|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | Test case | Description | Expected Result | | Success code 200 | Verify api access over HTTPS | The success code should be seen as Status: 200 ok when api URL accessed from <https://api.github.com/> | | Verify v3 for stability of API | Verify api access over HTTPs with Accept and github v3 passing as parameter with curl | The status code 200 along with gitbub.v3 is displayed in output when performing curl [https://api.github.com/users/technoweenie -I \](https://api.github.com/users/technoweenie%20-I%20\) -H “Accept: application/vnd.github.v3.full+Json” | | Verify Raw and Text | Verify api access over HTTPs with Accept and github v3 passing as parameter with curl along with Raw and Text application/vnd.github.VERSION.raw+json application/vnd.github.VERSION.text+json | Verify the response include body and for text it will also include body\_text | |

**Versions**

For stable api I would be concerned if the version is lower than version 3 and its still stable. Application/vnd.github.v3+json I would be testing and including all versions from test coverage. All versions that are supported

**Schema**

All api access is tested for success code 200 data that is sent and received as JSON

**Client Errors & Authorization c**ould be covered under possible QA scenarios

Content-length 35 – 400 bad request Problem parsing JSON

Content-length 40 – 400 bad request Body should be JSON object

Content-length 149 Unprocessable Entity

Invalid credentials – 401 unauthorized

Several request with invalid credentials – 403 forbidden

**Repetitive tests for Automation**.

From QA perspective testing out returned HTTP headers of API request with maximum number of allowed requests permitted to make per hour, number of X-RateLimit-Remaining in current rate limit window would be a good test. This could be an ideal candidate for automation is to test out exceed rate limit an error response returns API rate limit exceeded for specific API and unable to process request.

**Tools**

I will use Tools such as SPLUNK to add new REST api input name and EndPoint URL and different response type such as text and validate the output. SPLUNK can also be used to verify the number of authentication failures based on specific username.

Also all type of apis can be tested with endpoint URL with different authentication type like basic, oauth2, none etc