

How to get my Fitbit Access Token?

1. Register or log into your Fitbit account on <https://dev.fitbit.com/apps> and click “Manage My Apps”
2. Click “**Register a new app**” next to the page title.
3. Enter the information that is **exactly the same** as shown in the below image:
 - OAuth 2.0 Application Type: **Personal**
 - URL: <https://fittextest.herokuapp.com>
 - Redirect URL: <http://localhost>
 - Default Access Type: **Read & Write**

Register an application

Application Name *
FitEx

Description *
Anything

Application Website URL *
<https://fittextest.herokuapp.com>

Organization *
Virginia Tech

Organization Website URL *
<https://fittextest.herokuapp.com>

Terms of Service URL *
<https://fittextest.herokuapp.com>

Privacy Policy URL *
<https://fittextest.herokuapp.com>

OAuth 2.0 Application Type *
☐ Server ☐ Client ☒ Personal

Redirect URL *
<http://localhost>

Default Access Type *
☒ Read & Write ☐ Read Only

+ Add a subscriber

☒ I have read and agree to the [terms of service](#)

Register Cancel

4. Click “[OAuth 2.0 tutorial page](#)”
5. Choose “[Implicit Grant Flow](#)” as the Flow Type. Clicked on all scopes and enter [604800](#) as the expiration time. Your settings should be like this:

OAuth 2.0 tutorial page

For a detailed explanation of OAuth 2.0, see the Fitbit API [documentation](#).

1: Authorize

- First, choose the type of flow your application will use. Implicit grant flow is for use in client-side applications that cannot keep a secret because they distribute their source code to the client (web apps, mobile apps). The authorization code flow is for server-side applications that can keep a secret. If possible, use the authorization code flow, because while both flows are secure, it provides additional security.

Flow type: ☒ Implicit Grant Flow ☐ Authorization Code Flow

- Enter all of your application's relevant data below. You can find this data at [dev.fitbit.com](#).

Fitbit URL:

Fitbit API URL:

OAuth 2.0 Client ID:

Client Secret:

Redirect URI:

- Choose below what user data you'd like to have access to.

Select Scopes

<input checked="" type="checkbox"/> activity	<input checked="" type="checkbox"/> heartrate	<input checked="" type="checkbox"/> location	<input checked="" type="checkbox"/> nutrition
<input checked="" type="checkbox"/> profile	<input checked="" type="checkbox"/> settings	<input checked="" type="checkbox"/> sleep	<input checked="" type="checkbox"/> social
<input checked="" type="checkbox"/> weight	<input checked="" type="checkbox"/> spo2	<input checked="" type="checkbox"/> breathingrate	<input checked="" type="checkbox"/> temperature

- The default expiration times are 1 hour for the authorization code flow, and 1 day for the implicit grant flow. The expiration time for the implicit grant flow can be set to certain values; see [the docs](#) for details.

Expires In(ms):

- We've generated the authorization URL for you, all you need to do is just click on link below:

https://www.fitbit.com/oauth2/authorize?response_type=token&client_id=238K3X&redirect_uri=http%3A%2F%2Flocalhost&scope=activity%20heartrate%20location%20nutrition%20profile%20settings%20sleep%20social%20weight%20oxygen_saturation%20respiratory_rate%20temperature&expires_in=604800

6. Click the generated authorization URL

OAuth 2.0 tutorial page

For a detailed explanation of OAuth 2.0, see the [Fitbit API documentation](#).

1: Authorize

- First, choose the type of flow your application will use. Implicit grant flow is for use in client-side applications that cannot keep a secret because they distribute their source code to the client (web apps, mobile apps). The authorization code flow is for server-side applications that can keep a secret. If possible, use the authorization code flow, because while both flows are secure, it provides additional security.

Flow type: ☒ Implicit Grant Flow ☐ Authorization Code Flow

- Enter all of your application's relevant data below. You can find this data at [dev.fitbit.com](#).

Fitbit URL:

Fitbit API URL:

OAuth 2.0 Client ID:

Client Secret:

Redirect URI:

- Choose below what user data you'd like to have access to.

Select Scopes

<input checked="" type="checkbox"/> activity	<input checked="" type="checkbox"/> heartrate	<input checked="" type="checkbox"/> location	<input checked="" type="checkbox"/> nutrition
<input checked="" type="checkbox"/> profile	<input checked="" type="checkbox"/> settings	<input checked="" type="checkbox"/> sleep	<input checked="" type="checkbox"/> social
<input checked="" type="checkbox"/> weight	<input checked="" type="checkbox"/> spo2	<input checked="" type="checkbox"/> breathingrate	<input checked="" type="checkbox"/> temperature

- The default expiration times are 1 hour for the authorization code flow, and 1 day for the implicit grant flow. The expiration time for the implicit grant flow can be set to certain values; see [the docs](#) for details.

Expires In(ms):

- We've generated the authorization URL for you, all you need to do is just click on link below:

https://www.fitbit.com/oauth2/authorize?response_type=token&client_id=238K3X&redirect_uri=http%3A%2F%2Flocalhost&scope=activity%20heartrate%20location%20nutrition%20profile%20settings%20sleep%20social%20weight%20oxygen_saturation%20respiratory_rate%20temperature&expires_in=604800

7. On the permission page, please choose 1 year for a lasting time and allow all data to be retrieved.



FitEx by Virginia Tech would like the ability to access and write the following data in your Fitbit account. for 1 year

Warning! This app is not using HTTPS to securely obtain your permission.

☒ Allow All

- ☒ sleep
- ☒ oxygen saturation (SpO2)
- ☒ location and GPS
- ☒ temperature
- ☒ activity and exercise
- ☒ food and water logs ⓘ
- ☒ profile ⓘ
- ☒ weight ⓘ
- ☒ friends ⓘ
- ☒ heart rate
- ☒ breathing rate
- ☒ Fitbit devices and settings

Please Choose
1year for here

If you allow only some of this data, FitEx may not function as intended. Learn more about these permissions [here](#).

Deny

Allow

The data you share with FitEx will be governed by Virginia Tech's [Privacy Policy](#) and [Terms of Service](#). You can revoke this consent at any time in your Fitbit [account settings](#).

- After you click Allow, you will be redirected to an empty page, which means you have successfully authorized. Please copy and paste the URL on that blank webpage. Intercept the access token in that URL (should be between “#access_token=” and “&user_id=”). Sample below:

Sample URL:

http://localhost/#access_token=eyJhbGciOiJIUzI1NiIsInR5cGU6ImF0cm9tZWVudCIsInRlZyI6ImNFRmFScGljLCJpc3MiOiJGaXRiaXQjLCJ0eXAiOiHyY2Nlc3NfdG9rZWw4iLCJyZ29wZXMiOiJ3aHlgd251dCB3cHJvIHdzbgUGd3NvYyB3YWNOIHdveHkgd3RlbSB3d2VpIHdzZXQgd3Jlc3B3bG9jiwiZlhwIjoxiYyMjQxNjlxLCJpYXQjOiJEN2Ntk3MjkwMDV9.yznnoB9klflwjEXI58CfvGfOPBYOjkFfewzqQb0sJ6c&use_r_id=B4TZHW&scope=social+nutrition+respiratory_rate+temperature+location+sleep+settings+activity+oxygen_saturation+weight+heartrate+profile&token_type=Bearer&expires_in=2512616

Access Token

eyJhbGciOiJIUzI1NiJ9.eyJhdWQiOiIyZmhlM1giLCJzdWIiOiJCnFRaSFCiLCJpc3MiOiJGaXRiaXQjLCJ0eXAiOiJhY2Nlc3NfdG9rZW4iLCJzY29wZXMiOiI3aHlgd251dCB3cHJvIHdzGUgd3NvYyB3YWNOIHdveHkgd3RlbnSB3d2VpIHdzZXQgd3JlcYB3bG9jliwiZXhwIjojbG9jaXNlcjEjYXQjOjE2NTkzMjkxMDV9.yznnoB9klflwjEXI58CfvGfOPBYOjkFfewzqQb0sJ6c

If you have any questions or need help, please email Jixiang at jfan12@vt.edu or Yusheng at cyschris@vt.edu. Thank you!