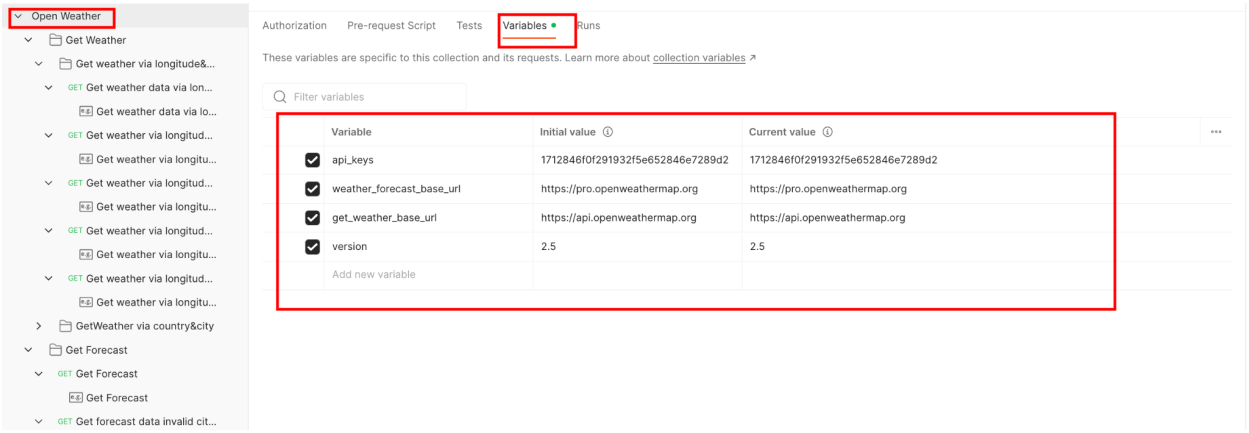
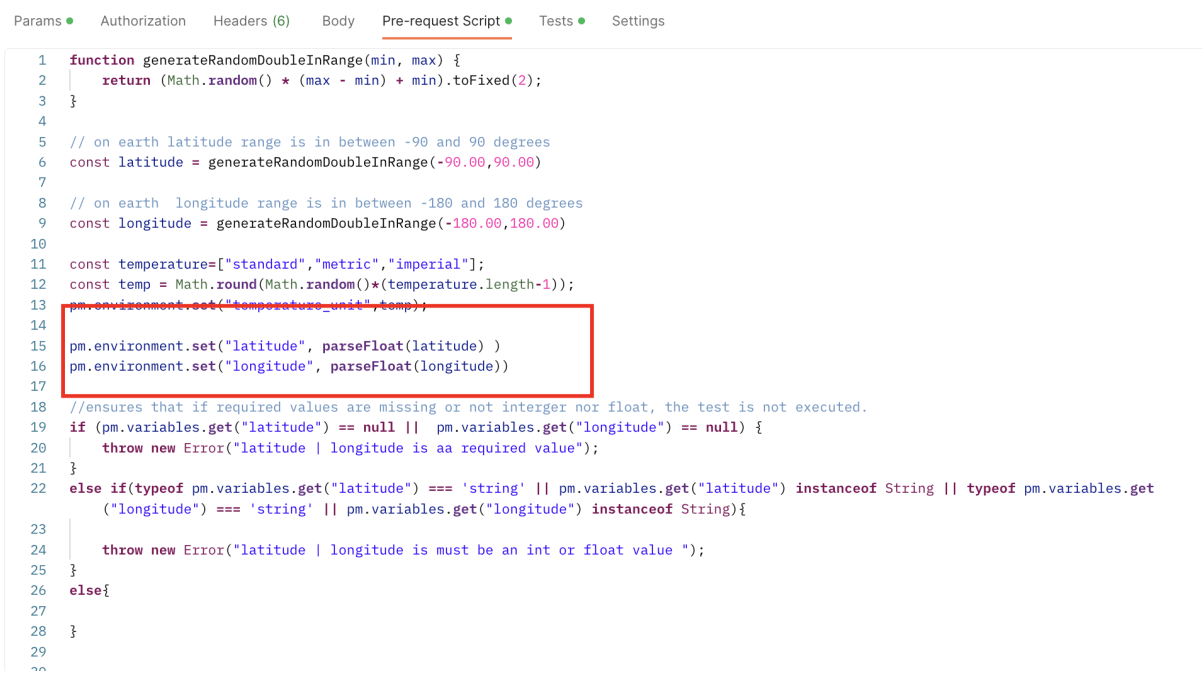
Test case documentation

1. Each test case has environment variables:
    a. Click on the collection name > Variables. These define the base url, api version and api keys.



2. Each test case has prerequisite scripts. What this does is set the variables required to run the tests. Example:
    a. This sets the latitude and longitude values generated from a random number. For each latitude and longitude value we have a minimum value.
    b. As for temperature, its picked randomly between three values: ***standard, metric and imperial***

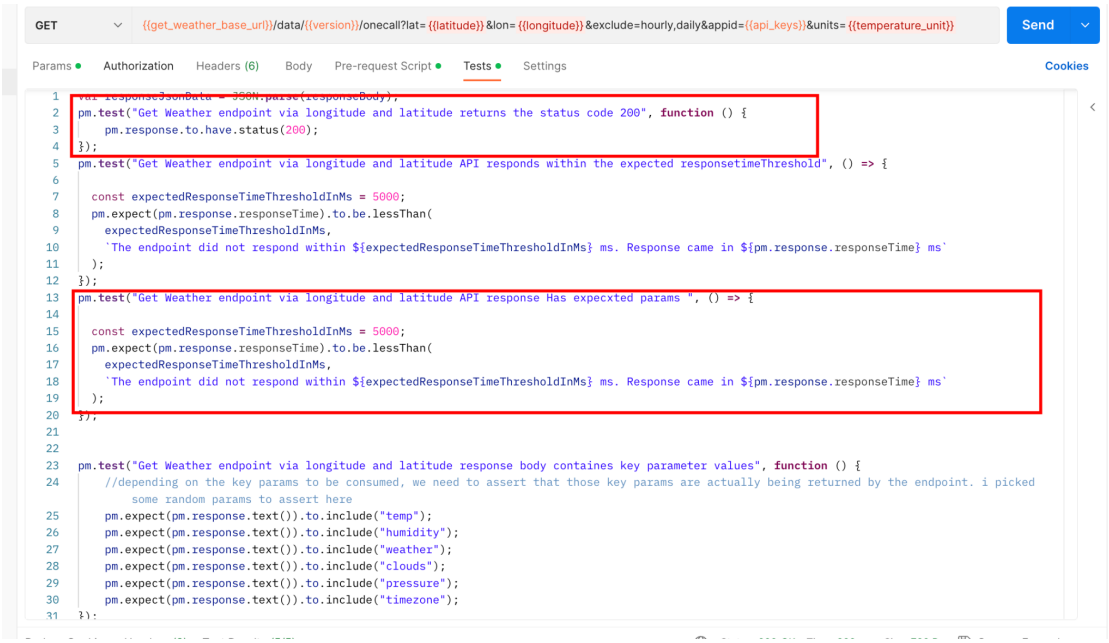



```
function generateRandomDoubleInRange(min, max) {
    return (Math.random() * (max - min) + min).toFixed(2);
}

// on earth latitude range is in between -90 and 90 degrees
const latitude = generateRandomDoubleInRange(-90.00,90.00)

// on earth  longitude range is in between -180 and 180 degrees
const longitude = generateRandomDoubleInRange(-180.00,180.00)

const temperature=["standard","metric","imperial"];
const temp = Math.round(Math.random()*(temperature.length-1));
pm.environment.set("temperature_unit",temp);

pm.environment.set("latitude", parseFloat(latitude) )
pm.environment.set("longitude", parseFloat(longitude))

//ensures that if required values are missing or not interger nor float, the test is not executed.
if (pm.variables.get("latitude") == null ||  pm.variables.get("longitude") == null) {
    throw new Error("latitude | longitude is aa required value");
}
else if(typeof pm.variables.get("latitude") === 'string' || pm.variables.get("latitude") instanceof String || typeof pm.variables.get
    ("longitude") === 'string' || pm.variables.get("longitude") instanceof String){

    throw new Error("latitude | longitude is must be an int or float value ");
}
else{

}
```

    c. As for the test: all successful test cases, we have set a precondition, if any param that is required is missing, an exception is thrown, and no tests is executed:

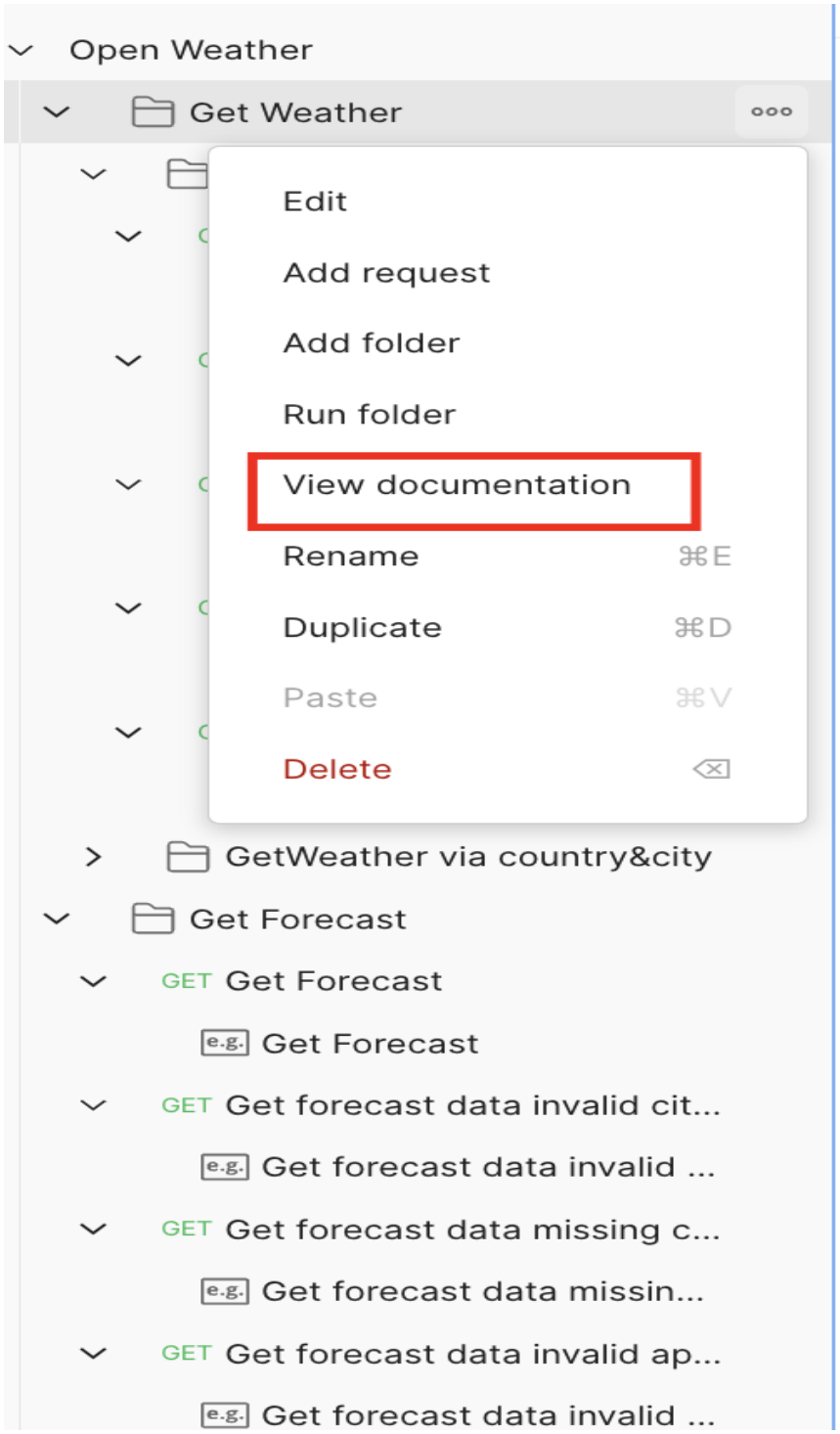
```
//ensures that if required values are missing or not interger nor float, the test is not executed.
if (pm.variables.get("latitude") == null ||  pm.variables.get("longitude") == null) {
    throw new Error("latitude | longitude is aa required value");
}
else if(typeof pm.variables.get("latitude") === 'string' || pm.variables.get("latitude") instanceof String || typeof pm.variables.get
    ("longitude") === 'string' || pm.variables.get("longitude") instanceof String){

    throw new Error("latitude | longitude is must be an int or float value ");
}
else{

}
```

3. All tests have the actual tests:
    a. This has a number of tests and assertions:

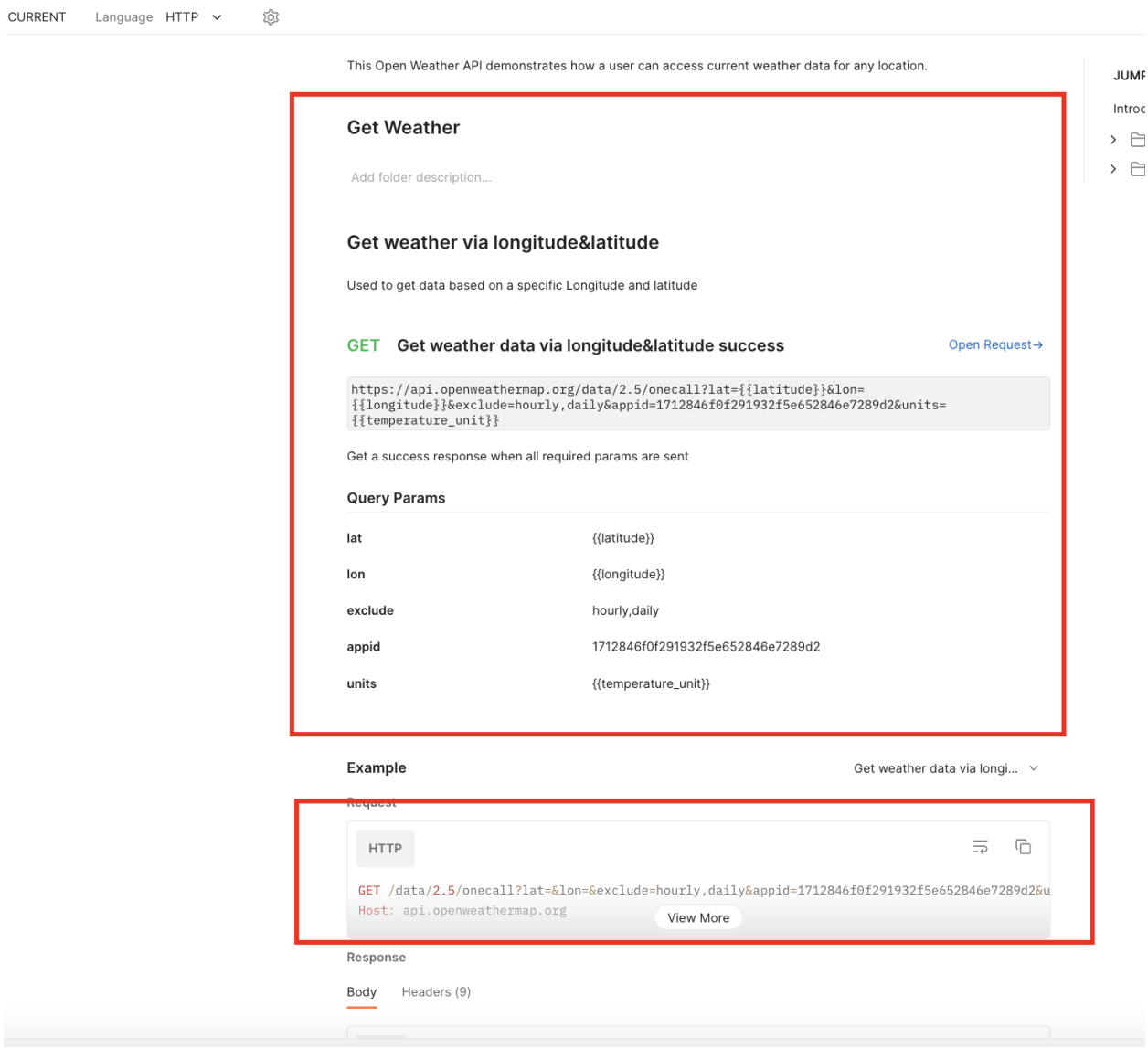


Positive and negative tests have been separated to their own api endpoints since it requires a user to send different kinds of requests/responses.

4. To access the api documentation, kindly click on the collection, then click on full documentation:



5. You would be able to see api documentation with sample requests and responses:

6. 

NOTE 1:

One expectation has not been met:

Verify that the API returns the correct temperature unit based on the parameter value passed in the request

Reason:

- ***How I am getting the weather is via using dynamic values for latitude and longitude, hence I cant assert that the temperature received is let's say 30 degrees if I had set units as metric.***
- ***Also, on the data received, the temperature value is a double, that does not have***

unit parameter concatenated, hence the values received can't be checked if its either of the three expected values.

NOTE 2: *Kindly review the following api automation using rest assured implementation using rest assured. This is from a different api done some years back. I have a more improved version that I need to change some things: https://github.com/Daisychepkemoi/cucumberRestApi*