

User Guide To Python Sample Code

OPEN AUTHENTICATION : PYTHON

About

- This Sample Code is targeted for those who are new in calling API using Open Authentication App with Client Id and Secret in Java Language
- This Sample Code provides the minimum requirement in retrieving a token calling “GET” Request API.

Prerequisites

- Python 3–
 - Windows -[Download Link](#)
 - MacOS -[Download Link](#)
- Developer Account with Open Authentication App*
- Client Id and Secret from Developer Portal**

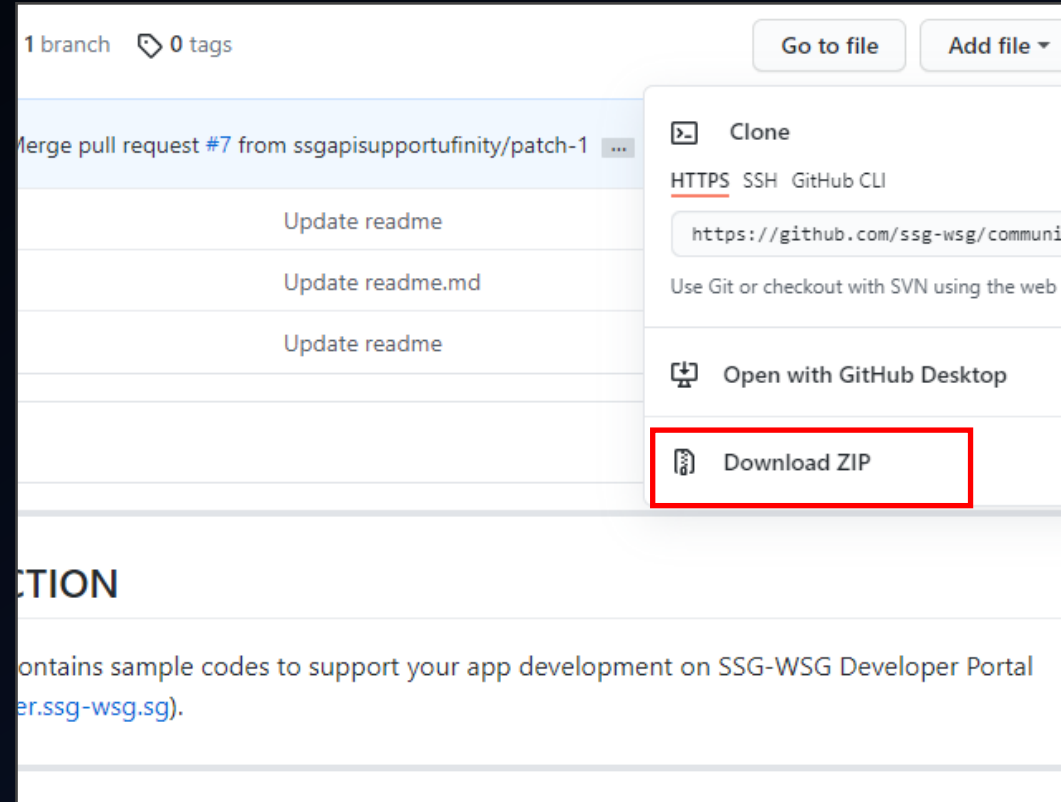
**Ensure the Application is subscribed to the desire API*

***Client Id and Secret can be obtained under : Dashboard -> "Application" -> App Setting -> Client Id and Secret*

For creation of account, you may view the Started Guides [here](#)

SETTING UP AND CHECKS

- Download the Sample Code [here](#) and stored it at your desire location
- Check Python program is using Python 3



```
C:\Users\ >python
Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

RUNNING THE APPLICATION

- Install the following libraries

Windows

- sudo apt-get install python3-pip
- pipinstall requests_oauthlib
- pipinstall oauthlib.oauth

- Open CMD and navigate to the sample code file

- cd "*Path to Sample Code*"

- Run the Python File with the following command

- python3 *filename*.py

MacOS

- curl <https://bootstrap.pypa.io/get-pip.py> -o get-pip.py
- commandpython3 get-pip.py
- sudo pip install requests_oauthlib
- pip install oauthlib

```
Microsoft Windows [Version 10.0.19042.985]  
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\ >cd SampleCode
```

```
Microsoft Windows [Version 10.0.19042.985]  
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\ >cd SampleCode
```

```
C:\Users\ \SampleCode>python3 SampleCodePythonOpen.py
```

RUNNING THE APPLICATION

Enter URL, Client Id, and Secret to call the API

URL Examples:

- <https://public-api.ssg-wsg.sg/courses/categories?keyword=Training>
- <https://public-api.ssg-wsg.sg/courses/directory/SCN-198202248E-01-CRS-N-0027685>
- <https://public-api.ssg-wsg.sg/courses/tags?sortBy=0>

```
#####  
Simple Program in Python to call OAuth 2 Token for Get API  
#####  
1) Please get ready the GET API URL  
2) Please get ready the Client ID from developer portal  
3) Please get ready the Secret from developer portal
```

Enter URL to continue: <https://public-api.ssg-wsg.sg/courses/categories?keyword=Training>

```
#####  
Simple Program in Python to call OAuth 2 Token for Get API  
#####  
1) Please get ready the GET API URL  
2) Please get ready the Client ID from developer portal  
3) Please get ready the Secret from developer portal
```

Enter URL to continue: <https://public-api.ssg-wsg.sg/courses/categories?keyword=Training>

Enter Client Id:

```
#####  
Simple Program in Python to call OAuth 2 Token for Get API  
#####  
1) Please get ready the GET API URL  
2) Please get ready the Client ID from developer portal  
3) Please get ready the Secret from developer portal
```

Enter URL to continue: <https://public-api.ssg-wsg.sg/courses/categories?keyword=Training>

Enter Client Id:

Input Secret Key:

Results

SUCCESSFUL CALL

```
{
  "data": {
    "categories": [
      {
        "display": true,
        "id": 1,
        "name": "Area of Training",
        "rolodex": {
          "display": false,
          "numberOfLetters": 1
        }
      },
      {
        "display": true,
        "id": 4,
        "name": "Training Partners",
        "rolodex": {
          "display": true,
          "numberOfLetters": 3
        }
      }
    ]
  },
  "error": {},
  "meta": {
    "total": 2
  },
  "status": 200
}
```

UNSUCCESSFUL CALL

```
C:\Users\    \SampleCode>python3 SampleCodePythonOpen.py
#####
Simple Program in Python to call OAuth 2 Token for Get API
#####
1) Please get ready the GET API URL
2) Please get ready the Client ID from developer portal
3) Please get ready the Secret from developer portal

Enter URL to continue: IncorrectURL
Enter Client Id: IncorrectID
Input Secret Key: IncorrectKey
An error has occurred. Please check data input
```

Upon keying incorrect data for URL, Client Id or Secret Key, an error message will be shown to user