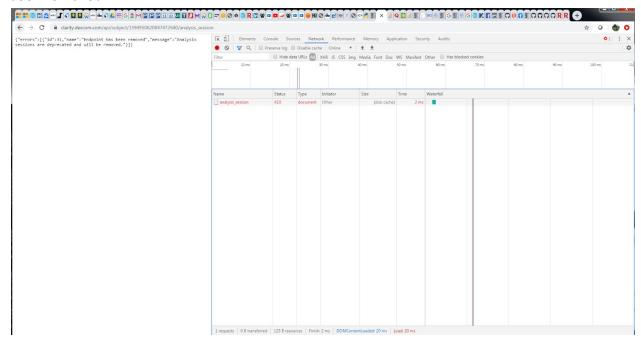
1. Reaching Endpoint in Browser

Executing manual steps to reach the endpoint in Chrome Browser, we see that the error message indicates that the document cannot be reached, because the 'Endpoint has been removed':



2. Managing OAuth2 session.

In order to establish the OAuth2 session, we need to have the 'client_id' and 'client_secret' of the application. Since these are not available for the Dexcom application, the example below establishes an OAuth2 session with my GitHub application:

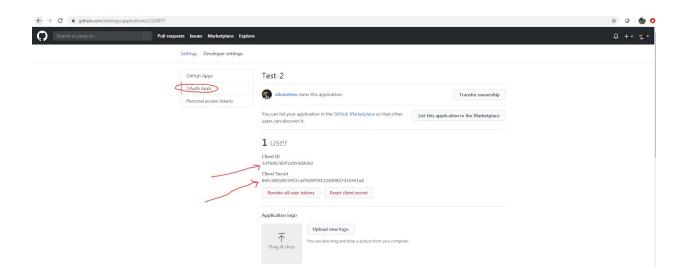
OAuth2 login example with GitHub application

Based on workflow shown here:

from requests_oauthlib import OAuth2Session

Credentials you get from registering a new GitHub application client_id = '32f6db7d9f22b54ddd4d' client_secret = '865c88d20cb9f2caf9d49591128d9027d16591a4' print('clinet_id:::::::',client_id) print('client_secret:::::',client_secret)

print(' ')

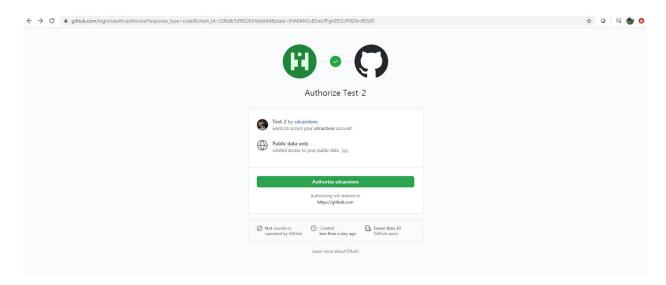


OAuth endpoints given in the GitHub API documentation authorization_base_url = 'https://github.com/login/oauth/authorize' token_url = 'https://github.com/login/oauth/access_token'

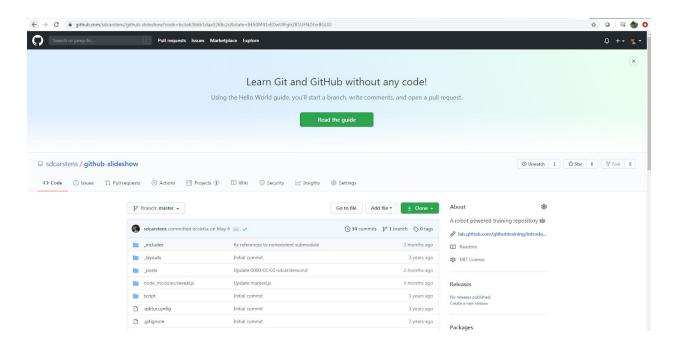
Establish OAuth session to GitHub Application
github = OAuth2Session(client_id)
print('github::::::',github)
print('')

Redirect user to GitHub for Authorization

authorization_url, state = github.authorization_url(authorization_base_url) print('Please go here and authorize,', authorization_url) print(' ')



Get the authorization verifier code from the callback url redirect_response = input('Paste the full redirect URL here:')



Fetch the access token github.fetch_token(token_url, client_secret=client_secret, authorization_response=redirect_response)

Fetch a protected resource, i.e. user profile r = github.get('https://api.github.com/user') print('Protected Resource Content::::: ', r.content)

C:\b-python\Scripts\python nyTest3.py
clinet_id::::::: 32f6db7d9f22b54ddd4d
client_secret:::: 865c88d28cb9f2caf9d49591128d9027d16591a4
github:::::: \text{requests_oauthlib.oauth2_session.0Auth2Session object at 8x0044E6A0}}

Please go here and authorize, https://github.com/login/oauth/authorize?response_type=code&client_id=32f6db7d9f22b54ddd4d&state=hcF10gd1IqU5VbCMfJQsKAAScpwIYL

Paste the full redirect URL here:https://github.com/sdcarstens/github-slideshow?code=aec?785448fc5f055fd8a&state=hcF10gd1IqU5VbCMfJQsKAAScpwIYL

Protected Resource Content::::: b'\"login":\"sdcarstens",\"id\":64766243,\"node_id\":\"MDQ6UXNlcjY0NzYJQz\",\"avatar_url\":\"https://api.github.com/users/sdcarstens\",\"id\":64766243?v=4\",\"github.com/users/sdcarstens\",\"followers\",\"follow

3. Test For Interacting with API HTTP Request calls

Below is the output from a Test which creates a Session object and executes POST and GET requests to the Dexcom REST API. The error message returned again says that the 'Endpoint has been removed'.

```
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```

The Python code can be found here: https://github.com/sdcarstens/Dexcom-Test2

```
# Read in config options for URL, Username, Password
config = configparser.RawConfigParser()
config.read('myTest1.conf')
config url
               = config.get('options', 'url')
config username = config.get('options', 'username')
config password = config.get('options', 'password')
config post url = config.get('options', 'post url')
print(config.sections())
print("Config option URL: ",config url)
print("Config option Username: ",config username)
print("Config option Password: ",config password)
print("Config option POST URL: ",config post url)
class DexcomApiAutomation(unittest.TestCase):
   """Use the Sessions object class and unittest framework to test Dexcom API endpoint."""
    def setUp(self):
       print("setUp here.")
        #self.driver = webdriver.Chrome()
        #self.driver.get(config url)
    def test_search_in_python_org(self):
        Tests the ability to POST to
https://clarity.dexcom.com/api/subject/1594950620847472640/analysis session
        # Create new session object
        newSession = requests.Session()
        # Login to Dexcom URL
        # Expect status code 200, successful login
        data = {"login":config username, "password":config password}
        auth = HTTPBasicAuth(config username, config password)
        r = newSession.post(url=config url, data=data, auth=auth)
        print("Headers:::::: ", newSession.headers)
        print("Auth:::::::: ", newSession.auth)
        print("Response::::::::::::",r)
```

```
print("Response.text:::::::::::",r.text)
       print("Response.Status_Code:::::: ",r.status_code)
       assert r.status_code == 200, "Expected status code should be 200"
       print("----")
       print(" ")
       # Now use the POST request to test API endpoint
         Expect response status code 401 for invalid authentication
       data = {'sender': 'Alice', 'receiver': 'Bob', 'message': 'We did it!'}
       headers = {'Content-type': 'application/json', 'Accept': 'text/plain'}
       r = newSession.post(config post url, data=json.dumps(data), headers=headers,
auth=auth)
       print("Response:::::::::::",r)
       print("Response.text:::::::::::",r.text)
       print("Response.Status_Code:::::: ",r.status_code)
       assert r.status_code == 401, "Expected status code should be 401"
       print("----")
       print(" ")
       # Now use the GET request to test API endpoint
       # Expect response: {'errors': [{'id': 31, 'name': 'Endpoint has been removed',
'message': 'Analysis sessions are deprecated and will be removed.'}]}
       r = newSession.get(url = config post url, auth=auth)
       data = r.json()
       analysisSessionId = data['errors'][0]['id']
       print("analysisSessionID:::::::: ",analysisSessionId)
       assert analysisSessionId != 'None', "The value of analysisSessionId should not be
None"
   def tearDown(self):
       print("tearDown here.")
       #self.driver.close()
if name == " main ":
   unittest.main()
```