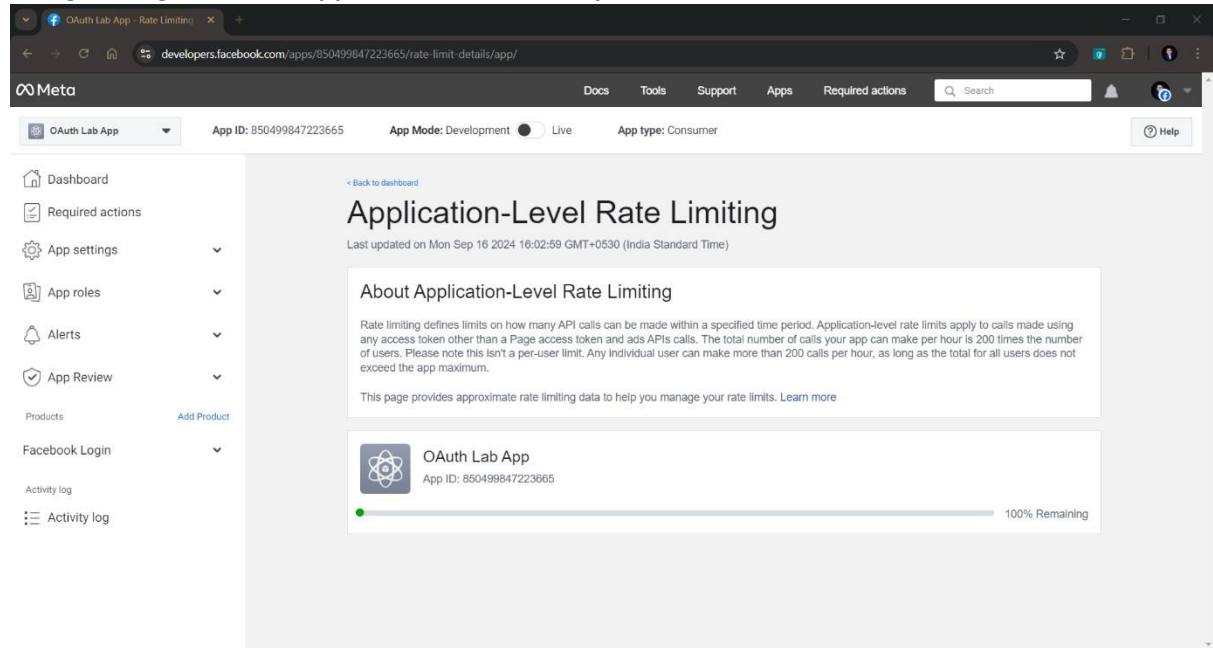# Secure Software Development
SE3040

LAB 07

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1.Registering the Client App in Facebook Developer Website.

**2.Obtaining the Authorization Code**
https://www.facebook.com/dialog/oauth

Sample request:

https://www.facebook.com/dialog/oauth?response_type=code&client_id=**18399417877
4345**&redirect_uri=**http%3A%2F%2Flocalhost%3A8080%2Ffacebookapp%2Fcallbac
k**&scope=**public_profile%20user_posts%20user_friends%20user_photos**

Unable to connect

Firefox can't establish a connection to the server at localhost:8080.
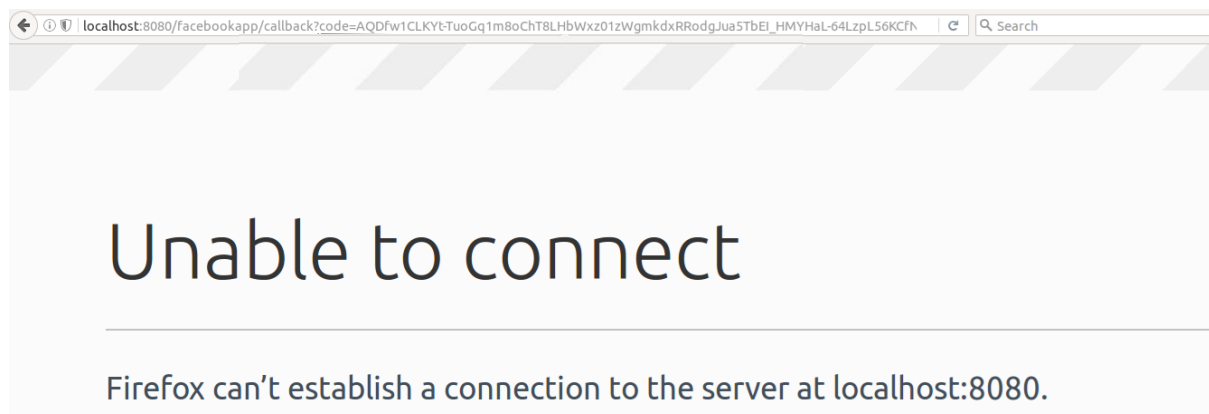
http://localhost:8080/facebookapp/callback?code=**AQDfw1CLKYtTuoGq1m8oChT8LHbWxz01zWgm**
kdxRRodgJua5TbEI_HMYHaL-
64LzpL56KCfNz12Yt3WXlIeep4t0Mc9VCQ9i7SPEIk7gPSmzy4m3fpNawmQCvtw5FEU6pM0ON8EMD
v-6Vp1ty907V4Cnu5sp__QTuJ2c9wz9Co1GIrOO3qEF2Vu9ruaKkMhZDSNAa0fgbd-
5PLiivkN75nr7nsFCHlJEkadBfkIVddJTqd4AH7zc8KFXWta87KA3Kt3Taz7h0lTJff3wQuciWRqh
vytOpE90snQPyNJkitpaQeX3VSLHeLd77QOKMNUGw2TnMr6B9d-Y6AZx1M-
Of6MeQmeogsyhE0QzihAI6eQ#_=_

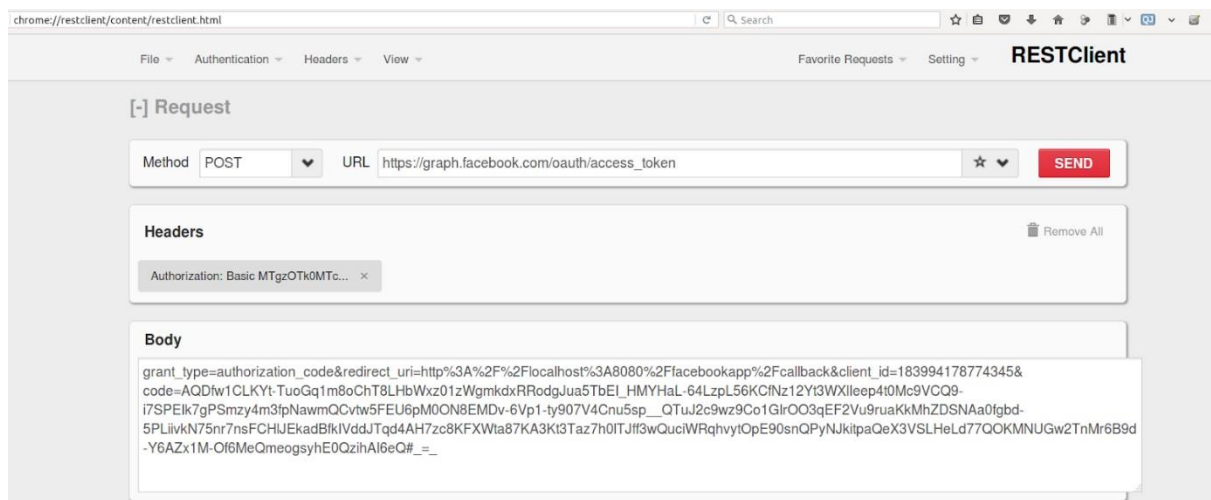### 3.Obtain the access token

Authorization: Basic <Base64encode(AppID:AppSecret)>
<u>URL Encoded Value</u> http%3A%2F%2Flocalhost%3A8080%2Ffacebookapp%2Fcallback

AQDfw1CLKYt-TuoGq1m8oChT8LHbWxz01zWgmkdxRRodgJua5TbEI_HMYHaL-
64LzpL56KCfNz12Yt3WXlIeep4t0Mc9VCQ9i7SPEIk7gPSmzy4m3fpNawmQCvtw5FEU6pM0ON8EMDv-
6Vp1ty907V4Cnu5sp__QTuJ2c9wz9Co1GIrOO3qEF2Vu9ruaKkMhZDSNAa0fgbd-
5PLiivkN75nr7nsFCHlJEkadBfkIVddJTqd4AH7zc8KFXWta87KA3Kt3Taz7h0lTJff3wQuciWRqhvytO
pE90snQPyNJkitpaQeX3VSLHeLd77QOKMNUGw2TnMr6B9d-
Y6AZx1MOf6MeQmeogsyhE0QzihAI6eQ#_=_

Authorization: Basic
MTgzOTk0MTc4Nzc0MzQ1OmRjMzIxZWJlYTI5MjgzY2Q0MDkyYjZiNDc2Y2NhZGJk

[-] Response

Response Headers | Response Body (Raw) | Response Body (Highlight) | Response Body (Preview)

```
1. {
2.    "access_token": "EAACnV3uqpUkBAHtIfr6UKdZC8PR6zRUbQvA2jtyb3bxRbZBqyIUsMW8v6kLKZBRX388B0vjg
   eirmexZBClUUloKO5QGCGO8D2a8gkqHB1Ami8ZC6ZCQLNN2X9hy79zfv7pTUlgjZCu4m97NH8PoUdUJgoZCTdK6NeBQZD"
   ,
3.    "token_type": "bearer",
4.    "expires_in": 5172406
5. }
```

curl -X POST --header "Authorization:
Basic **MTgzOTk0MTc4Nzc0MzQ1OmRjMzIxZWJlYTI5MjgzY2Q0MDkyYjZiNDc2Y2NhZGJ
k**" --data
"grant_type=authorization_code&redirect_uri=**http%3A%2F%2Flocalhost%3A8080%2Ffac
ebookapp%2Fcallback**&client_id=**183994178774345**&code=**AQDfw1CLKYtTuoGq1m8oC
hT8LHbWxz01zWgmkdxRRodgJua5TbEI_HMYHaL-
64LzpL56KCfNz12Yt3WXIIeep4t0Mc9VCQ9-
i7SPEIk7gPSmzy4m3fpNawmQCvtw5FEU6pM0ON8EMDv-
6Vp1ty907V4Cnu5sp__QTuJ2c9wz9Co1GIrOO3qEF2Vu9ruaKkMhZDSNAa0fgbd5PLiiv
kN75nr7nsFCHIJEkadBfkIVddJTqd4AH7zc8KFXWta87KA3Kt3Taz7h0lTJff3wQuc
iWRqhvytOpE90snQPyNJkitpaQeX3VSLHeLd77QOKMNUGw2TnMr6B9d-
Y6AZx1MOf6MeQmeogsyhE0QzihAI6eQ#_=_**"
https://graph.facebook.com/oauth/access_token

tharindu@tharindu-pc:~$ curl -X POST --header "Authorization: Basic MTgzOTk0MTc4Nzc0MzQ1OmRjMzIxZWJlYTI5MjgzY2Q0MDkyYjZiNDc2Y2NhZGJk" --data "grant_type=authorization_code
&redirect_uri=http%3A%2F%2Flocalhost%3A8080%2Ffacebookapp%2Fcallback&client_id=183994178774345&code=AQDfw1CLKYt-TuoGq1m8oChT8LHbWxz01zWgmkdxRRodgJua5TbEI_HMYHaL-64LzpL56KC
fNz12Yt3WXIIeep4t0Mc9VCQ9-i7SPEIk7gPSmzy4m3fpNawmQCvtw5FEU6pM0ON8EMDv-6Vp1-ty907V4Cnu5sp__QTuJ2c9wz9Co1GIrOO3qEF2Vu9ruaKkMhZDSNAa0fgbd-SPLiivkN75nr7nsFCHIJEkadBfkIVddJTqd4
AH7zc8KFXWta87KA3Kt3Taz7h0lTJff3wQuciWRqhvytOpE90snQPyNJkitpaQeX3VSLHeLd77QOKMNUGw2TnMr6B9d-Y6AZx1M-Of6MeQmeogsyhE0QzihAI6eQ#_=_" https://graph.facebook.com/oauth/access_t
oken

{"access_token":"EAACnV3uqpUkBAMd0c964Xy3PbiQQragEmjxc6cZAnhlV6SZBWTZCZBOt0nf3ZASWVo1rznibr6Tr6cjJnO9BFvoZCyASXE41aMWwUtCDlXHseEfhwe6AwB0YexgPr6oKZBDvwOXvbOvLMhch3eQoQsTXB
ISqjQST1oZD","token_type":"bearer","expires_in":5172141}tharindu@tharindu-pc:~$

4. Retrieving User Resources from Facebook, providing

the Access Token

 Authorization: Bearer <access token value> Retrieving

user's timeline posts

https://graph.facebook.com/v2.8/me/feed?limit=25

```
{
    "data":
    [
        {
            "message": "Mid night calls for the 3rd consecutive day. #FridayNight #Secur
ityTeam",
            "story": "Tharindu Edirisinghe with Prakhash Sivakumar and 2 others at WSO2.
",
            "created_time": "2017-03-24T18:16:42+0000",
            "id": "10211676134766456_10211597302675703"
        },
        {
            "message": "Another friend at home.. #kalawedda.. It seemed to be blind in d
ay light",
            "created_time": "2017-03-20T10:56:20+0000",
            "id": "10211676134766456_10211556857784606"
        },
        {
            "story": "CAKE LABS added a new photo — with Prakhash Sivakumar and Tharindu
 Edirisinghe at Cake Labs.",
            "created_time": "2017-03-18T06:22:49+0000",
            "id": "610831692314505_1414989191898747"
        },
```

Retrieving User's Photo Album Details

https://graph.facebook.com/v2.8/me/albums

Retrieving Photos of an Album

 https://graph.facebook.com/v2.8/<album_id>/photos

Retrieving a Photo by ID https://graph.facebook.com/<photo

ID>/picture