**Facebook:**

1. Required items to post a text/media on the Facebook page/ user feed

* App to be registered
* User access token
* Facebook page id
* Page access token
* Permissions to be given to that page access token

1. Register the app using link below

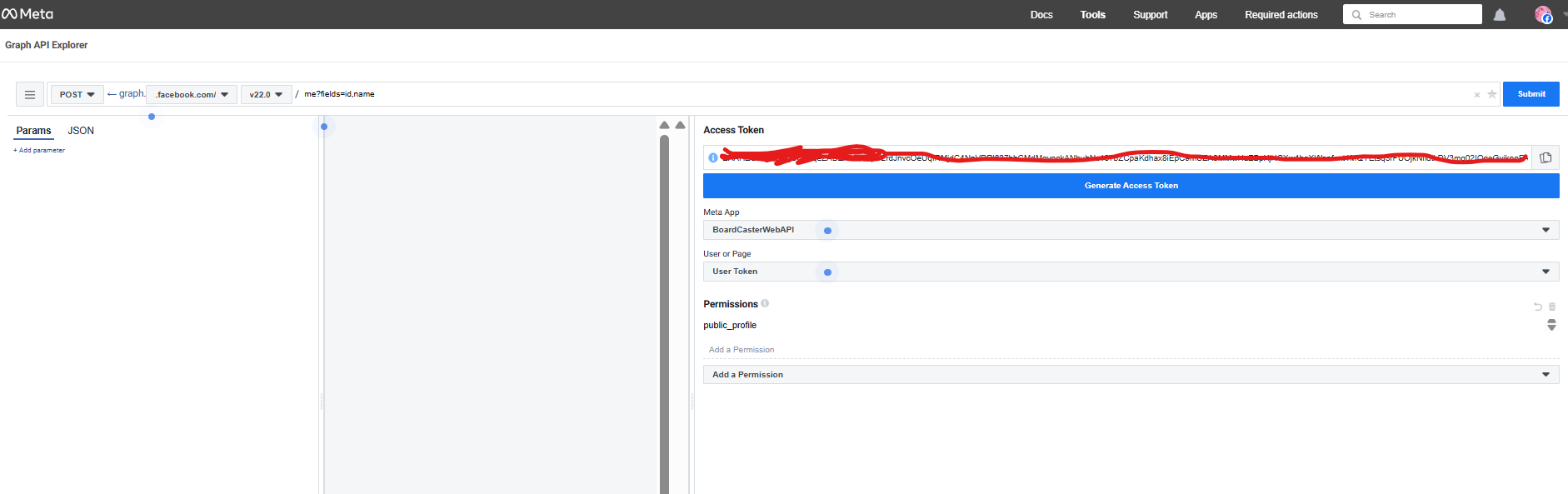
<https://developers.facebook.com/apps/?show_reminder=true>

1. Go to Dashboard -> Click on each section and walk through all the instructions -> Each step will be changed from transparent tick mark into green tick mark.

https://developers.facebook.com/apps

1. To generate User access token use link below

<https://developers.facebook.com/tools/explorer/>



1. We can debug the generated access token by using the link below

<https://developers.facebook.com/tools/debug/accesstoken/>

1. Error faced:

Get the App id under “App settings-> Basic” and replace the original app id in place of “{App Id}”

[https://www.facebook.com/v19.0/dialog/oauth?client\_id={App id}&redirect\_uri=https://localhost/callback&response\_type=token&scope=pages\_show\_list,pages\_read\_engagement,pages\_manage\_posts](https://www.facebook.com/v19.0/dialog/oauth?client_id=%7bApp%20id%7d&redirect_uri=https://localhost/callback&response_type=token&scope=pages_show_list,pages_read_engagement,pages_manage_posts)

<https://developers.facebook.com/apps/562229283557144/settings/basic/>

**This content isn't available at the moment**

Invalid Scopes: pages\_show\_list, pages\_read\_engagement, pages\_manage\_posts. This message is only shown to developers. Users of your app will ignore these permissions if present. Please read the documentation for valid permissions at: <https://developers.facebook.com/docs/facebook-login/permissions>

Go to Apps -> Dashboard -> Use cases -> Customize -> Make sure Oauth enabled

<https://developers.facebook.com/apps/562229283557144/use_cases/customize/?use_case_enum=FB_LOGIN&selected_tab=settings&product_route=fb-login>

1. **Business information can be updated**

<https://business.facebook.com/settings/info/?business_id=1334685541160475#email_updated>

1. Business help centre

<https://www.facebook.com/business/help/1095661473946872?id=180505742745347>

1. To ensure that the required permissions were granted for business

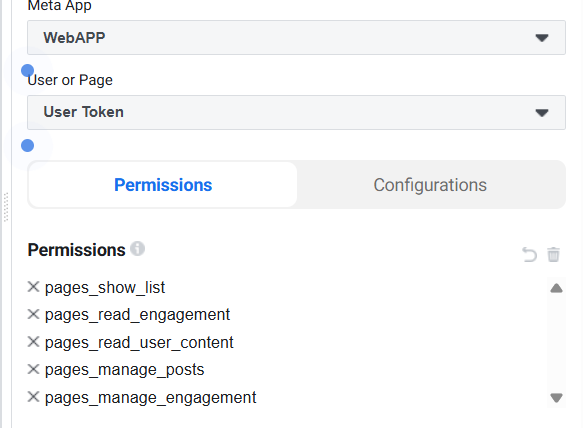
<https://www.facebook.com/settings?tab=business_tools&section=active>

1. To get page id manually from User interface

Respective page -> About-> Page transparency -> Page ID

<https://www.facebook.com/profile.php?id=61575240464563&sk=about_profile_transparency>

1. Needed permissions for the “Page access token”



1. Some of the needed Facebook API links (we need to change respective access\_token, USER-ID, client\_id, app\_id, page\_id, client\_secret )

* App Access Token :-<https://graph.facebook.com/oauth/access_token?client_id=983557583893943&client_secret=8ec11c5d2c7ff14a6df84d3e0fc44579&grant_type=client_credentials>
* Post Feed API :- <https://graph.facebook.com/v22.0/me?access_token=EAANZBilhndbcBO1gOaeZAbAkOjjh4NSutLxqZB9zDO12k6qNRBHq5SXUHWtpPKloXht2ifZCt1kOtK1ZAS8rKKXXcp5ZC29vNCKetn5zj3MGafwMJHpOoZB0PcyTJQwdlnEht8ucvTTu4wRRAOxvFUAq9t15XQXHw7t8fIekQEWPa0mDCZCrVoWcnMrBFZCcN8gU6cC6mNANOfnwWNLFWlemNvgTZBrNCRHZCfWHwZDZD>
* Check user timeline posts :- [https://graph.facebook.com/v22.0/me?fields=id,name,posts{instagram\_eligibility,message,id,created\_time}&access\_token=EAANZBilhndbcBO1gOaeZAbAkOjjh4NSutLxqZB9zDO12k6qNRBHq5SXUHWtpPKloXht2ifZCt1kOtK1ZAS8rKKXXcp5ZC29vNCKetn5zj3MGafwMJHpOoZB0PcyTJQwdlnEht8ucvTTu4wRRAOxvFUAq9t15XQXHw7t8fIekQEWPa0mDCZCrVoWcnMrBFZCcN8gU6cC6mNANOfnwWNLFWlemNvgTZBrNCRHZCfWHwZDZD](https://graph.facebook.com/v22.0/me?fields=id,name,posts%7binstagram_eligibility,message,id,created_time%7d&access_token=EAANZBilhndbcBO1gOaeZAbAkOjjh4NSutLxqZB9zDO12k6qNRBHq5SXUHWtpPKloXht2ifZCt1kOtK1ZAS8rKKXXcp5ZC29vNCKetn5zj3MGafwMJHpOoZB0PcyTJQwdlnEht8ucvTTu4wRRAOxvFUAq9t15XQXHw7t8fIekQEWPa0mDCZCrVoWcnMrBFZCcN8gU6cC6mNANOfnwWNLFWlemNvgTZBrNCRHZCfWHwZDZD)
* List of photos a person has published :- <https://graph.facebook.com/122108086634839122/photos?access_token=EAANZBilhndbcBOZCr1DBXwDYF6pHwUaifJgn49n0yYPlEEtZAcRQ2nKWWqSuEPhiv9o4t25sx0b5IGoCXZBC3vo0hPMOHjpZAoVCfx4MEEYzQ5ghS1E9neAjig1zZC6geP9j3XSgpvbF53dUphZBNLh1JM6j24fOqpsh0JYlveLxg6bHVbZCFFQjGiV49OM6m2XrunzbcbjTVKL5h1TJsTSIB1WXVjKinZCTzUAgusdWf3z9CxefXDvkPQg2OUtTYIxIkZBVrS3WZC2XdL8>
* User's name, email, and profile picture :-<https://graph.facebook.com/122108086634839122?fields=id,name,email,picture&access_token=EAANZBilhndbcBOZCr1DBXwDYF6pHwUaifJgn49n0yYPlEEtZAcRQ2nKWWqSuEPhiv9o4t25sx0b5IGoCXZBC3vo0hPMOHjpZAoVCfx4MEEYzQ5ghS1E9neAjig1zZC6geP9j3XSgpvbF53dUphZBNLh1JM6j24fOqpsh0JYlveLxg6bHVbZCFFQjGiV49OM6m2XrunzbcbjTVKL5h1TJsTSIB1WXVjKinZCTzUAgusdWf3z9CxefXDvkPQg2OUtTYIxIkZBVrS3WZC2XdL8>
* Update your email field : - <https://graph.facebook.com/122108086634839122?email=YOURNEW@EMAILADDRESS.COM&access_token=EAANZBilhndbcBOZCr1DBXwDYF6pHwUaifJgn49n0yYPlEEtZAcRQ2nKWWqSuEPhiv9o4t25sx0b5IGoCXZBC3vo0hPMOHjpZAoVCfx4MEEYzQ5ghS1E9neAjig1zZC6geP9j3XSgpvbF53dUphZBNLh1JM6j24fOqpsh0JYlveLxg6bHVbZCFFQjGiV49OM6m2XrunzbcbjTVKL5h1TJsTSIB1WXVjKinZCTzUAgusdWf3z9CxefXDvkPQg2OUtTYIxIkZBVrS3WZC2XdL8>
* Page access token : - <https://graph.facebook.com/v22.0/me/accounts?access_token=EAAKNXg4lfF0BOwqdPGXLD8OK5oEOvDplzqmHleO7Xi8Sn46FjFlR0nxABM2ckK3wrbaqodfm9NMPADnhkwez0LW2i07ZA7WIR7L0zq53IAMiyLArSBozxkUZAassFmmZCPRXyQmNU3Rh6LSu7IFBmmUJ4DvHGcHZBtl1oAykaIOqqLZCeECBSm4201CeafLR4H04jRSEfhORlJSVrA2W3JX3mOM4ZD>
* Publish the message “Hello” to a Page's feed:- <https://graph.facebook.com/v22.0/122102074508839122/feed?message=Hello&fields=created_time,from,id,message&access_token=EAAHZCWDS6jxgBO66ZCG8FxOtQynvhIkrHkpDt9MZB57SHkZBd4Uj7MZBQ52bzhL3wkV6o0BbgsbBZCaPaKeX4VYXJYSPD2xHhg5Cq89lbpMNGUKPI8vgYdQnJzsVa6ZBBntOZBYNhRebvUFmhUNffxw8cp4k2bhZA0caQ5Azy6eDcyE5S3ZAggyafYOPNofKLehb8WBs2vJkV5RQl1Of18kBgc2j0TdBTeaZBabQWPjZACmo0Qh6D40y64CITeMS6Rg37kxSSR6JQCI5YaX3>
* Get message from feed:- <https://graph.facebook.com/v22.0/651558531371342/feed?fields=created_time,from,id,message&access_token=EAAKNXg4lfF0BO67Gzg0bBDBsaa29wo6sballzTjBI5JZCuIYzZADEfRlMXLTlvVDtOrK4hnoNkTr0ORABpQlQ6pLqzV4AlntNaPZCEKqK2QA6UDKo2WkAKgaM3hsI4chnKffOyWcut7lGAJalRPz9JBm0mZBvQUHH5u9uUOBe4WVNuJIhpQpA4UEn7gZBriwvznZCb8ClJZAUEOLDpTRZAzC>
* Post message “Hello” to a user feed:- <https://graph.facebook.com/v22.0/651558531371342/feed>

**Authorization header**:

Bearer Token: lfF0BO2qr0Eks5tmzfV0wH7Lj4FZBTwGQietNxnXItZAZC2pVU4E2joLqrClrojYzsqQ3agchokoJgsnWJDEnijiw7zWaPe1WkFoHTq44mjCC7NBwCEU9jQRhm1ZAgeOnwUVcGo56hBr9KrmlF3Vkh3ZCGH4R20oE214QaTsZB62QLN7hfJT5OqYdZC9

**Body**: {

"message":"This is my first post!"

}

* To get long live token:- <https://graph.facebook.com/oauth/access_token?grant_type=fb_exchange_token&client_id=983557583893943&client_secret=8ec11c5d2c7ff14a6df84d3e0fc44579&fb_exchange_token=EAANZBilhndbcBO4V3AZCAjlr5vCOFDm2Q3k0tiVRZBdKN8yrzobQYcFxFKDNG5VR3t9GGsZAtMsRaQSzcmScANxJ5CewAfqlxC7ET6vB4zzV0PNlGx8JB3E5cxMBiUrvMXkg9u5SygcfbIhp7E5JJHFpxOpbZCNwNIb83POY8VCzhZBX2BxiSyU8QgwIrZA6xHyh1XLZCdzYIt1ksgmG2J74nWGf5DMi4TtvTZBW90OGHcikVOEPphQT8JWZA6ULftJ88toDThrGUDlTEZD>
* Get the actual page access token:- <https://graph.facebook.com/615023361698477/accounts?fields=name,access_token&access_token=EAANZBilhndbcBOxUcfLEryPZB8LLZAZCDZCcO5DZA70yqtAJsznI4GumZCXVEByhW9XEUuXr4dKreRQasIyH2J2XW9ljAPQDuqzUkZCtSnwHy8bie6OlhO7v94ZBufTd4WXfMIligdLlWan8FUKkEZABZCheW0ZB23C6rAdFSJpqyd9ogeP2SgAnpfiCIe5IX3JiVESeuxpqsn4A>

**LinkedIn**:

To post a text or text with media on LinkedIn we need below information,

1. Access token
2. Author Id
3. Post text and image (with base64 format)
4. Web API project
5. **Create access token:**

We need register our app to get a LinkedIn access token. With the access token only, we can share our post from app.

**Application/app name**: BroadCasterAPI

Follow the steps below to register app on LinkedIn developer site.

1. Go to LinkedIn developer site. Click the link below to

<https://developer.linkedin.com/>

or

<https://www.linkedin.com/developers/apps?src=li-other&veh=www.linkedin.com%7Cdirect%2Fnone>

1. Click on “Create App”. It will be redirected to the link below,

<https://www.linkedin.com/developers/apps/new>

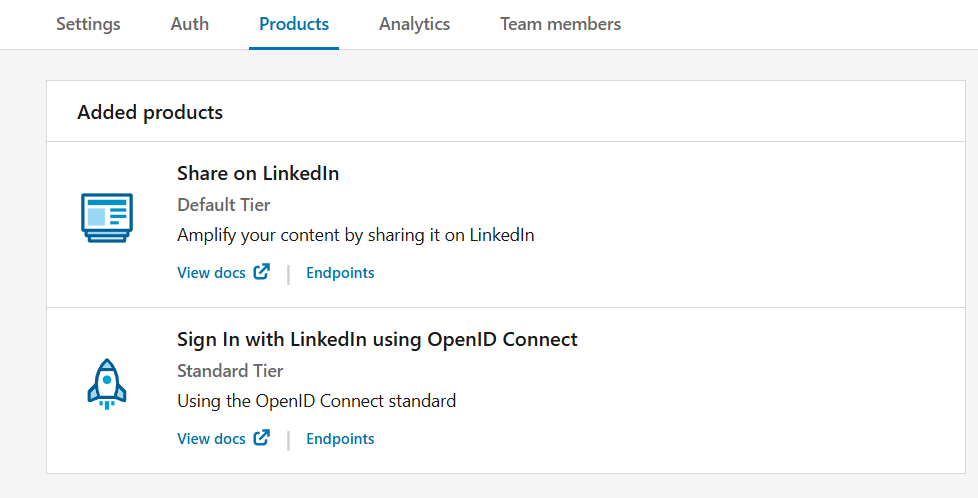
1. Fill the necessary details like company details and logo and click on “create app” button.
2. After giving app and company details, we need to provide access permission to the default features like below for the app.

<https://www.linkedin.com/developers/apps/222397834/products>

**Share on LinkedIn**

**Sign In with LinkedIn using OpenID Connect**

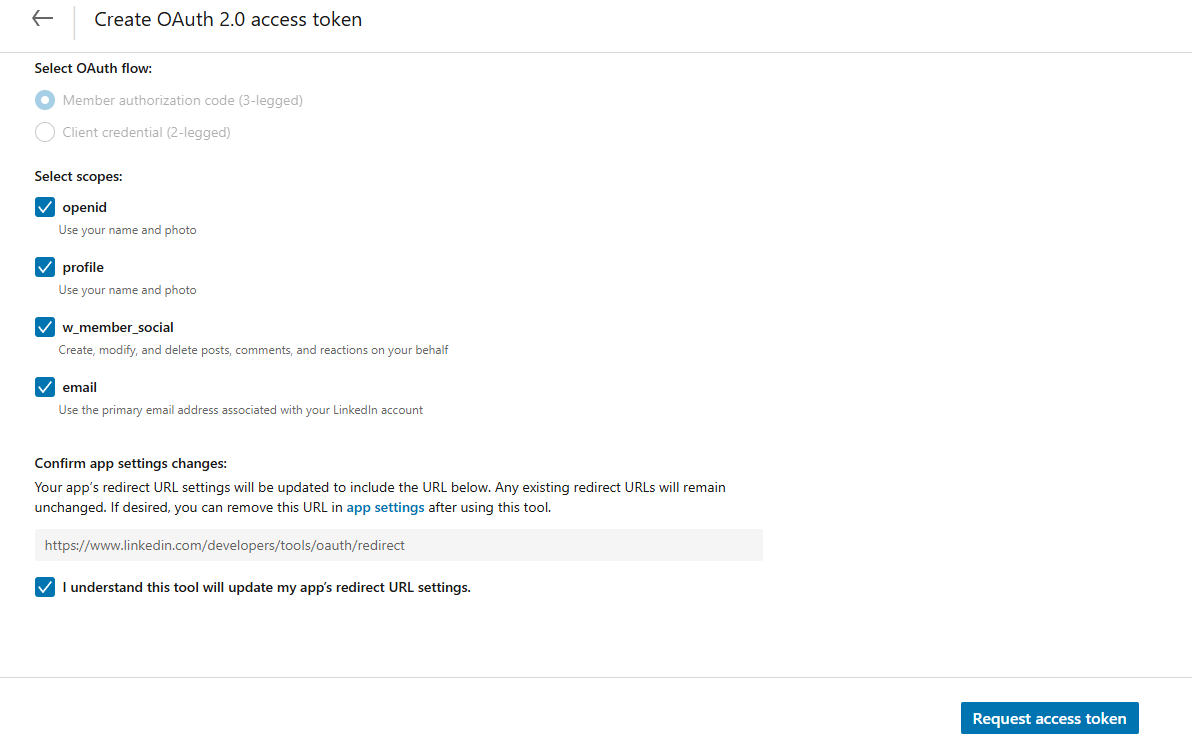
1. After giving “request access” to the default features it will be look like below



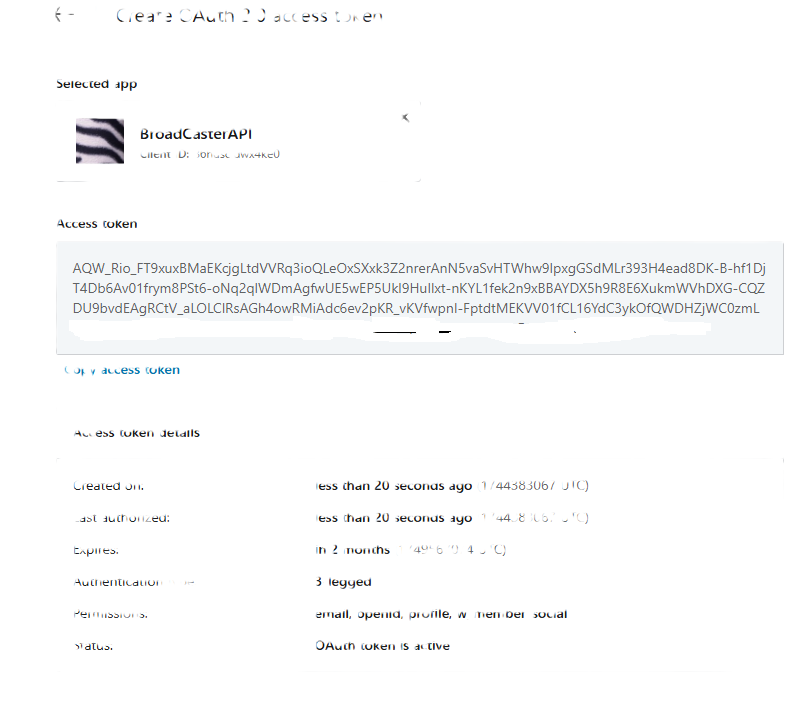
1. Create OAuth 2.0 access token. Click on link below to “create token”

<https://www.linkedin.com/developers/tools/oauth?clientId=86huscidwx4ke0>

* **Select OAuth flow:** It should be “Member authorization code (3 – legged)”
* **Select scopes:** Click on all checkboxes like below



1. Click on “Request access token” button. It will ask to login again.
2. Now you can copy the Access token



**Access token:** It looks like below, AQW\_Rio\_FT9xuxBMaEKcjgLtdVVRq3ioQLeOxSXxk3Z2nrerAnN5vaSvHTWhw9IpxgGSdMLr393H4ead8DK-B-hf1DjT4Db6Av01frym8PSt6-oNq2qlWDmAgfwUE5wEP5UkI9HuIlxt-nKYL1fek2n9xBBAYDX5h9R8E6XukmWVhDXG-CQZDU9bvdEAgRCtV\_aLOLClRsAGh4owRMiAdc6ev2pKR\_vKVfwpnI-FptdtMEKVV01fCL16YdC3ykOfQWDHZjWC0zmL

1. We can also check/inspect the details of access token with the link below,

<https://www.linkedin.com/developers/tools/oauth?clientId=78ukmc75flqcm7>

1. **Create “BroadCasterAPI” using C# web API along with Open API specification**

We have to use some of the LinkedIn API URLs to get the necessary information.

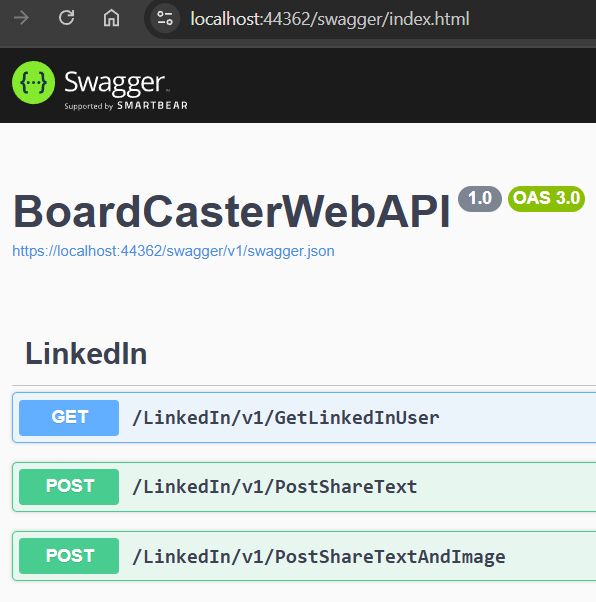
Profile information: <https://api.linkedin.com/v2/userinfo>

Post: <https://api.linkedin.com/v2/ugcPosts>

Image Upload: <https://api.linkedin.com/v2/assets?action=registerUpload>

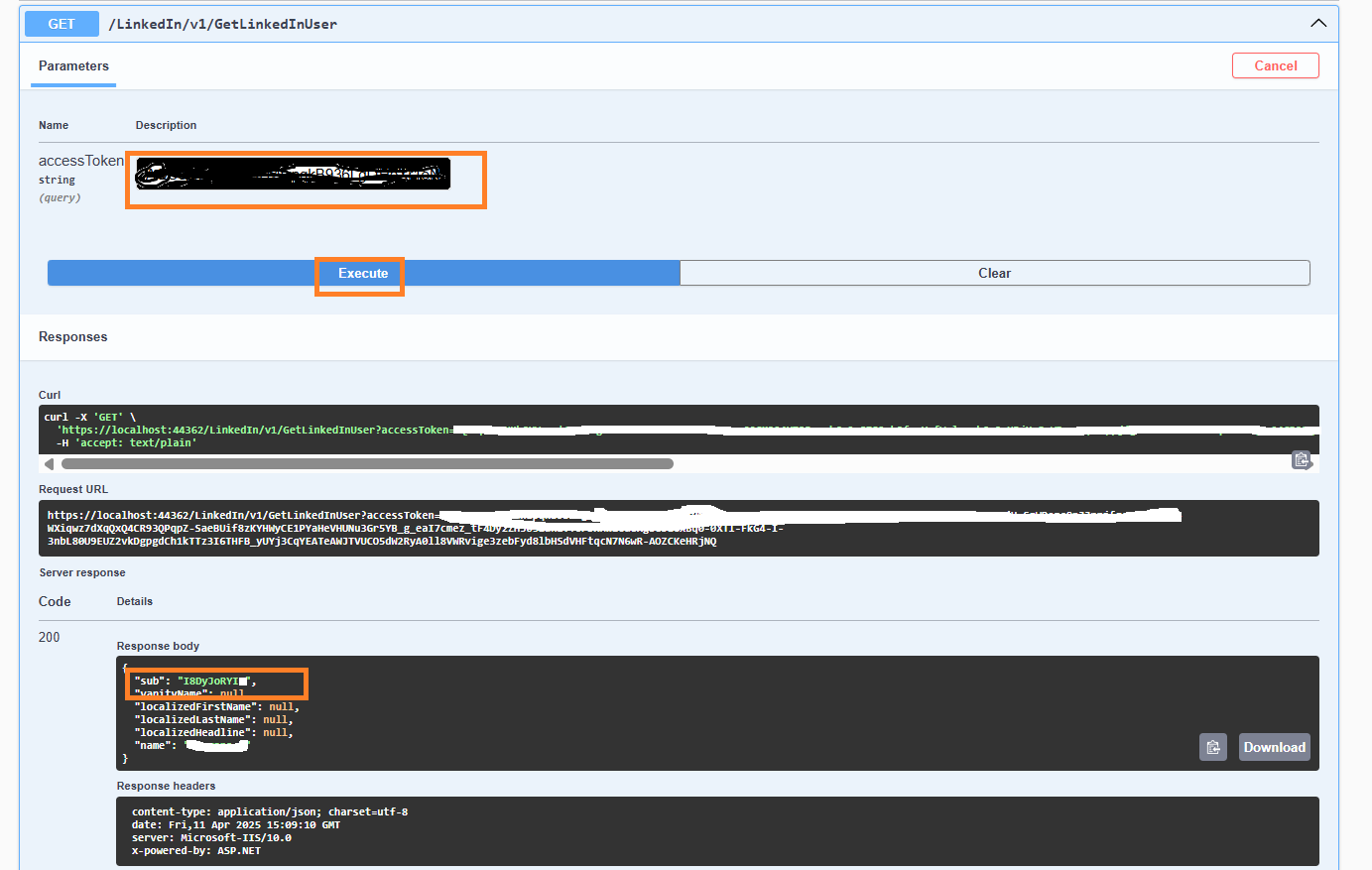
Reference link: <https://learn.microsoft.com/en-us/linkedin/consumer/integrations/self-serve/share-on-linkedin?context=linkedin%2Fconsumer%2Fcontext>

Swagger will look like below,

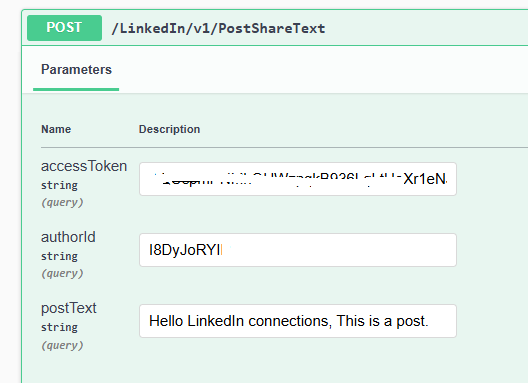


1. Get the “authorId” by using Get API end point with “access token” (got from previous step)

/LinkedIn/v1/GetLinkedInUser



1. Create a social media LinkedIn post using post text, access token and authorId (got as “**sub**” from “GetLinkedInUser” api endpoint response data)

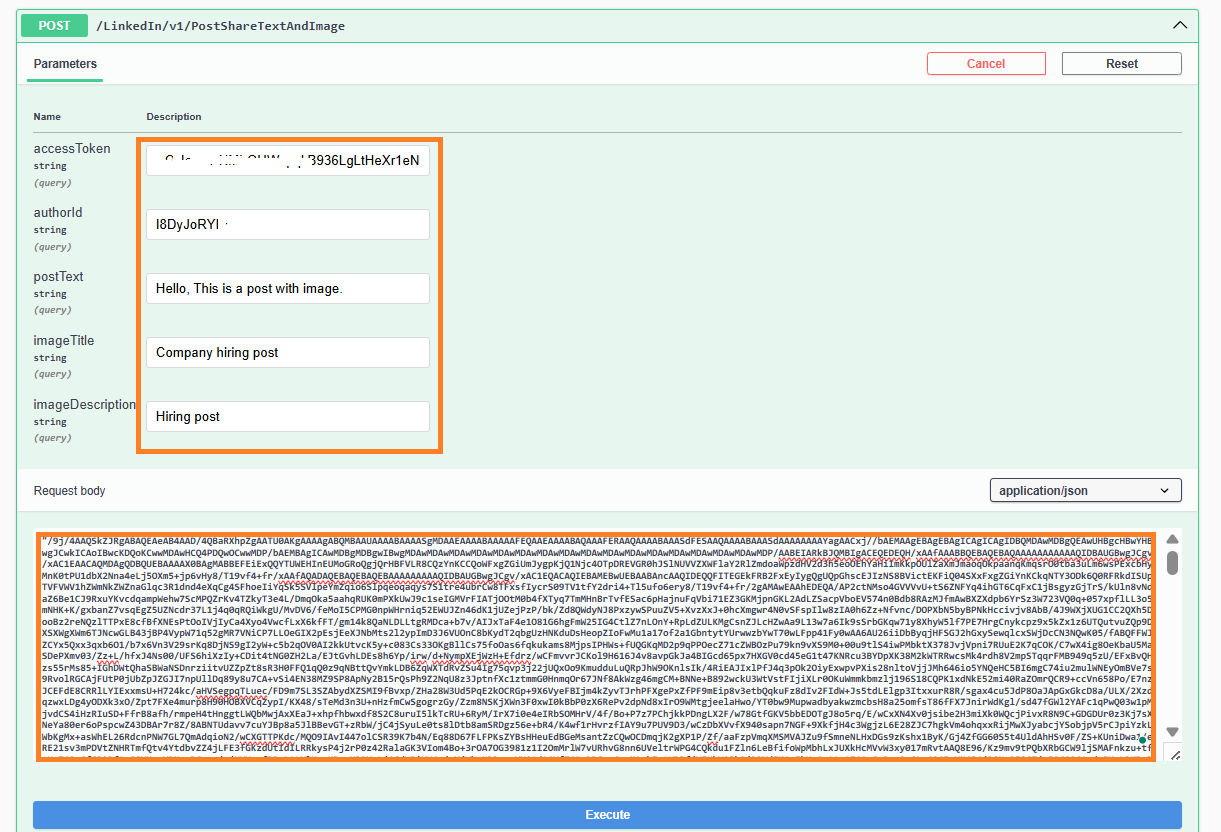


1. LinkedIn Post with image

Convert image with “base64” format and pass it as request body string along with access token, author Id, post text, image title, image description.

You can use link below to convert image to base64 format

<https://base64.guru/converter/encode/image>



1. **Check the post on LinkedIn**

Click on profile name -> Under Activity section you can see the post(s)

Example: <https://www.linkedin.com/feed/>

