A close up of a logo

Description automatically generated

A screenshot of a phone

Description automatically generatedCloud computing has introduced a whole new world of connectedness. This has led to APIs driving more and more software systems.

A screenshot of a black box

Description automatically generated

A screenshot of a computer

Description automatically generated

A close-up of a computer screen

Description automatically generated



A screenshot of a web service

Description automatically generated

A screenshot of a phone

Description automatically generated

A screenshot of a computer

Description automatically generated

In JSON Format

A close up of a logo

Description automatically generatedJSON is just a format for mapping keys to values.

A screenshot of a phone

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A screenshot of a phone

Description automatically generated

A close up of a sign

Description automatically generated

A screenshot of a phone

Description automatically generated

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated

A screenshot of a chat

Description automatically generatedSettings -> Developer Settings

A screenshot of a computer

Description automatically generated

Must have admin rights to repository.

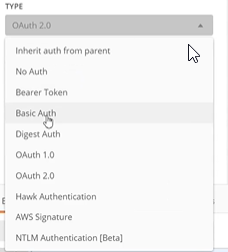
A screenshot of a computer

Description automatically generated

A screenshot of a chat

Description automatically generatedPreview the headers, view the key and value.

Send-> No responses now, 204 no content, Content has been removed and command was successful.



A screenshot of a computer

Description automatically generatedTypes of Authorization

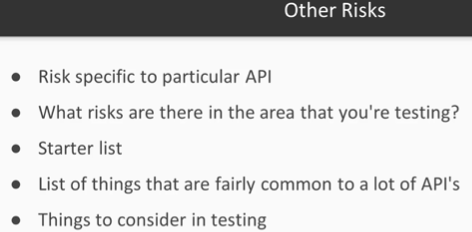
Basic Auth: Username and password

API Changing: APIs can change specially 3 rd party apis. What if version and functionality changes.

Availability: Communicating over an API, what happens if the network goes down, what happens if you send a api call and for some reason it does not come back.

Timing of responses: What happens if a call is out of order, what happens if a call is really slow and takes a long time to come back, what happens if the calls come in a different order than we expect.

Performance: APIs are called programmatically, we call them with code. How well does our server handle a lot of calls in a short amount of time. How well does it scale as the calls increase.



A close-up of a sign

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A close-up of a computer code

Description automatically generatedClone the repo using github desktop.

A close up of a sign

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Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

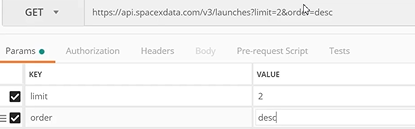
A screenshot of a computer

Description automatically generated



A screenshot of a computer

Description automatically generated



A orange sign with white text

Description automatically generatedQuery parameters or query string parameters.





A close-up of a sign

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Testing get calls

A close up of a sign

Description automatically generatedTesting post calls

Get calls, read data, don’t change anything.

A blue sign with white text

Description automatically generatedPost, put and delete calls now.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generatedEdit it.

A screenshot of a computer

Description automatically generated



A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Created the post, but set the value of id to null.

A screenshot of a test

Description automatically generated

A white text on an orange background

Description automatically generated

A screenshot of a computer

Description automatically generated

PUT Calls, change id to 2 in body and try to post it.

A screenshot of a computer

Description automatically generatedLook down,

A screenshot of a computer

Description automatically generatedDid not change the id for us.

Try to change one of the comments.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generatedChanged.

A screenshot of a computer

Description automatically generatedWe see that the embedded comment has changed.



Try to change the second comment, we see unauthorized.

A screenshot of a computer

Description automatically generated

A close up of a logo

Description automatically generatedIf we show the unauthorized status, it shows that the resource exists, better to return the 404 object doesn’t exist error.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Try and delte the profile and see what happens.

A screenshot of a web page

Description automatically generated

A screenshot of a computer

Description automatically generatedWe get a empty response.

A black background with white text

Description automatically generatedNow we see no blogposts. So the blogposts associated with the user profile have been removed.

A screenshot of a checklist

Description automatically generatedA black background with white text

Description automatically generated

A computer screen with a mouse cursor

Description automatically generated

A screenshot of a computer

Description automatically generated

List of request types.

A black background with white text

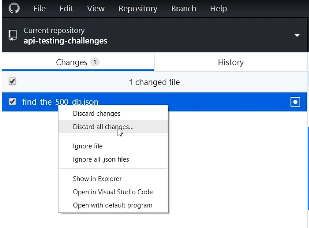
Description automatically generated

A screenshot of a computer

Description automatically generated



Use one of the urls.



A screenshot of a computer error

Description automatically generated

Find bugs, reset the changes in github desktop.

A number on an orange background

Description automatically generated

A screenshot of a computer

Description automatically generated

A close up of a sign

Description automatically generated

A screenshot of a phone

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generatedDescription: Tells what this test/collection is doing.

A screenshot of a computer

Description automatically generatedAuthorization: Specify once here

Will run before every request

A screenshot of a computer

Description automatically generated

A screenshot of a web page

Description automatically generatedWill run after every request

A screenshot of a computer

Description automatically generatedDefine variables that can be used for all requests in this collection.

A close-up of a sign

Description automatically generated

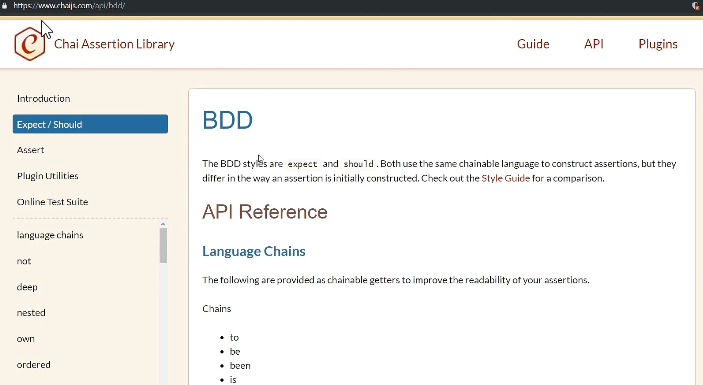
A screenshot of a computer

Description automatically generated



A screenshot of a computer

Description automatically generated

Now we get back a german address.

A screenshot of a computer

Description automatically generatedPostman uses the chai assertion library.

A screenshot of a computer

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A screenshot of a computer

Description automatically generated

A computer code with text

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A close-up of a sign

Description automatically generatedAdd the test in the tests section of the collection.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generatedEnvironments

A screenshot of a computer

Description automatically generated

A screenshot of a computer

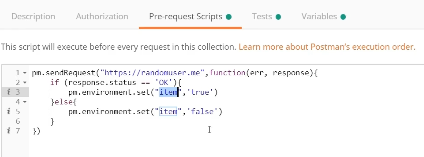
Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Environment Quick Look

A white text on an orange background

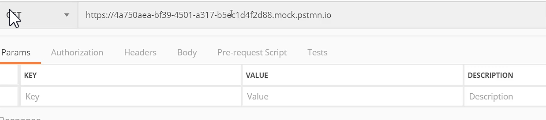
Description automatically generated

A screenshot of a computer

Description automatically generatedCreate a mock server

A screenshot of a web page

Description automatically generated



Points to a local server that Postman has made.

Add Example: Save this as an example.

A screenshot of a computer

Description automatically generated



Add ?nat=DE

A screenshot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

A screenshot of a computer

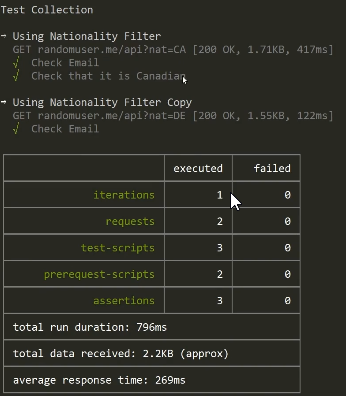
Description automatically generated

Export the test collection.

A screen shot of a computer

Description automatically generated



Use the second json to define the environment for the first json

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Description automatically generated

A close-up of a logo

Description automatically generated

A screenshot of a computer

Description automatically generated

Open Postman Console: Bottom left,

A screenshot of a computer

Description automatically generated

A computer screen shot of a computer

Description automatically generated

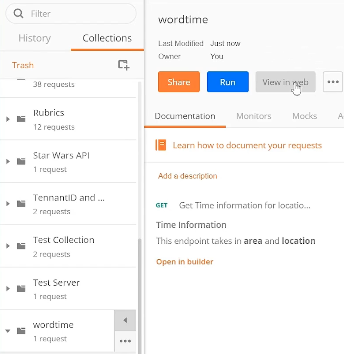
A screenshot of a computer

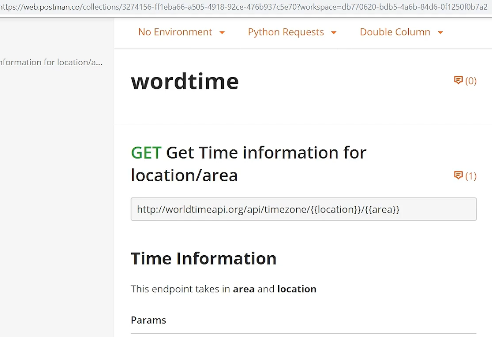
Description automatically generated

A screenshot of a computer

Description automatically generated





Wordtime view in web.

A white text on an orange background

Description automatically generated

A close up of a logo

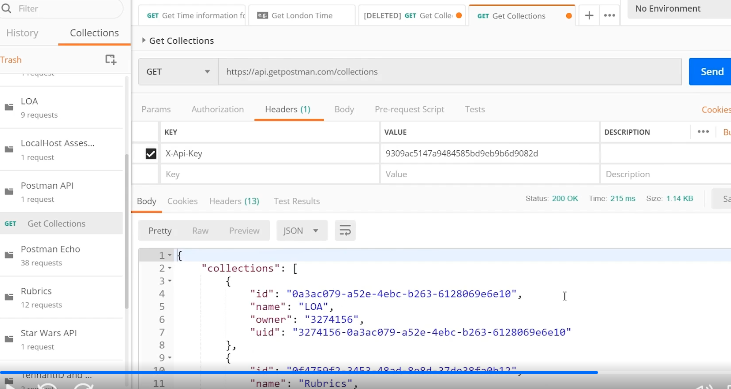
Description automatically generated

A screenshot of a computer

Description automatically generatedLogin to web.postman.co/workspaces

A screenshot of a computer

Description automatically generatedClick on Postman API -> Get an API Key



Postman API: Right click -> Create Request

A orange sign with white text

Description automatically generated

A screenshot of a web page

Description automatically generated



Using star wars api. Takes 3 iterations to pass.

A screenshot of a computer

Description automatically generatedFile -> Open new runner window.

A screenshot of a phone

Description automatically generated

Select the star wars API, Data -> Select file, Choose ready made csv file,

A screenshot of a computer

Description automatically generatedCan select Preview.

A close-up of a sign

Description automatically generated

A screenshot of a computer

Description automatically generated

Set address of the address returned by ipconfig. Port: 5555 default port used by postman.

A screenshot of a computer

Description automatically generated

Go to swapi.co

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

We go back to postman and see that it has captured the network requests.