Lab2. Querying user's connection using Facebook using the Graph API and retrieving feed and engagement

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step 1

```
In [17]: ACCESS_TOKEN = "EAAIrmUmPQ18BADeApDsSBsRzu1xWtvmhAb0LGxJ8CAd3iBZAzkQFdQcmw7j9AK
```

```
In [14]: !pip install facebook-sdk
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: facebook-sdk in c:\users\user\appdata\roaming
\python\python39\site-packages (3.1.0)
Requirement already satisfied: requests in c:\programdata\anaconda3\lib\site-
packages (from facebook-sdk) (2.28.1)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\s
ite-packages (from requests->facebook-sdk) (3.3)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3
\lib\site-packages (from requests->facebook-sdk) (2022.9.14)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anacon
da3\lib\site-packages (from requests->facebook-sdk) (1.26.11)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\ana
conda3\lib\site-packages (from requests->facebook-sdk) (2.0.4)
```

step 2

```
In [15]: import facebook
         import urllib3
         import requests
         import json
```

step 3

```
In [18]:  def pp(o):
              print(json.dumps(o, indent=1))
          g=facebook.GraphAPI(ACCESS_TOKEN, version='2.10')
          pp(g.get_object('me'))
```

```
{
 "name": "Thenkuzhali S",
 "id": "101313633049844"
}
```

step 4: Get the user's connection names - likes, friends, feed, groups

```
In [27]:  pp(g.get_connections(id = 'me', connection_name='likes'))
```

```
{
 "data": [
  {
   "name": "Machine Learning Mastery",
   "id": "1429846323896563",
   "created_time": "2023-07-19T09:29:05+0000"
  }
 ],
 "paging": {
  "cursors": {
   "before": "MTQyOTg0NjMyMzg5NjU2MwZDZD",
   "after": "MTQyOTg0NjMyMzg5NjU2MwZDZD"
  }
 }
}
```

```
In [25]:  pp(g.get_connections(id = 'me', connection_name='friends'))
```

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

```
In [23]: pp(g.get_connections(id = 'me', connection_name='feed'))
```

```
{
 "data": [
  {
   "created_time": "2023-07-19T09:17:48+0000",
   "message": "Querying user\u2019s connection information using Facebook Gra
ph API and retrieving feed and engagement",
   "id": "101313633049844_101384549709419"
  },
  {
   "created_time": "2023-07-19T06:46:21+0000",
   "id": "101313633049844_101299859717888"
  },
  {
   "created_time": "2002-03-31T08:00:00+0000",
   "id": "101313633049844_101295999718274"
  }
 ],
 "paging": {
  "previous": "https://graph.facebook.com/v17.0/101313633049844/feed?access_t
oken=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSG
vVYg41bF6PqTqsSDmlNwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a31
0bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9M
kTZBcF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&__previous=1&since=1689758268&until
&__paging_token=enc_AdC574kkJPES4pZBs0yNZAFY9tTWKHpZAjbzGjwmOjKwh8Cpkr4g00zdk
WL58KtY2gEs1QcmCS4xhI1aEZBkra7dhYwncZCeoecWGPIE3ZBy5UZBn645AZDZD",
  "next": "https://graph.facebook.com/v17.0/101313633049844/feed?access_token
=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg
41bF6PqTqsSDmlNwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZB
WZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9MkTZB
cF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&until=1017561600&since&__paging_token=e
nc_AdBUGNOgokBcPsZBjbYA3jQ8nH5UwGWjjCapsQysOBrmbDHgBFtRLGoy4j56sC04QTlKzfS1fu
3hShLU6ZB2VqPQJDK0j37Bw7Gfe9Tan0aqIXYgDZDZD&__previous"
  }
}
```

In [24]:
```python
pp(g.get_connections(id = 'me', connection_name='groups'))
```

```
{
 "data": [
  {
   "name": "Python Machine Learning",
   "id": "699038760180241"
  },
  {
   "name": "MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE PROFESSIONALS GROU
P",
   "id": "197964893963666"
  },
  {
   "name": "Artificial intelligence, Machine learning, Deep learning",
   "id": "2059467967664033"
  }
 ],
 "paging": {
  "cursors": {
   "before": "QVFIUjg1WmVya0wxZAXBnSTRMdnhZAWUhfZAk1LbGJEbFlVekRITVg2SkozM2ls
SWE4eVYtRUpnMTVKejVMOEJVZAWZA2cm96X0ptOXBnanA5WFFobmE4c2ZAIa2hn",
   "after": "QVFIUmFvalRzRVRTcVF1emNTRXc0UkxkMVBZAdFFCX2dhSWVOX0ZAKQmFoOUpaNV
lWSmJWbUJtLVY4TWVMTlc5MEJBZAUo1VWtYV2hycGRuVE9XQUxzUkN3c29n"
  }
 }
}
```

step 5: Get information about a feed in your facebook post

In [30]: `pp(g.get_connections(id = 'me', connection_name='feed'))`

```
{
 "data": [
  {
   "created_time": "2023-07-19T09:50:01+0000",
   "message": "cute dog Shirley Shirley",
   "id": "101313633049844_101400603041147"
  },
  {
   "created_time": "2023-07-19T09:17:48+0000",
   "message": "Querying user\u2019s connection information using Facebook Gra
ph API and retrieving feed and engagement",
   "id": "101313633049844_101384549709419"
  },
  {
   "created_time": "2023-07-19T06:46:21+0000",
   "id": "101313633049844_101299859717888"
  },
  {
   "created_time": "2002-03-31T08:00:00+0000",
   "id": "101313633049844_101295999718274"
  }
 ],
 "paging": {
  "previous": "https://graph.facebook.com/v17.0/101313633049844/feed?access_t
oken=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSG
vVYg41bF6PqTqsSDmlNwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a31
0bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9M
kTZBcF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&__previous=1&since=1689760201&until
&__paging_token=enc_AdA6IZByKUG8ZAuovVsmvqqWrSswcxMLrGlULdO0MaUZAEQfpVqyY4ZCt
vA3sezObxE49udWQZCUlk2CitlRdWDxlCUvT5isazjT70a4Ko7vBuuuhgQZDZD",
  "next": "https://graph.facebook.com/v17.0/101313633049844/feed?access_token
=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg
41bF6PqTqsSDmlNwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZB
WZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9MkTZB
cF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&until=1017561600&since&__paging_token=e
nc_AdBUGNOgokBcPsZBjbYA3jQ8nH5UwGWjjCapsQysOBrmbDHgBFtRLGoy4j56sC04QTlKzfS1fu
3hShLU6ZB2VqPQJDK0j37Bw7Gfe9Tan0aqIXYgZDZD&__previous"
 }
}
```

step 6: Get the metric towards engagement of connections towards your Facebook

```
In [35]: pp(g.get_connections(id = 'me', connection_name='posts'))
```

```
{
 "data": [
  {
   "created_time": "2023-07-19T09:50:01+0000",
   "message": "cute dog Shirley Shirley",
   "id": "101313633049844_101400603041147"
  },
  {
   "created_time": "2023-07-19T09:17:48+0000",
   "message": "Querying user\u2019s connection information using Facebook Gra
ph API and retrieving feed and engagement",
   "id": "101313633049844_101384549709419"
  },
  {
   "created_time": "2023-07-19T06:46:21+0000",
   "id": "101313633049844_101299859717888"
  },
  {
   "created_time": "2002-03-31T08:00:00+0000",
   "id": "101313633049844_101295999718274"
  }
 ],
 "paging": {
  "previous": "https://graph.facebook.com/v17.0/101313633049844/posts?access_
token=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVS
GvVYg41bF6PqTqsSDmlNwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a3
10bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9
MkTZBcF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&__previous=1&since=1689760201&unti
l&__paging_token=enc_AdA6IZByKUG8ZAuovVsmvqqWrSswcxMLrGlULdO0MaUZAEQfpVqyY4ZC
tvA3sezObxE49udWQZCUlk2CitlRdWDxlCUvT5isazjT70a4Ko7vBuuuhgQZDZD",
  "next": "https://graph.facebook.com/v17.0/101313633049844/posts?access_toke
n=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVY
g41bF6PqTqsSDmlNwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZ
BWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9MkTZ
BcF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&until=1017561600&since&__paging_token=
enc_AdBUGNOgokBcPsZBjbYA3jQ8nH5UwGWjjCapsQysOBrmbDHgBFtRLGoy4j56sC04QTlKzfS1f
u3hShLU6ZB2VqPQJDK0j37Bw7Gfe9Tan0aqIXYgZDZD&__previous"
 }
}
```

```
In [ ]:
```