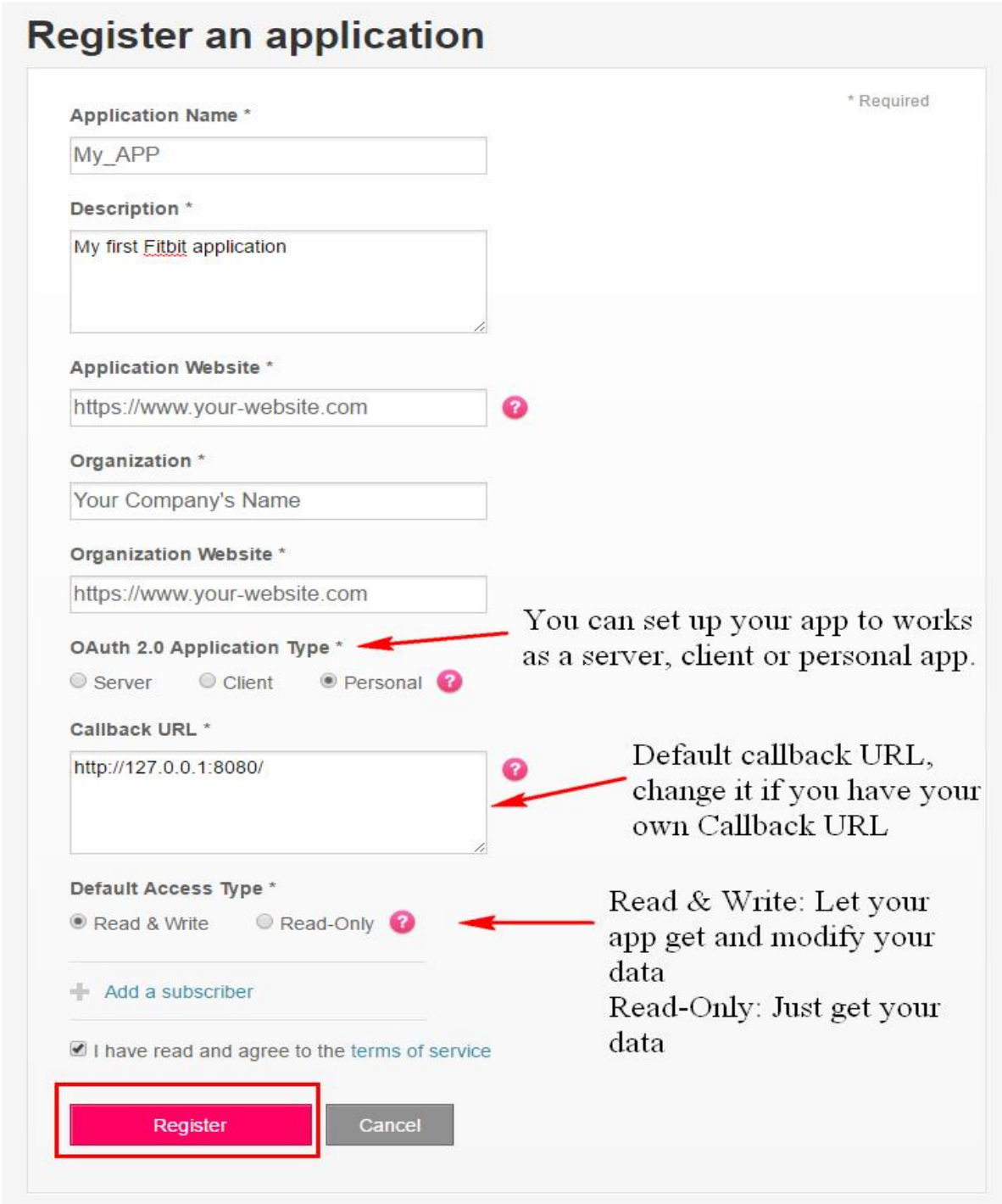
Fitbit API Documents

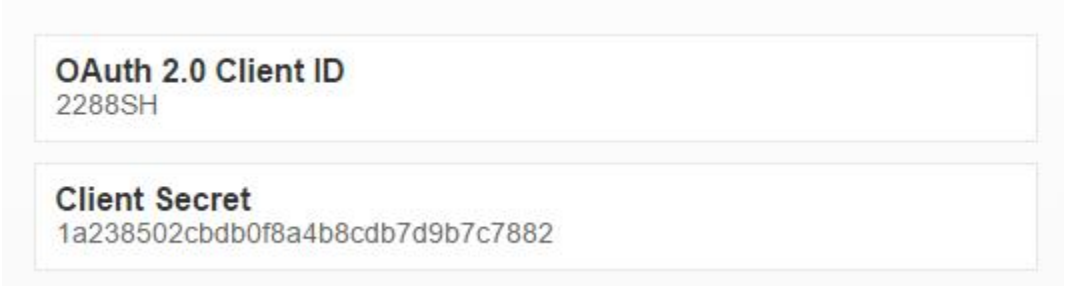
I. Creating Fitbit Application

Before using Fitbit API, you must create a Fitbit application here:
https://dev.fitbit.com/apps/new

Log in with your Fitbit account and fill out like this picture



After creating your Fitbit application, please visit here to manage your apps: https://dev.fitbit.com/apps



Remember to keep your 2 important info of your app are **OAuth 2.0 Client ID** and **Client Secret.** In this case are "**2288SH**" and "**1a238502cbdb0f8a4b8cdb7d9b7c7882**".

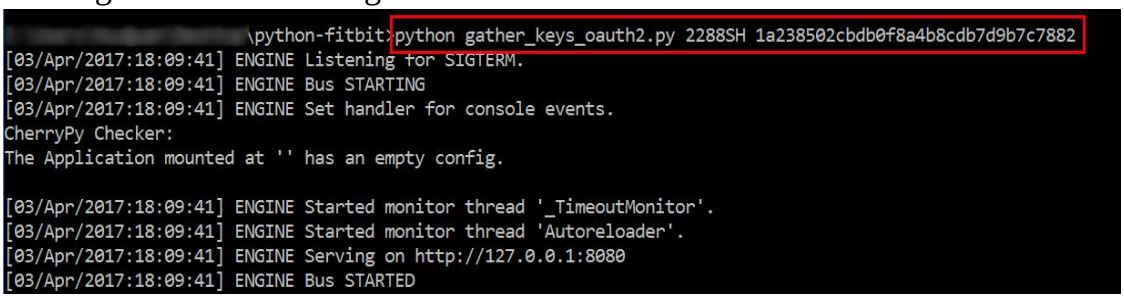
II. Get Data via Fitbit API

1. Gather Access Token and Refresh Token

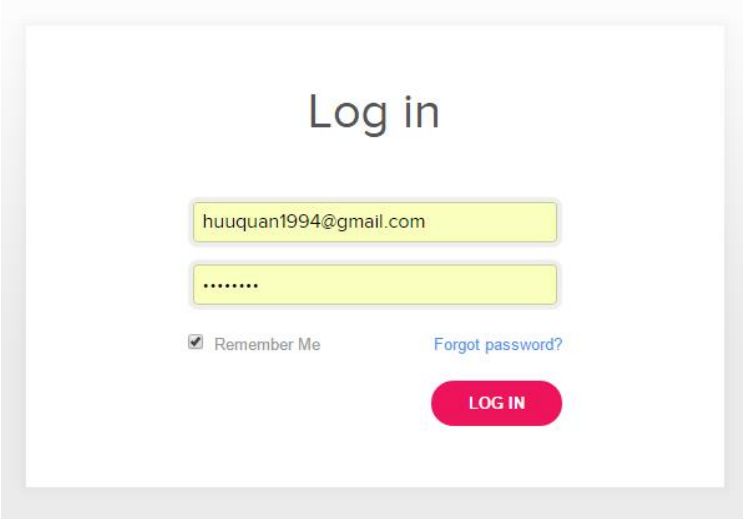
Access Token and **Refresh Token** will help you to access and modify your data. But if it expired, you should get it again via "**gather_keys_oauth2.py**" file by typing the command:

>> python gather_keys_oauth2.py <Client ID> <Client Secret>

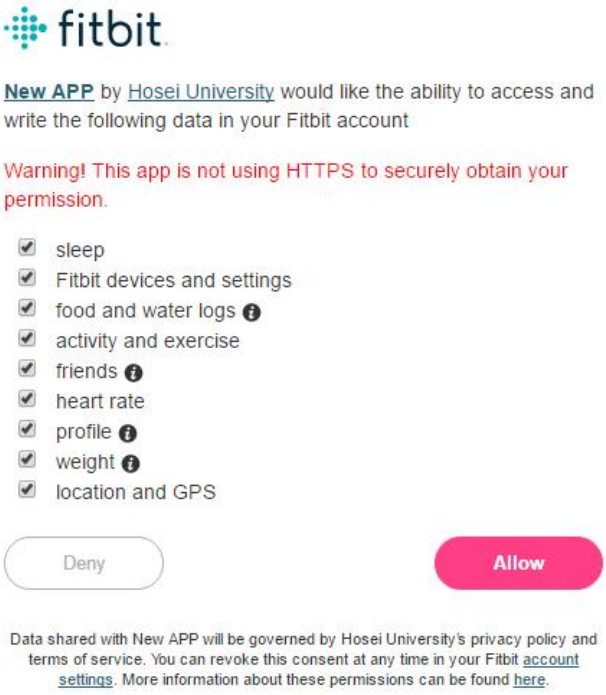
This figure shows how to gather **Access Token** and **Refresh Token**



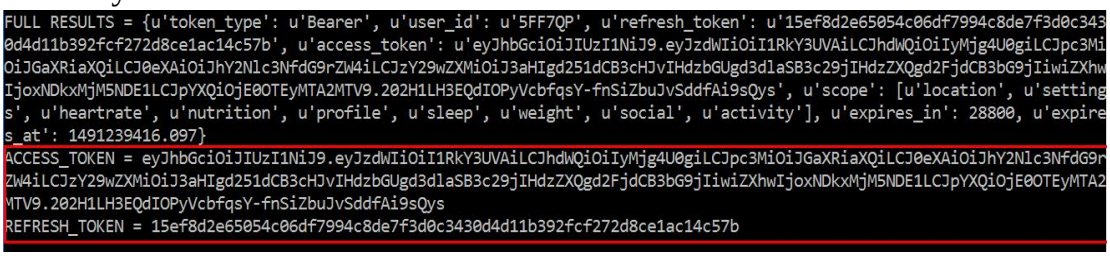
After that, you must log in with your Fitbit account to continue



Choosing your option and click **Allow** to get your **Access Token** and **Refresh Token**.



Here is your **Access Token** and **Refresh Token**



Now, you can fully access your Fitbit data with these token.

2. Play with your data

Note that you can read full implemented function in this website: http://python-fitbit.readthedocs.io/en/latest/

Here are just some Python code examples to get data via this API

- Get your heart rate in every 1 minute

```
import datetime
import fitbit
today = datetime.datetime.now().strftime("%Y-%m-%d")
USER_ID = "2288SH"
CLIENT_SECRET = "1a238502cbdb0f8a4b8cdb7d9b7c7882"
ACCESS_TOKEN =
"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1RkY3UVAiLCJhdWQiOiIyMjg4U
```

```
0giLCJpc3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nlc3NfdG9rZW4iLCJzY
29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3dlaSB3c29jIHdzZXQgd
2FjdCB3bG9jIiwiZXhwIjoxNDkxMjM5NDE1LCJpYXQiOjE0OTEyMT
A2MTV9.202H1LH3EQdIOPyVcbfqsY-fnSiZbuJvSddfAi9sQys"
REFRESH_TOKEN =
"15ef8d2e65054c06df7994c8de7f3d0c3430d4d11b392fcf272d8ce1ac14c5
7b"
auth2_client = fitbit.Fitbit(USER_ID, CLIENT_SECRET, oauth2=True,
                             access_token=ACCESS_TOKEN,
                             refresh_token=REFRESH_TOKEN)
# fitbit_stats is a JSON instance, please print for more detail
fitbit_stats = auth2_client.intraday_time_series('activities/heart', today,
detail_level='1min')
```

- Get your walking steps in every 1 minute

```
import datetime
import fitbit
today = datetime.datetime.now().strftime("%Y-%m-%d")
USER_ID = "2288SH"
CLIENT_SECRET = "1a238502cbdb0f8a4b8cdb7d9b7c7882"
ACCESS_TOKEN =
"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1RkY3UVAiLCJhdWQiOiIyMjg4U
0giLCJpc3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nlc3NfdG9rZW4iLCJzY
29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3dlaSB3c29jIHdzZXQgd
2FjdCB3bG9jIiwiZXhwIjoxNDkxMjM5NDE1LCJpYXQiOjE0OTEyMT
A2MTV9.202H1LH3EQdIOPyVcbfqsY-fnSiZbuJvSddfAi9sQys"
REFRESH_TOKEN =
"15ef8d2e65054c06df7994c8de7f3d0c3430d4d11b392fcf272d8ce1ac14c5
7b"
auth2_client = fitbit.Fitbit(USER_ID, CLIENT_SECRET, oauth2=True,
                             access_token=ACCESS_TOKEN,
                             refresh_token=REFRESH_TOKEN)
# fitbit_stats is a JSON instance, please print for more detail
fitbit_stats = auth2_client.intraday_time_series('activities/steps', today,
detail_level='1min')
```

- Get your calories in every 1 minute

```
import datetime
import fitbit
today = datetime.datetime.now().strftime("%Y-%m-%d")
USER_ID = "2288SH"
```

```
CLIENT_SECRET = "1a238502cbdb0f8a4b8cdb7d9b7c7882"
ACCESS_TOKEN =
"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1RkY3UVAiLCJhdWQiOiIyMjg4U
0giLCJpc3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nlc3NfdG9rZW4iLCJzY
29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3dlaSB3c29jIHdzZXQgd
2FjdCB3bG9jIiwiZXhwIjoxNDkxMjM5NDE1LCJpYXQiOjE0OTEyMT
A2MTV9.202H1LH3EQdIOPyVcbfqsY-fnSiZbuJvSddfAi9sQys"
REFRESH_TOKEN =
"15ef8d2e65054c06df7994c8de7f3d0c3430d4d11b392fcf272d8ce1ac14c5
7b"
auth2_client = fitbit.Fitbit(USER_ID, CLIENT_SECRET, oauth2=True,
                             access_token=ACCESS_TOKEN,
                             refresh_token=REFRESH_TOKEN)
# fitbit_stats is a JSON instance, please print for more detail
fitbit_stats = auth2_client.intraday_time_series('activities/calories', today,
detail_level='1min')
```

- Get your sleep data

```
import datetime
import fitbit
today = datetime.datetime.now().strftime("%Y-%m-%d")
today = datetime.datetime.strptime(today, '%Y-%m-%d')

USER_ID = "2288SH"
CLIENT_SECRET = "1a238502cbdb0f8a4b8cdb7d9b7c7882"
ACCESS_TOKEN =
"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiI1RkY3UVAiLCJhdWQiOiIyMjg4U
0giLCJpc3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nlc3NfdG9rZW4iLCJzY
29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3dlaSB3c29jIHdzZXQgd
2FjdCB3bG9jIiwiZXhwIjoxNDkxMjM5NDE1LCJpYXQiOjE0OTEyMT
A2MTV9.202H1LH3EQdIOPyVcbfqsY-fnSiZbuJvSddfAi9sQys"
REFRESH_TOKEN =
"15ef8d2e65054c06df7994c8de7f3d0c3430d4d11b392fcf272d8ce1ac14c5
7b"
auth2_client = fitbit.Fitbit(USER_ID, CLIENT_SECRET, oauth2=True,
                             access_token=ACCESS_TOKEN,
                             refresh_token=REFRESH_TOKEN)
# fitbit_stats is a JSON instance, please print for more detail
fitbit_stats = auth2_client.get_sleep(today)
```