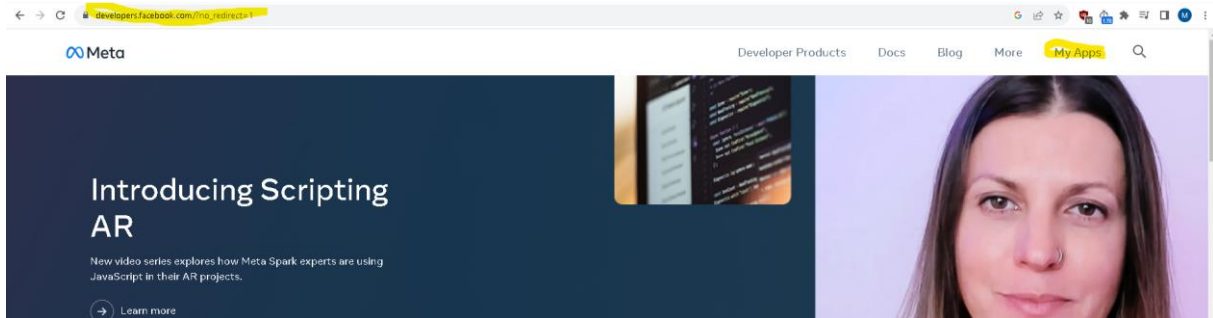


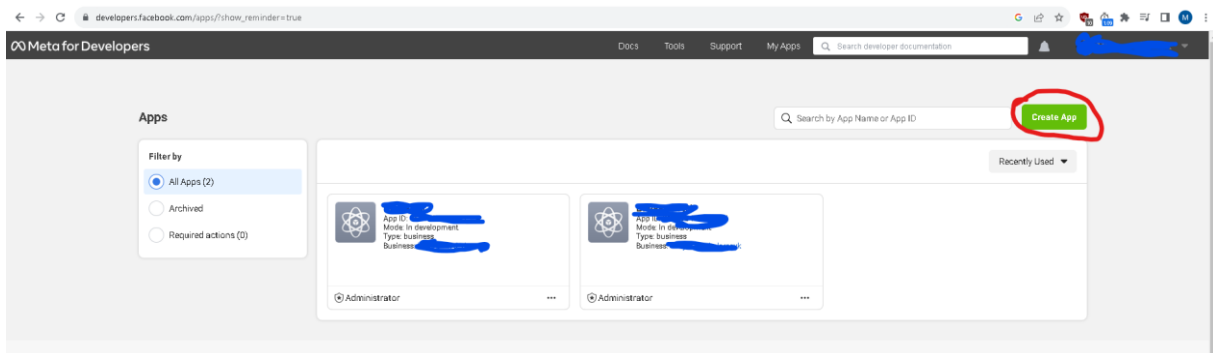
Creation of FB API key for paste into the ESP32 code

Create FB App

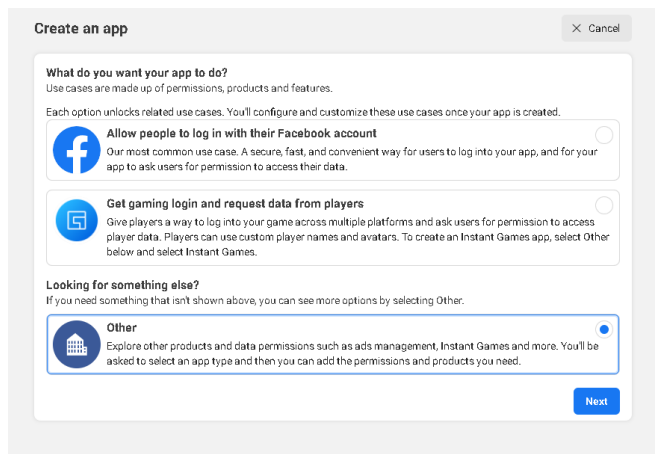
1. Login to FB developer page to create your first app.



2. Create new App.



3. Select other option to create an app.



4. Select last option where you assign all of the permissions.

Create an app [X] Cancel

Type Details

Select an app type
The app type can't be changed after your app is created. [Learn more](#)

- Firma**
Twórz zasoby firmowe, takie jak strony, wydarzenia, grupy, reklamy, Graph API Messenger, WhatsApp i Instagram, oraz zarządzaj nimi przy użyciu dostępnych uprawnień firmowych, funkcji i produktów.
- Konsument**
Połącz ze swoją aplikacją produkty konsumencie i uprawnienia, takie jak logowanie przez Facebooka oraz podstawowy widok na Instagramie.
- Gry błyskawiczne**
Utwórz gry w HTML 5 hostowaną na Facebooku.
- Gry**
Połącz gry poza platformą z Logowaniem przez Facebooka.
- Workplace**
Create enterprise tools for Workplace from Meta.
- Academic research**
Connect to Facebook data and tooling to perform research on Facebook.
- Brak** (Selected)
Create an app with combinations of consumer and business permissions and products.

Next

5. Name your application as you want (name does not matter for application functionality) and assign your business account to the application

Create an app [X] Cancel

Type **Details**

Add an app name
This is the app name that will show on your My Apps page and associated with your app ID. You can change the name later in Settings.
TestAppESP32 12/30

App contact email
This is the email address we'll use to contact you about your app. Make sure it is an address you check regularly. We may contact you about policies, app restrictions or recovery if your app is deleted or compromised.
mikromatio4@gmail.com

Business Account - Optional
Connecting a Business Account to your app is only required for certain products and permissions. You'll be asked to connect a Business Account when you request access to those products and permissions.
None

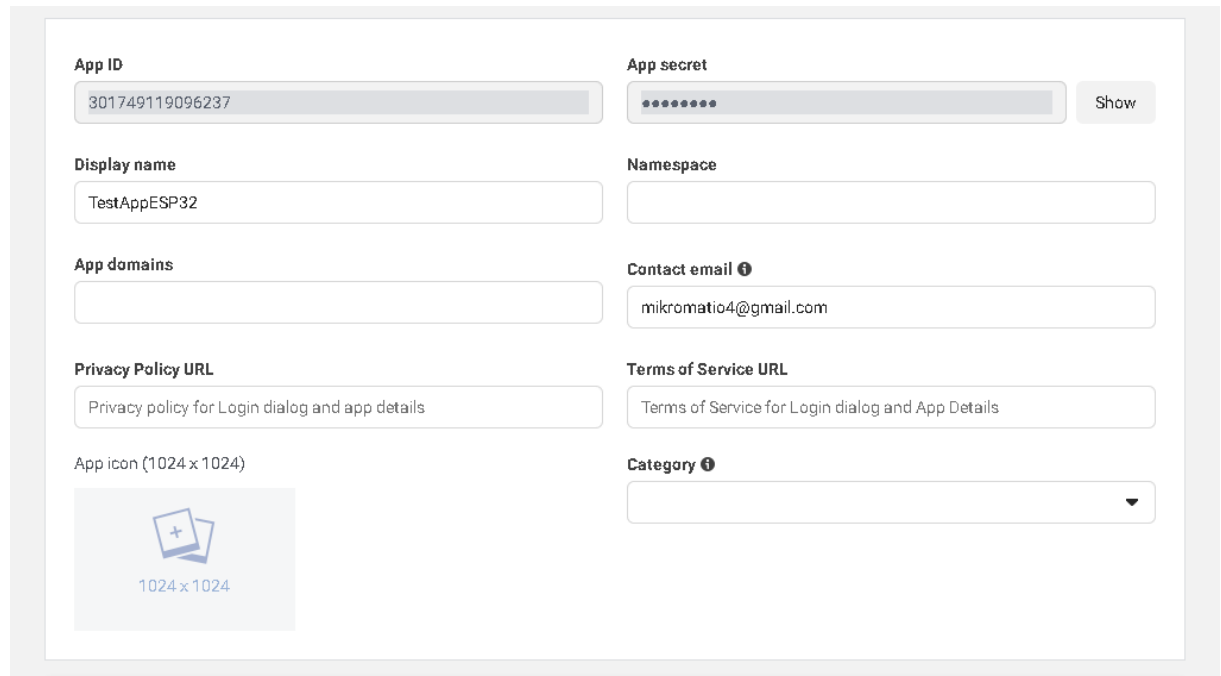
By proceeding, you agree to the [Meta Platform Terms](#) and [Developer Policies](#).

Previous **Create app**

6. Provide facebook password and your application is created.

Gathering Private data for generating API Key

7. Navigate to settings>basic – there will be App ID and APP secret. Both are needed to create an non expiring access key. Copy them and make sure that the data is in your clipboard as it will be needed few Times.



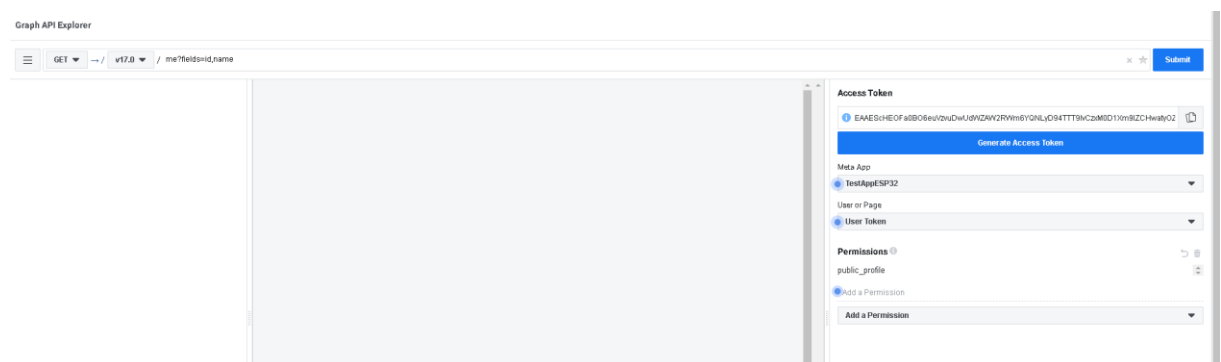
The screenshot shows the 'Basic' settings for a Facebook app. The 'App ID' is 301749119096237. The 'App secret' is masked with dots, with a 'Show' button next to it. The 'Display name' is 'TestAppESP32'. The 'Namespace' is empty. The 'App domains' field is empty. The 'Contact email' is mikromatic4@gmail.com. The 'Privacy Policy URL' is 'Privacy policy for Login dialog and app details'. The 'Terms of Service URL' is 'Terms of Service for Login dialog and App Details'. The 'App icon' section shows a placeholder for a 1024 x 1024 image. The 'Category' is set to 'Other'. A 'Submit' button is in the top right corner.

For presentation the app secret and private data will be revealed.

App ID: 301749119096237

App Secret: cada0dc8d82aa05a7873699f5d2c4fc1

8. Navigate to Graph API Explorer page on Meta for Developers - <https://developers.facebook.com/tools/explorer> and generate access token



The screenshot shows the Facebook Graph API Explorer interface. The URL bar shows a GET request to /me?fields=id,name. The main area is empty. On the right, the 'Access Token' section shows a generated token: EAHEBjHEOFaB08esVzuDwUgVZKYZRYmB7QNLjO4TTT8wCzMDT1xmBZCHmlyO2. Below this, the 'Meta App' is set to 'TestAppESP32'. The 'User or Page' is set to 'User Token'. The 'Permissions' section shows 'public_profile' selected, with an 'Add a Permission' button below it. A 'Submit' button is in the top right corner.

Important – Grant all accesses in the permission section, that your app can access the data from your FB page!

Access Token:

EAAEScHEOFa0BO6euVzvuDwUdWZAW2RWm6YQNLyD94TTT9lvCzxM0D1Xm9IZCHwatyOZC3ZCfFYB09fj8tuCWdN7qx3Uj6yFFBiqGdv6bZApxsRKkoQELG60Nwa4wCsg9MqqN9UtZCLwjprRRFf7cA9Ns0Ym4COyPdYHCF8Sokb4tBvpeNaDbTqVAKnsALZAER2oaZBN0WMCuOHOJD8qbpuNoyc3O35Tzq3HgkQXU2PsLZAd6LNzZAIkqvwmm6mQNgZDZD

9. During generation of access token the wizard will ask which FB account should have access to manage target page. Select account that is administrating the page.

Generate permanent access token

10. Create the GET request as per pattern below – all can be done in browser – remember that access token that you have generated is short-lived so it means it will last 30 minutes.

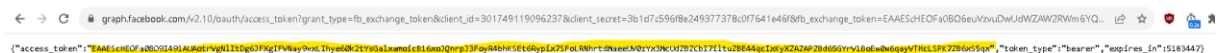
Pattern is

https://graph.facebook.com/v2.10/oauth/access_token?grant_type=fb_exchange_token&client_id={app_id}&client_secret={app_secret}&fb_exchange_token={short_lived_token}

In our case the get query will look like this:

https://graph.facebook.com/v2.10/oauth/access_token?grant_type=fb_exchange_token&client_id=301749119096237&client_secret=cada0dc8d82aa05a7873699f5d2c4fc1&fb_exchange_token=EAAEScHEOFa0BO6euVzvuDwUdWZAW2RWm6YQNLyD94TTT9lvCzxM0D1Xm9IZCHwatyOZC3ZCfFYB09fj8tuCWdN7qx3Uj6yFFBiqGdv6bZApxsRKkoQELG60Nwa4wCsg9MqqN9UtZCLwjprRRFf7cA9Ns0Ym4COyPdYHCF8Sokb4tBvpeNaDbTqVAKnsALZAER2oaZBN0WMCuOHOJD8qbpuNoyc3O35Tzq3HgkQXU2PsLZAd6LNzZAIkqvwmm6mQNgZDZD

11. Paste your combination into address bar in your browser. You will get JSON response with Long-live access token which lasts around 60 days



```
{"access_token":"EAAEScHEOFa0BO9I491AUAotrVgNlItDg6JFXglFVNay9vxLIhye60k2tYsGalxamoicB16xoJQnrpJ3FoyR4bhKSEt6Rypix7SfoLrNhrtdMaeUUV0zYx3McUdZBZCb7iltuZBE44qclxKyXZAZAPZBd65GYrV1BoEw0w6qayVTHclSPK7ZB6xS5qx","token_type":"bearer","expires_in":5183447}
```

Long combination marked on yellow is your Long-lived token for your app

In case of this guide it is:

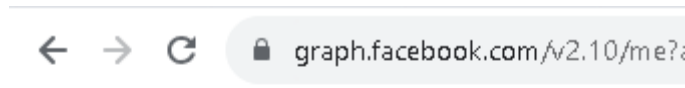
EAAEScHEOFa0BO9I491AUAotrVgNlItDg6JFXglFVNay9vxLIhye60k2tYsGalxamoicB16xoJQnrpJ3FoyR4bhKSEt6Rypix7SfoLrNhrtdMaeUUV0zYx3McUdZBZCb7iltuZBE44qclxKyXZAZAPZBd65GYrV1BoEw0w6qayVTHclSPK7ZB6xS5qx

12. Get User ID for the application – perform GET request similar as above with different pattern.

https://graph.facebook.com/v2.10/me?access_token={long_lived_access_token}

In our case:

https://graph.facebook.com/v2.10/me?access_token=EAAEScHEOFa0BO9I491AUAotrVgNlItDg6JFXglFVNay9vxLIhye60k2tYsGalxamoicB16xoJQnrpJ3FoyR4bhKSEt6Rypix7SFoLRNhrtdMaeeUV0zYx3McUdZBZCbI7iltuZBE44qclxKyXZAZAPZBd65GYrV1BoEw0w6qayVTHclSPK7ZB6xS5qx



```
{  
  "name": "██████████",  
  "id": "██████████",  
}
```

The ID page is needed – I have hidden the name and ID as these are my private FB ID and Name

13. Generate permanent access token – similar as above it is based on GET query to the Graph API. The pattern is:

https://graph.facebook.com/v2.10/{account_id}/accounts?access_token={long_lived_access_token}

The final response from Graph API will provide permanent access token which is user in the .ino file for ESP32. Our response looks like:

```
{  
  "data": [  
    {  
      "access_token": "EAAEScHEOFa0BOzTUDQrZBilfNol6Od44xZCaTPmoZBgZADu49XUmGSd4brZCY80cfBverS6cxxdEPabkFu5Y24vFtrIqV8r51b5m0NXJuKh0ZCvC9JkV5aapV8a7QskVFfaNjCCtGGTREP8LzcZCGj6oCUssLccZAB09MUy2a2viRUIf70ZBe68QRbNTewjNIEZD",  
      "category": "Hierarchical",  
      "category_list": [  
        {  
          "id": "10832773511960",  
          "name": "Hierarchical"   
        }  
      ],  
      "name": "Test ESP32",  
      "id": "110967215429960",  
      "tasks": [  
        "ADVERTISE",  
        "ANALYZE",  
        "CREATE_CONTENT",  
        "MESSAGING",  
        "MODERATE",  
        "MANAGE"  
      ]  
    }  
  ],  
}
```

The access token on the very top is the permanent token.

In this case it is:

EAAEScHEOFa0BOzTUDQrZBilfNol6Od44xZCaTPmoZBgZADu49XUmGSd4brZCY80cfBverS6cxxdEPabkFu5Y24vFtrIqV8r51b5m0NXJuKh0ZCvC9JkV5aapV8a7QskVFfaNjCCtGGTREP8LzcZCGj6oCUssLccZAB09MUy2a2viRUIf70ZBe68QRbNTewjNIEZD

It can be now entered into the pattern for code:

https://graph.facebook.com/715898955258141?access_token=<permanentToken>&fields=fan_count,followers_count&fields=fan_count,followers_count

See sample response :

```
{  
  "fan_count": 1770,  
  "followers_count": 1818,  
  "id": "████████████████████"  
}
```

Important – You can have only 1 page assigned to your account – if you are managing 2 pages or more you need to create individual account to track the like and follow count.

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