

# Python: Facebook Graph API

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## How to Publish a Facebook Page Post Using the Facebook Graph API in Python

### Overview of Facebook Graph API

- **Facebook Graph API:** Allows developers to interact with Facebook's platform using code.

#### resources:

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

```
import requests # Import the requests library to handle HTTP requests

def get_page_access_token(page_id, user_access_token):
    """
    Function to retrieve the Page Access Token using the user access token and
    page ID.
    """

    # Define the Graph API version and construct the API URL to request the Page
    # Access Token
    version = 'v20.0'
    api_url_token = f'https://graph.facebook.com/{version}/{page_id}?
fields=access_token&access_token={user_access_token}'

    try:
        # Make a GET request to the Facebook Graph API to fetch the Page Access
        # Token
        response = requests.get(api_url_token)
        response.raise_for_status() # Raise an exception if the request returns
        # an HTTP error

        # Parse the response as JSON and return the access token
        data = response.json()
        return data['access_token']
    except requests.exceptions.RequestException as e:
        # Handle any exceptions (e.g., network issues, API errors) and print the
        # error
        print("Error:", e)
        return None # Return None if the access token retrieval fails

def post_fb(page_id, page_access_token):
    """
    Function to publish a post to the Facebook Page using the Page Access Token.
    """
```

```
message = 'Hello, World' # The message that will be posted to the Facebook
Page

# Construct the URL for the POST request to the page's feed
url = f'https://graph.facebook.com/v20.0/{page_id}/feed'

# Define the payload (message and access token) that will be sent in the POST
request
payload = {
    'message': message,
    'access_token': page_access_token
}

# Make the POST request to the Facebook Graph API to publish the post
response = requests.post(url, data=payload)

# Check the response status and print a success or failure message accordingly
if response.status_code == 200:
    print("Post successfully published!")
else:
    print(f"Failed to post: {response.status_code}")
    print(response.json()) # Print the error details from the API response

# User access token (replace with your actual user access token)
user_access_token = 'your_access_token_here'

# Facebook Page ID (replace with your actual page ID)
page_id = 'your_page_id_here'

# Retrieve the Page Access Token using the user access token and page ID
page_access_token = get_page_access_token(page_id, user_access_token)

# If the Page Access Token was successfully retrieved, publish the post
if page_access_token:
    post_fb(page_id, page_access_token)
else:
    print("Failed to obtain Page Access Token.") # Print an error if the token
retrieval fails
```

### Explanation:

- **get\_page\_access\_token:** This function requests the Page Access Token from Facebook's Graph API using a user access token and page ID. The function handles errors and returns the token if successful.
- **post\_fb:** This function uses the Page Access Token to publish a post to the specified Facebook Page by making a POST request to the Graph API's feed endpoint.
- **Main Script:** After fetching the Page Access Token, the script attempts to post a message to the page. If the token retrieval fails, an error message is displayed.