

## Lab 2 : Querying user's connection information using facebook graph API and retrieving feed and engagement

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### Step 1

In [1]:

```
ACCESS_TOKEN = "EAAEqgZBiuVR8BAGeFZAZAwZApSHHTY8qdYZAcPwMau8ovxxNWQ9SgyZCMqUxpcCAwtYLIItNN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2d
```

In [2]:

```
! pip install facebook-sdk
```

```
Requirement already satisfied: facebook-sdk in c:\anaconda\pspr\lib\site-packages (3.1.0)
Requirement already satisfied: requests in c:\anaconda\pspr\lib\site-packages (from facebook-sdk) (2.27.1)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\anaconda\pspr\lib\site-packages (from requests->facebook-sdk) (1.26.9)
Requirement already satisfied: certifi>=2017.4.17 in c:\anaconda\pspr\lib\site-packages (from requests->facebook-sdk) (2022.12.7)
Requirement already satisfied: charset-normalizer~=2.0.0 in c:\anaconda\pspr\lib\site-packages (from requests->facebook-sdk) (2.0.4)
```

```
[notice] A new release of pip is available: 23.1.2 -> 23.2
[notice] To update, run: python.exe -m pip install --upgrade pip
```

```
Requirement already satisfied: idna<4,>=2.5 in c:\anaconda\pspr\lib\site-packages (from requests->facebook-sdk) (2.10)
```

### Step 2: Install the necessary libraries

In [3]:

```
import facebook
import urllib3
import requests
import json
```

### Step 3: Querying the graph API with python

In [4]:

```
def pp(o):
    print(json.dumps(o,indent=1))
# create a Connection to the Graph API with access token
g = facebook.GraphAPI(ACCESS_TOKEN,version='2.10')
# get my ID
pp(g.get_object('me'))
```

```
{
  "name": "Ezhil C",
  "id": "101458556368842"
}
```

**Step 4: Get the user's connection names -likes,friends feed, group- This may require permissions**

In [5]:

```
pp(g.get_connections(id='me',connection_name = 'likes'))
```

```
{
  "data": [
    {
      "name": "Actor Vijay",
      "id": "584512021569368",
      "created_time": "2023-07-19T07:21:26+0000"
    },
    {
      "name": "Nelson Dilipkumar",
      "id": "1872288492999080",
      "created_time": "2023-07-19T06:34:25+0000"
    },
    {
      "name": "Anirudh Ravichander",
      "id": "219819918089278",
      "created_time": "2023-07-19T06:34:12+0000"
    },
    {
      "name": "Lokesh Kanagaraj",
      "id": "110224217158179",
      "created_time": "2023-07-19T06:33:36+0000"
    },
    {
      "name": "Virat Kohli",
      "id": "326546224099154",
      "created_time": "2023-07-19T06:33:23+0000"
    },
    {
      "name": "MS Dhoni",
      "id": "1710096432546912",
      "created_time": "2023-07-19T06:32:30+0000"
    }
  ],
  "paging": {
    "cursors": {
      "before": "NTg0NTEyMDIxNTY5MzY4",
      "after": "MTcxMDA5NjQzMjU0NjkxMgZDZD"
    }
  }
}
```

In [6]:

```
pp(g.get_connections(id='me',connection_name = 'friends'))
```

```
{
  "data": [],
  "summary": {
    "total_count": 3
  }
}
```

In [7]:

```
pp(g.get_connections(id='me',connection_name='feed'))
```

```
{
  "data": [
    {
      "created_time": "2002-10-28T08:00:00+0000",
      "id": "101458556368842_101434776371220"
    }
  ],
  "paging": {
    "previous": "https://graph.facebook.com/v17.0/101458556368842/feed?access_token=EAAEqgZBiuVR8BAGeFZAZAwZapsHHTY8qdYZAcPwMa80vxxNWQ9SgyZCMqUxpcCAwtYLItnN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2o8mCaSvjaB8upg1w06MfsrowKftg0easIZCYf8v7QTtEcDuPtayazNNPQJNaUmmcWrqejiEx8i5e0aBV88wh99acbGrTIwliM7sowH9NtI5jox9YnldrPv4f75SUy67ghr1DwAUGCRgsZD&__previous=1&since=1035792000&until&__paging_token=enc_AdAiicIKFcKigxmd9FM0lZA8h7NoswJsKoWYwzP0E7Txz3YhPA6Pc2v0vZA2L1jpZCPNLWFwNmQa3hihu05ksYftfcIY5LC1PN8yz81NZCUVDtkRwZDZD",
    "next": "https://graph.facebook.com/v17.0/101458556368842/feed?access_token=EAAEqgZBiuVR8BAGeFZAZAwZapsHHTY8qdYZAcPwMa80vxxNWQ9SgyZCMqUxpcCAwtYLItnN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2o8mCaSvjaB8upg1w06MfsrowKftg0easIZCYf8v7QTtEcDuPtayazNNPQJNaUmmcWrqejiEx8i5e0aBV88wh99acbGrTIwliM7sowH9NtI5jox9YnldrPv4f75SUy67ghr1DwAUGCRgsZD&until=1035792000&since&__paging_token=enc_AdAiicIKFcKigxmd9FM0lZA8h7NoswJsKoWYwzP0E7Txz3YhPA6Pc2v0vZA2L1jpZCPNLWFwNmQa3hihu05ksYftfcIY5LC1PN8yz81NZCUVDtkRwZDZD&__previous"
  }
}
```

In [8]:

```
pp(g.get_connections(id='me',connection_name='groups'))
```

```
{
  "data": [
    {
      "name": "Python Machine Learning",
      "id": "699038760180241"
    },
    {
      "name": "Python Machine Learning & Deep Learning",
      "id": "1583643181679576"
    },
    {
      "name": "MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE PROFESSIONALS GROUP",
      "id": "197964893963666"
    }
  ],
  "paging": {
    "cursors": {
      "before": "QVFIUmNldHBNTBtd21CQWZAFN0pMcHZACXzU3aGlJUmVGYkVsVG1BTmRLTzQtQjNBdFhLVGxSSkg2bzNFcmkzc082LXRpYzRXRnR1SG0tQXBhZAlJQUUxYmJhZ3",
      "after": "QVFIUmF2UzJUQ0VEYmxjdXR2d1k2UHUYxUXM2cHBtNk12a3ZAhMTNmZAKlYRzFkWWFsemZAYcmRBNTNhYV1YLUhVW1ltn21xYXVjS1NlMVVtck80UGlJSkY2M0Nn"
    }
  }
}
```

### Step 5: Get information about a feed in your facebook page

In [9]:

```
pp(g.get_connections(id='me', connection_name='feed', fields='message,created_time', limit='100'))
```

```
{
  "data": [
    {
      "created_time": "2002-10-28T08:00:00+0000",
      "id": "101458556368842_101434776371220"
    }
  ],
  "paging": {
    "previous": "https://graph.facebook.com/v17.0/101458556368842/feed?access_token=EAAEqgZBiuVR8BAGeFZAZAwZapsHHTY8qdYZAcPwMau8ovxxNWQ9SgyZCMqUxpcCAwtYLItnN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2o8mCaSvjaB8upg1w06MfsrowKftg0easIZCYf8v7QTEcDuptayazNNPQJNaUmmCWqrjeIex8i5e0aBV88wh99acbGrtIwliM7sowH9NtI5jox9YnldrPv4f75SUy67ghr1DwAUGCRgsZD&fields=message%2Ccreated_time&__previous=1&since=1035792000&until=&__paging_token=enc_AdAiicIKFcKigxmd9FM0lZA8h7NoswJsKowYwzP0E7Txz3YhPA6Pc2v0vZA2LljpZCPNLWFwNmQa3hihu05ksYftfCiY5LC1PN8yz8lNZCUVdTKRwZDZD",
    "next": "https://graph.facebook.com/v17.0/101458556368842/feed?access_token=EAAEqgZBiuVR8BAGeFZAZAwZapsHHTY8qdYZAcPwMau8ovxxNWQ9SgyZCMqUxpcCAwtYLItnN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2o8mCaSvjaB8upg1w06MfsrowKftg0easIZCYf8v7QTEcDuptayazNNPQJNaUmmCWqrjeIex8i5e0aBV88wh99acbGrtIwliM7sowH9NtI5jox9YnldrPv4f75SUy67ghr1DwAUGCRgsZD&fields=message%2Ccreated_time&until=1035792000&since=&__paging_token=enc_AdAiicIKFcKigxmd9FM0lZA8h7NoswJsKowYwzP0E7Txz3YhPA6Pc2v0vZA2LljpZCPNLWFwNmQa3hihu05ksYftfCiY5LC1PN8yz8lNZCUVdTKRwZDZD&__previous="
  }
}
```

### Step 6: Get the metrics towards engagement of connections towards your facebook post

In [10]:

```
pp(g.get_connections(id='me', connection_name='posts', fields='caption,created_time,description', limit='100'))
```

```
{
  "data": [
    {
      "caption": "Born",
      "created_time": "2002-10-28T08:00:00+0000",
      "id": "101458556368842_101434776371220"
    }
  ],
  "paging": {
    "previous": "https://graph.facebook.com/v17.0/101458556368842/posts?access_token=EAAEqgZBiuVR8BAGeFZAZAwZapsHHTY8qdYZAcPwMau8ovxxNWQ9SgyZCMqUxpcCAwtYLItnN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2o8mCaSvjaB8upg1w06MfsrowKftg0easIZCYf8v7QTEcDuptayazNNPQJNaUmmCWqrjeIex8i5e0aBV88wh99acbGrtIwliM7sowH9NtI5jox9YnldrPv4f75SUy67ghr1DwAUGCRgsZD&fields=caption%2Ccreated_time%2Cdescription&__previous=1&since=1035792000&until=&__paging_token=enc_AdAiicIKFcKigxmd9FM0lZA8h7NoswJsKowYwzP0E7Txz3YhPA6Pc2v0vZA2LljpZCPNLWFwNmQa3hihu05ksYftfCiY5LC1PN8yz8lNZCUVdTKRwZDZD",
    "next": "https://graph.facebook.com/v17.0/101458556368842/posts?access_token=EAAEqgZBiuVR8BAGeFZAZAwZapsHHTY8qdYZAcPwMau8ovxxNWQ9SgyZCMqUxpcCAwtYLItnN7Y0ahUE4VdsmbLSYQUJZApXdASSI8Gv5ZCE5YkIH0z43F22S2o8mCaSvjaB8upg1w06MfsrowKftg0easIZCYf8v7QTEcDuptayazNNPQJNaUmmCWqrjeIex8i5e0aBV88wh99acbGrtIwliM7sowH9NtI5jox9YnldrPv4f75SUy67ghr1DwAUGCRgsZD&fields=caption%2Ccreated_time%2Cdescription&until=1035792000&since=&__paging_token=enc_AdAiicIKFcKigxmd9FM0lZA8h7NoswJsKowYwzP0E7Txz3YhPA6Pc2v0vZA2LljpZCPNLWFwNmQa3hihu05ksYftfCiY5LC1PN8vz8lNZCUVdTKRwZDZD&__previous="
  }
}
```

In [ ]:

