

GitHub API testing

In this assignment, you will test GitHub API. Full documentation for GitHub API can be found here: <https://developer.github.com/v3/>.

Automate the given test cases written based on couple of the endpoints from the GitHub API. You can use any existing project. You can automate all test cases in same class or different classes.

Base Path: <https://api.github.com>

TEST CASES

Verify organization information

1. Send a get request to </orgs/:org>. Request includes :
 - Path param **org** with value **cucumber**
2. Verify status code **200**, content type **application/json; charset=utf-8**
3. Verify value of the **login** field is **cucumber**
4. Verify value of the **name** field is **cucumber**
5. Verify value of the **id** field is **320565**

Verify error message

1. Send a get request to </orgs/:org>. Request includes :
 - Header **Accept** with value **application/xml**
 - Path param **org** with value **cucumber**
2. Verify status code **415**, content type **application/json; charset=utf-8**
3. Verify response status line include message **Unsupported Media Type**

Number of repositories

1. Send a get request to </orgs/:org>. Request includes :
 - Path param **org** with value **cucumber**
2. Grab the value of the field **public_repos**
3. Send a get request to </orgs/:org/repos>. Request includes :
 - Path param **org** with value **cucumber**
4. Verify that number of objects in the response is equal to value from step 2

Repository id information

1. Send a get request to </orgs/:org/repos>. Request includes :
 - Path param **org** with value **cucumber**
2. Verify that **id** field is unique in every in every object in the response
3. Verify that **node_id** field is unique in every in every object in the response

Repository owner information

1. Send a get request to </orgs/:org>. Request includes :
 - Path param **org** with value **cucumber**
2. Grab the value of the field **id**
3. Send a get request to </orgs/:org/repos>. Request includes :
 - Path param **org** with value **cucumber**
4. Verify that value of the **id** inside the **owner** object in every response is equal to value from step 2

Ascending order by full_name sort

1. Send a get request to `/orgs/:org/repos`. Request includes :
 - Path param `org` with value `cucumber`
 - Query param `sort` with value `full_name`
2. Verify that all repositories are listed in alphabetical order based on the value of the field `name`

Descending order by full_name sort

1. Send a get request to `/orgs/:org/repos`. Request includes :
 - Path param `org` with value `cucumber`
 - Query param `sort` with value `full_name`
 - Query param `direction` with value `desc`
2. Verify that all repositories are listed in reverser alphabetical order based on the value of the field `name`

Default sort

1. Send a get request to `/orgs/:org/repos`. Request includes :
 - Path param `org` with value `cucumber`
2. Verify that by default all repositories are listed in descending order based on the value of the field `created_at`