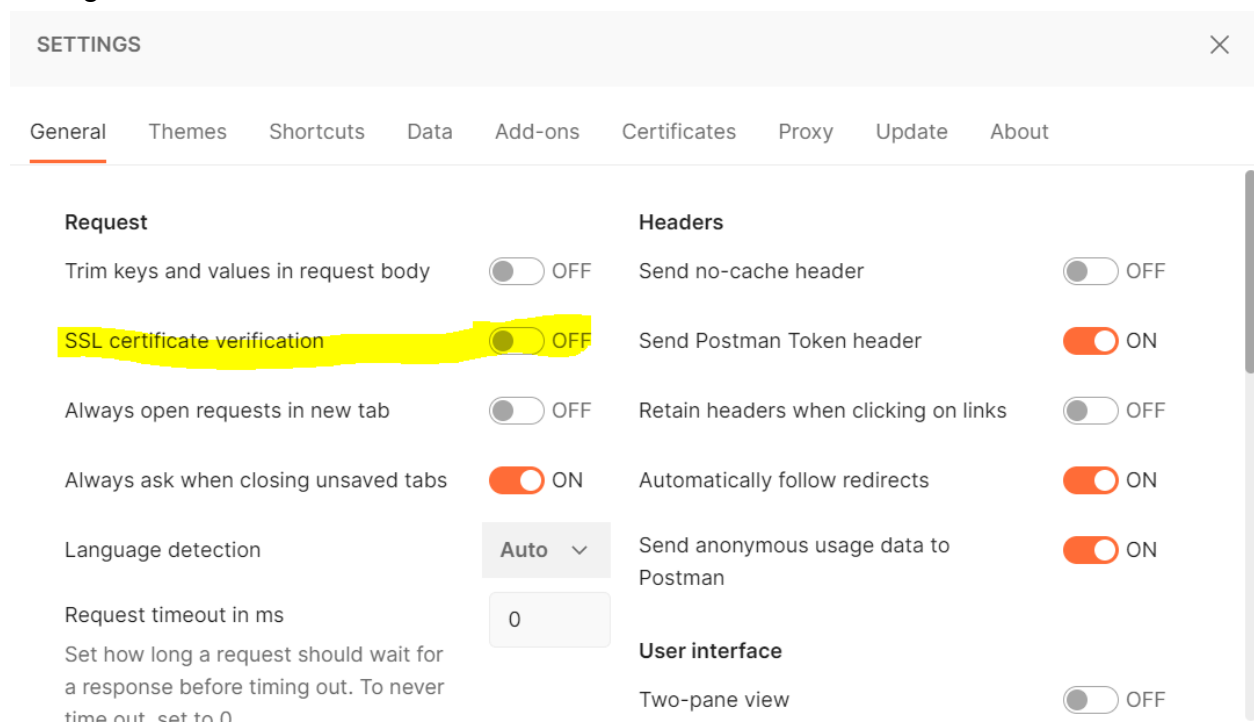
Instruction to run the postman collection

1.Install Postman Version 8.12.2 or higher.
2. Open postman and,If required turn off SSL certification verification by going to setting
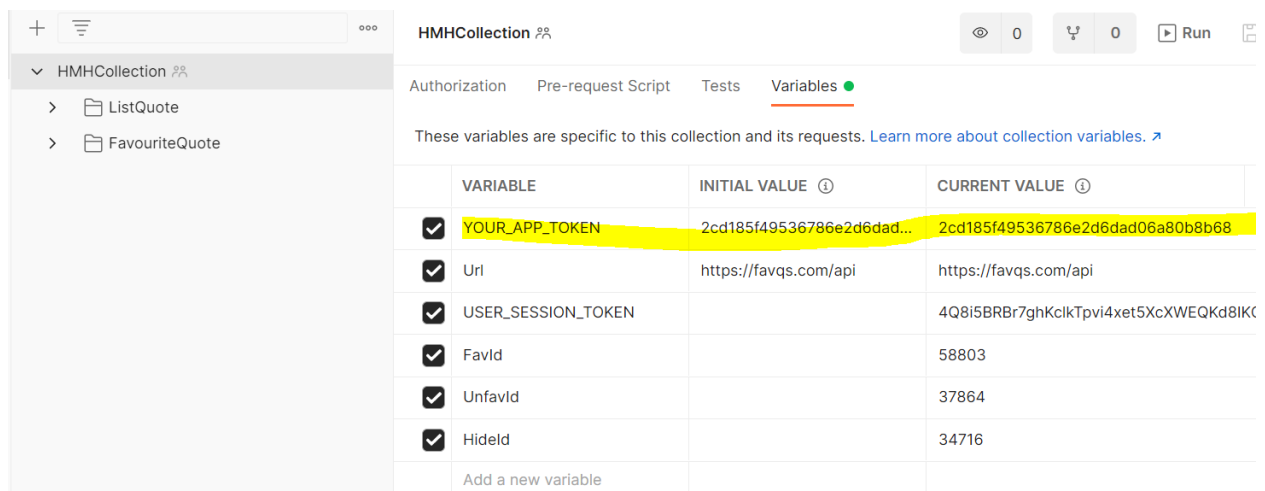
3.click on file->import and upload the given collection
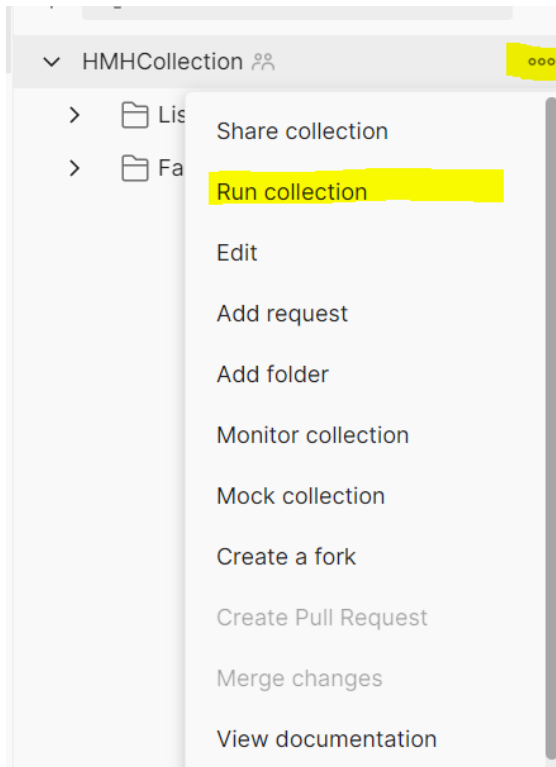HMHCollection.postman_collection.json file
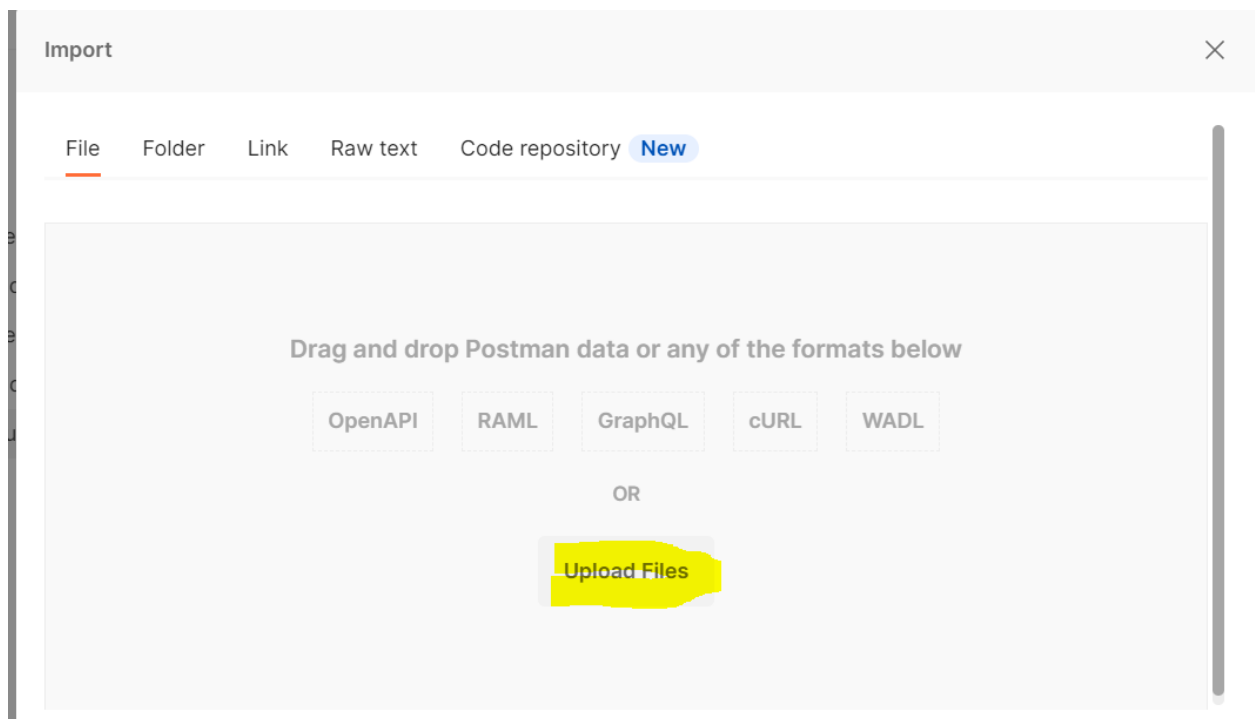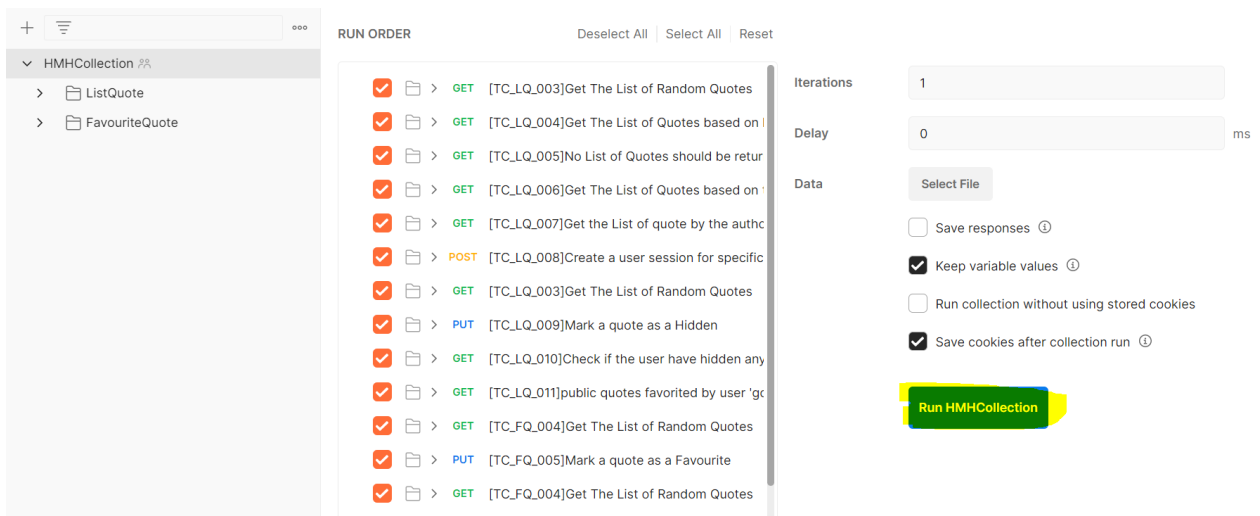

4.Refer pre-requisite to generate the API key
5.Go to HMHCollection collection level variable and Paste the Generated API key in
Initial value and Current Value of the variable YOUR_APP_TOKEN

6.CLick on the 3 dots next to HMHCollection and click on Run Collection

7.Click on Run HMHCollection

Scenarios not covered

1.I wanted to check whether a favourite quote already marked as favourite shows any message as " already added to favourite". But the fav endpoint didn't display any message and again marked it as favourite.Same was the scenario for unfavourite.
So I was not able to check unhappy path for Fav and Unfav endpoints

2. I was not able to cover scenarios which required PRO user session as it was paid version for 1 year subscription
Following are the request which I was not able to validate

Get the private quotes of the current user (pro session required):
GET https://favqs.com/api/quotes/?private=1

Search for private quotes of the current user session that contain the words "little book":

GET https://favqs.com/api/quotes/?filter=little+book&private=1