

Justin Wilmot

ICS 370

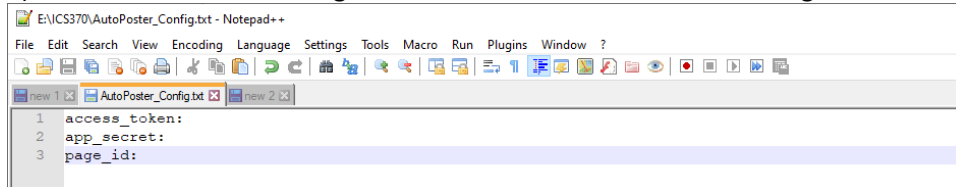
July 15, 2021

Iteration 5 – How to instructions

For iteration 5, I was asked to create “How To” instructions for creating a Facebook Group post using the Java program I created.

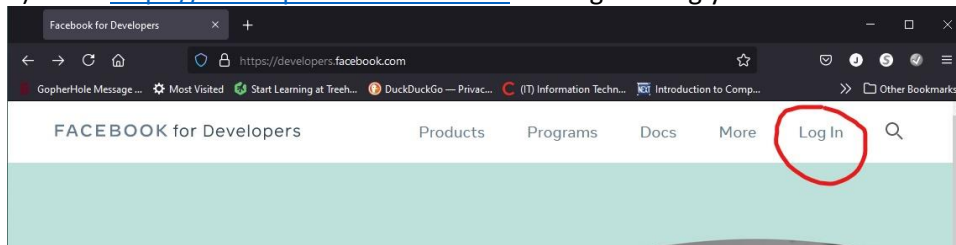
1) Create a Facebook Group or be set as an Admin of a Facebook Group you would like to auto post.

2) Create a .txt file for configuration information. Add the following information **EXACTLY** as shown.

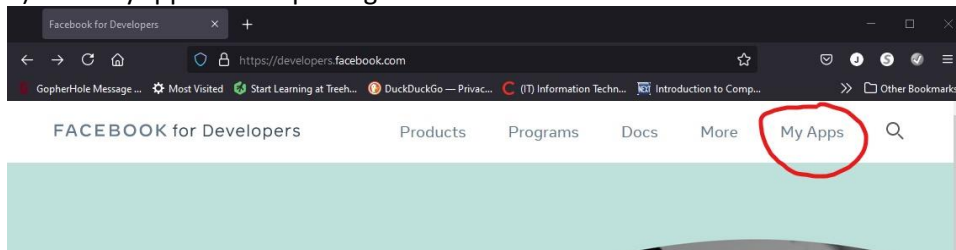


```
1 access_token:
2 app_secret:
3 page_id:
```

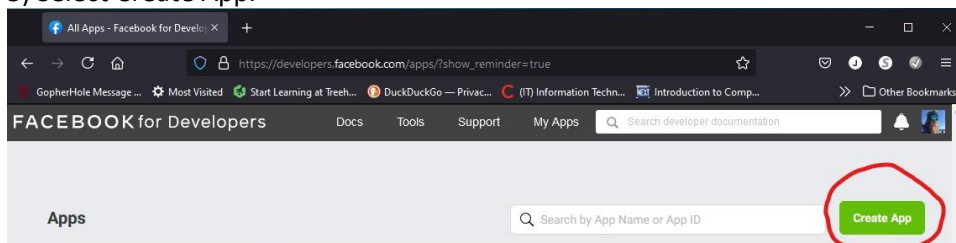
3) Go to <https://developers.facebook.com> and log in using your Facebook account information.



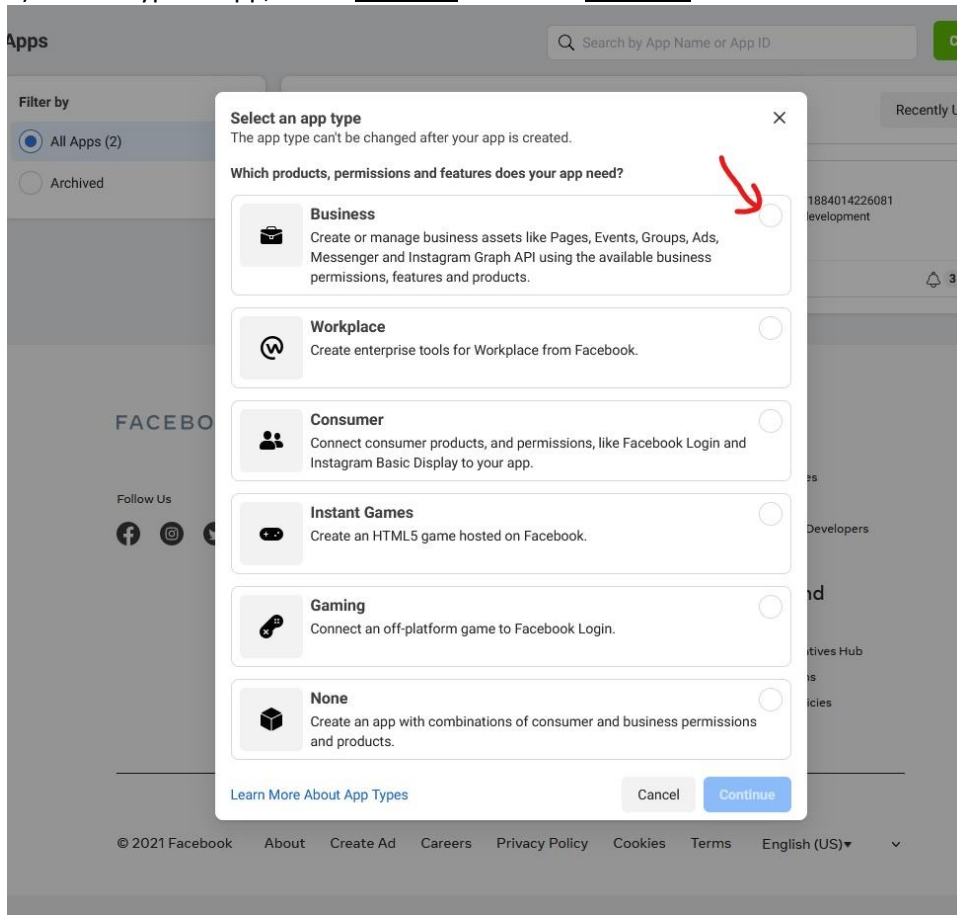
4) Click MyApps from top navigation bar.



5) Select Create App.



6) For the type of app, select Business then click continue.



7) Fill in App Display Name with a name for your app. For App Purpose, select Yourself or your own business. Then click Create App.

Create an App

App Display Name
This is the app name associated with your app ID.

App Contact Email
This email address is used to contact you about potential policy violations, app restrictions or steps to recover the app if it's been deleted or compromised.

App Purpose
This app's primary purpose is to access and use data from Facebook's Platform on behalf of:

☒ Yourself or your own business

☐ Clients ⓘ

If you are developing an app that accesses and uses data from Facebook's Platform on behalf of clients, you are subject to [Section 5b of the Platform Terms](#).

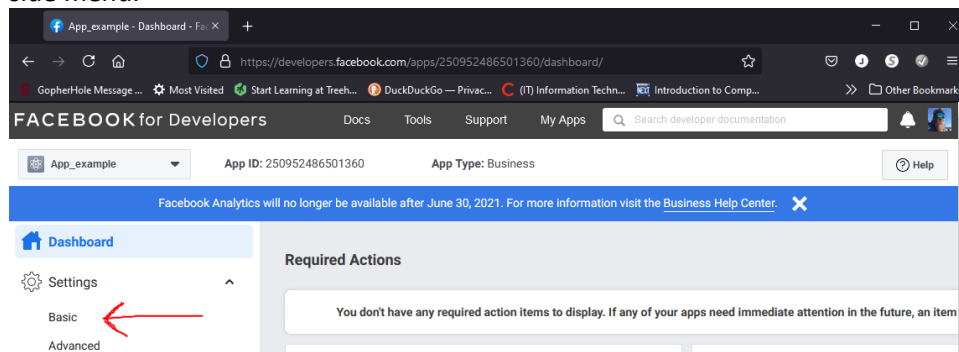
Do you have a Business Manager account? · Optional
In order to access certain aspects of the Facebook platform, apps may need to be connected to a verified Business Manager account. If you haven't yet set up an account, you can create one now or later in the process.

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

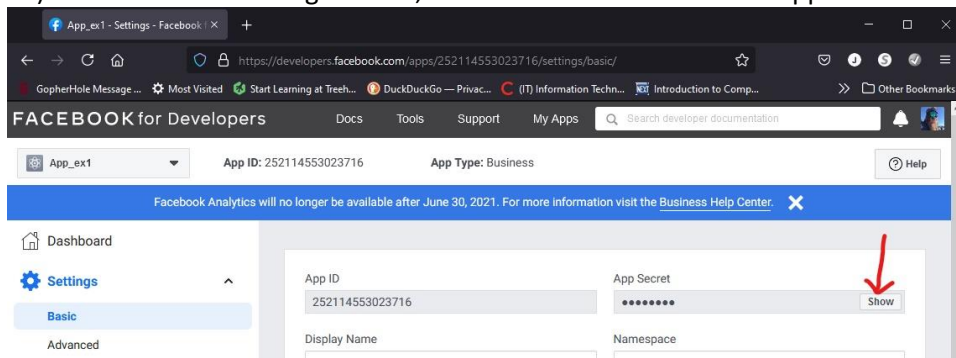
< Back Create App

8) Re-enter your Facebook password in order to create the app.

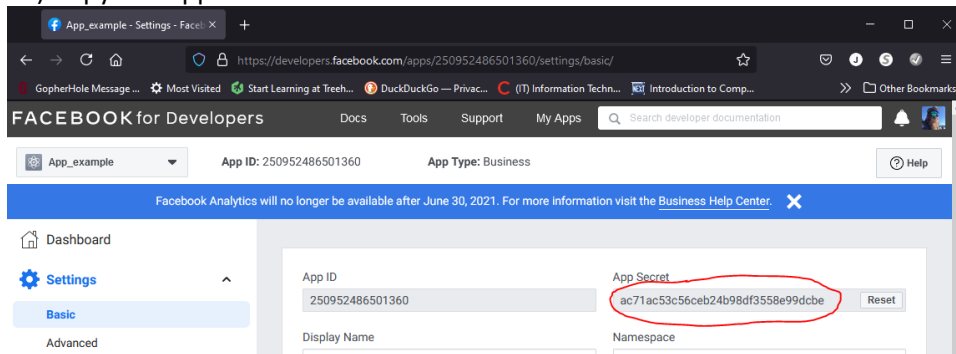
9) The app Dashboard screen should automatically appear. Click Settings and then Basic from the left side menu.



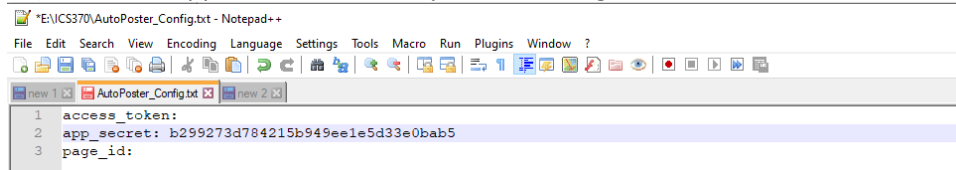
10) From the Basic Settings screen, Click the Show button under App Secret to reveal the code.



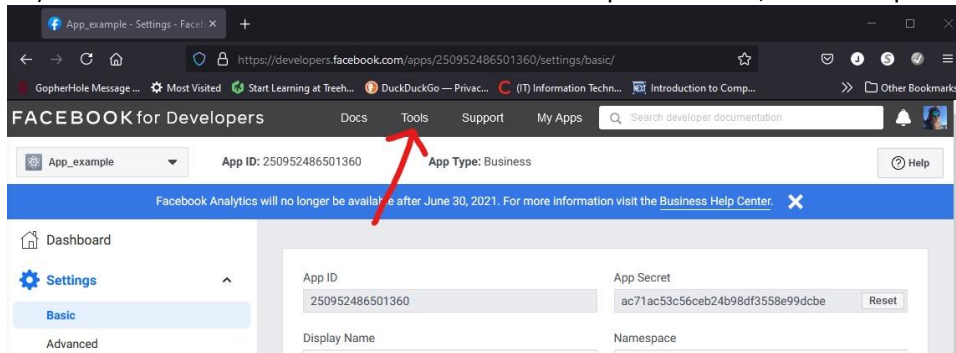
11) Copy the App Secret id code.



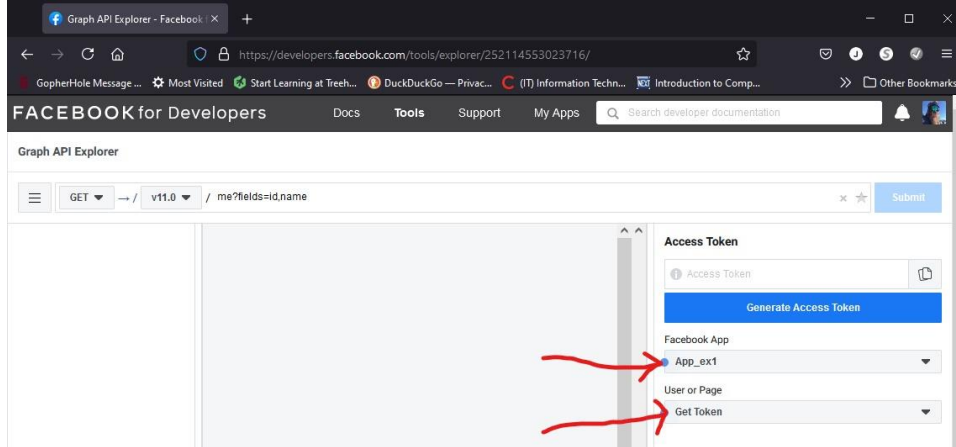
12) Paste the App Secret id code in your .txt configuration file.



13) From the Tools menu on the Facebook Developers website, select Graph API Explorer.

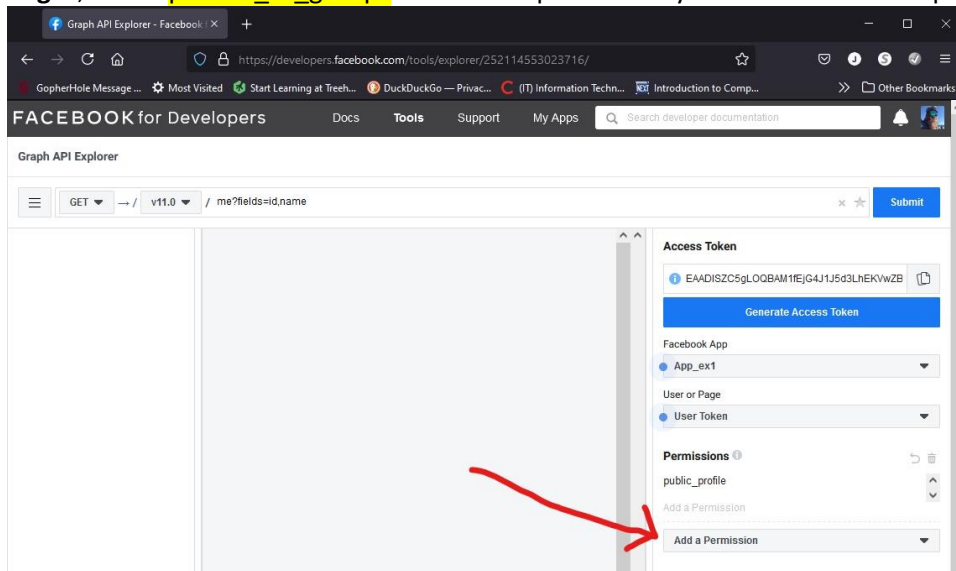


14) On the Graph API Explorer page, on the right-hand side select your app under **Facebook App** and then select “Get User Access Token” under **User or Page**.

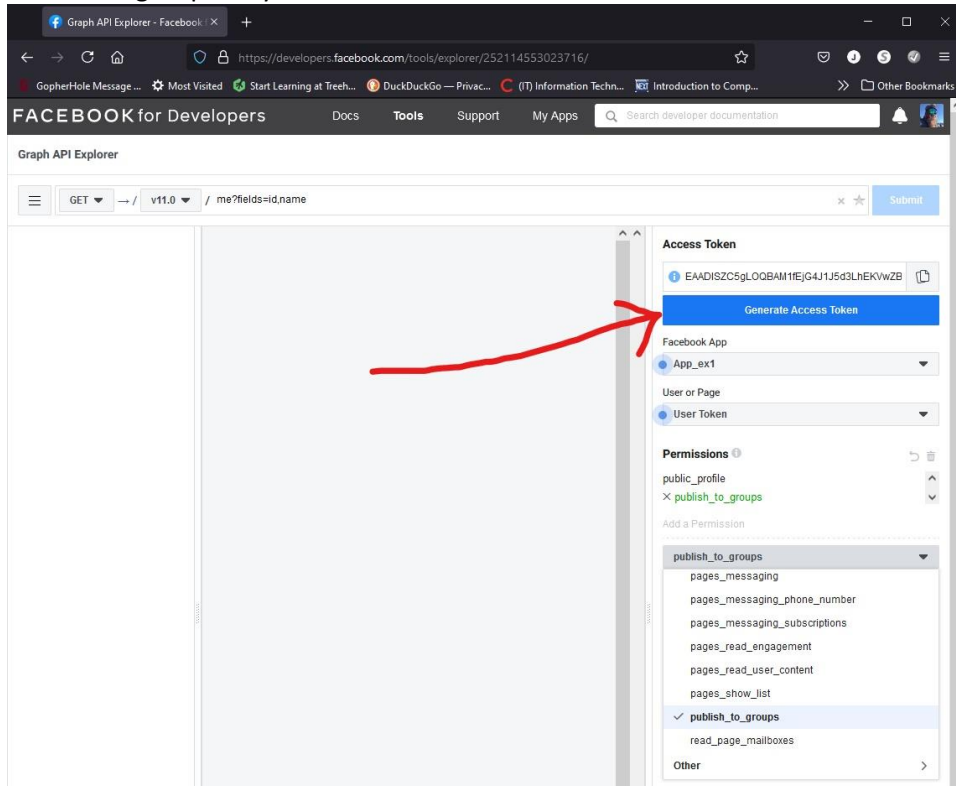


A pop-up window will show that the app is trying to access your Facebook name and public picture. This is necessary. Click “Continue as”

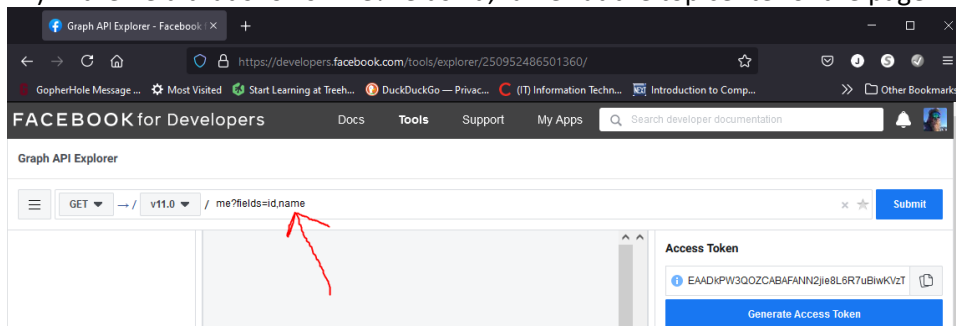
15) **Permissions** now appears on the right-hand side. Click “Add a Permission”. Under **Events Groups Pages**, select **publish_to_groups**. This is the permission you will need to auto post to a group.



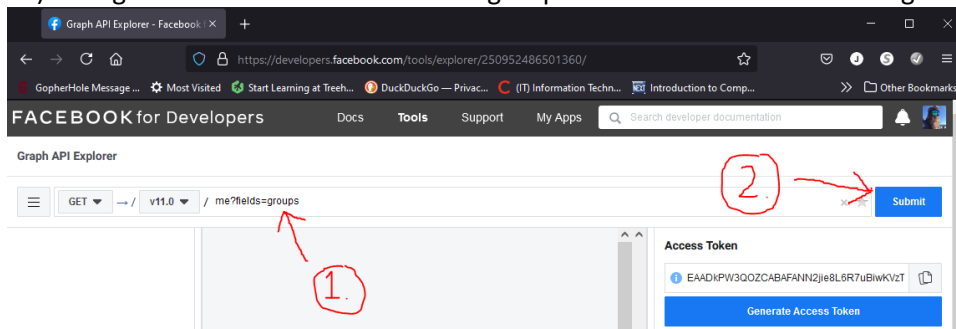
16) Click on “Generate Access token”. Another pop-up will appear regarding the app being able to post content in groups on your behalf. Click “Continue”.



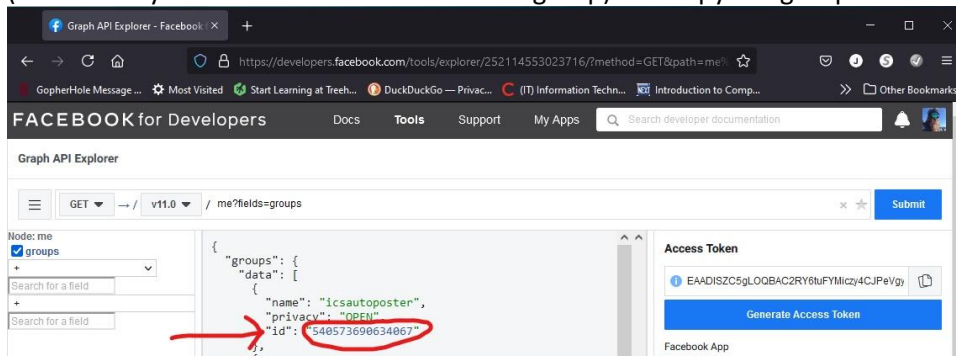
17) In the field that shows “me?fields=id,name” at the top center of the page.



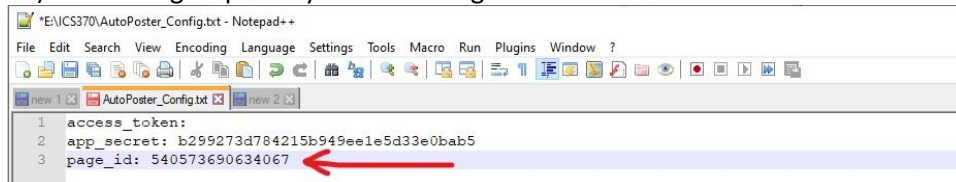
18) Change the field to read “me?fields=groups” then click Submit on the right-hand side.



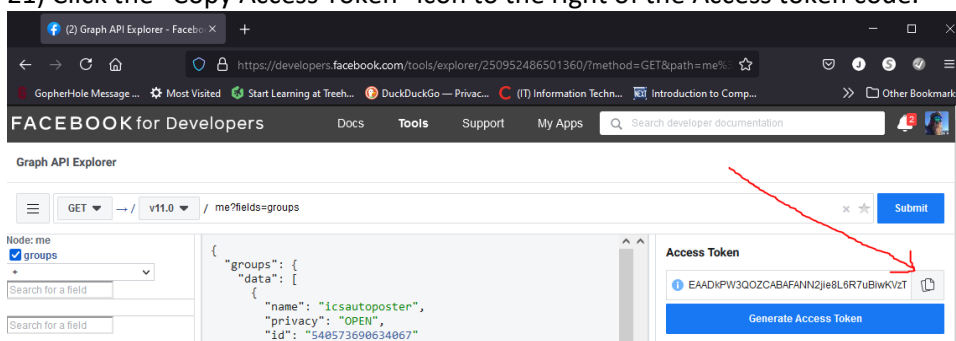
19) A list of groups you are a member of will appear, find the group you would like to auto post to (remember you need to be an Admin of the group) and copy the group id.



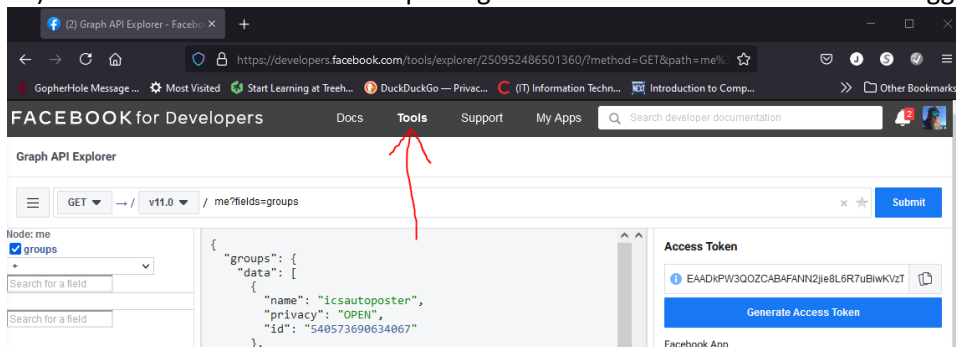
20) Paste the group id in your .txt configuration file.



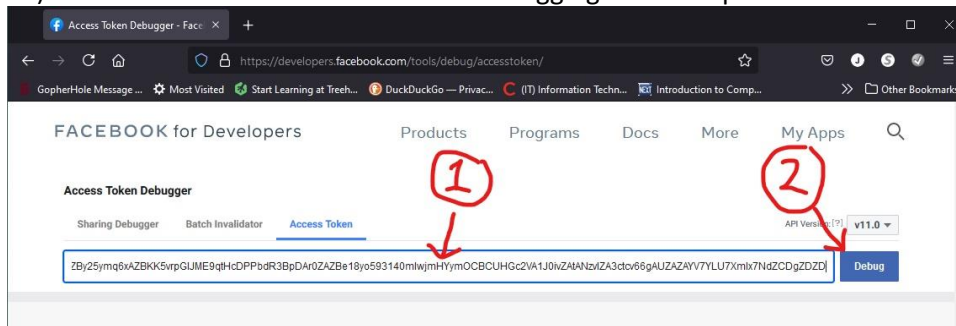
21) Click the “Copy Access Token” icon to the right of the Access token code.



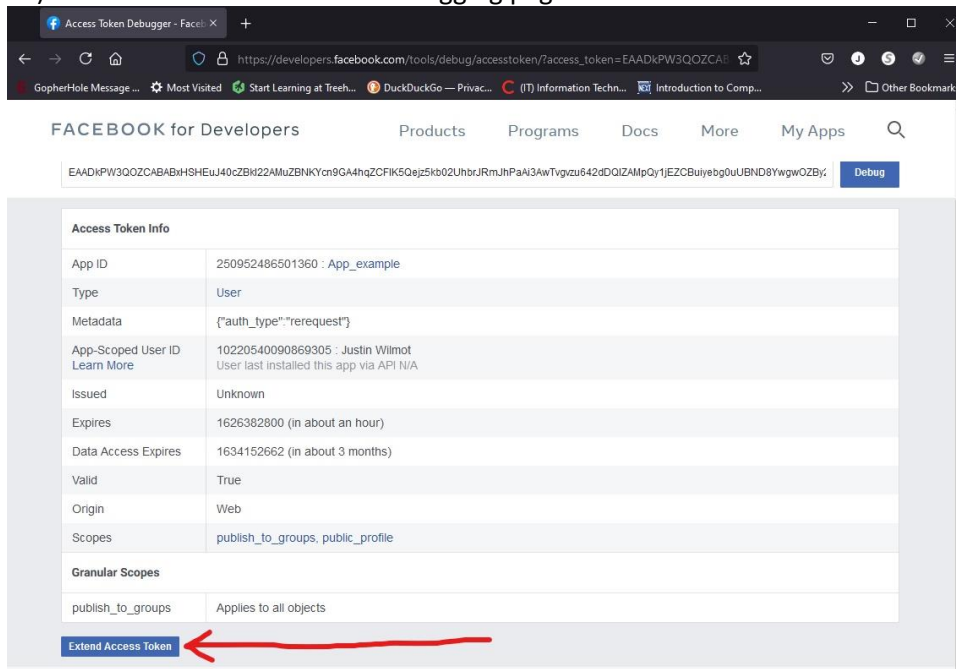
22) Click the Tools menu in the top navigation bar. Select Access Token Debugger.



23) Paste the Access Token code in the debugging field at top of screen. Click Debug.



24) Scroll to the bottom of the Debugging page and click "Extend Access Token".



25) An Extended Access Token will appear. Make note of the expiration date and copy the token code.

The screenshot shows the Facebook Access Token Debugger interface. The top navigation bar includes 'FACEBOOK for Developers', 'Products', 'Programs', 'Docs', 'More', and 'My Apps'. A search bar is on the right. Below the navigation bar, a URL bar shows the debugger's address. The main content area displays 'Access Token Info' for a specific token. The token's expiration date is highlighted with a red circle. Below the token info, a 'Debug' button is visible. The 'Extend Access Token' section shows a new long-lived access token that will expire on September 13, 2021. This new token is also highlighted with a red circle.

Access Token Info	
App ID	250952486501360 : App_example
Type	User
Metadata	{"auth_type": "rerequest"}
App-Scoped User ID Learn More	10220540090869305 : Justin Wilmot User last installed this app via API N/A
Issued	Unknown
Expires	1626382800 (in about an hour)
Data Access Expires	1634152662 (in about 3 months)
Valid	True
Origin	Web
Scopes	publish_to_groups, public_profile
Granular Scopes	
publish_to_groups	Applies to all objects

[Extend Access Token](#)

This new long-lived access token will expire on September 13, 2021:

`EAADkPW3QOZCABAC0b2Bfj10eagNdBozCzrphTDj7EMykhF2CTeCDK14hoqJ6xRtAIVg9UER15nAp3gndLjJjeDXy30uCl4BXYLWjJ0LqSGkFFWTjKVJLHf0dreYHAJgcHRAz1gGRfw7nFXEET62AAQFp89XOG6WQ1uE2AcvyRQ2DZD`

[Debug](#)

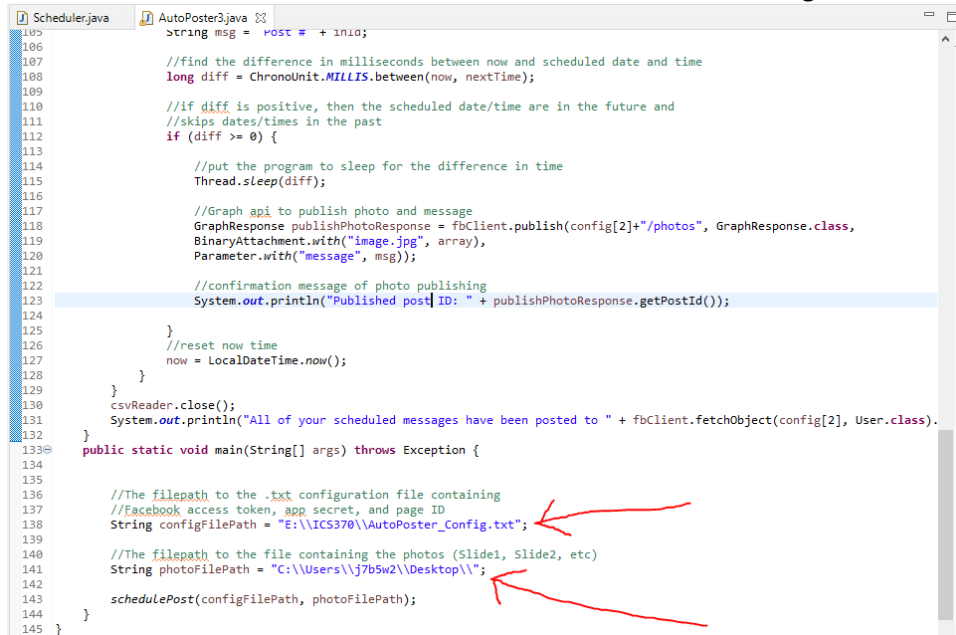
26) Paste the Extended Access Token code to your .txt configuration file.

The screenshot shows a Notepad++ window titled 'E:\CS370\AutoPoster_Config.txt - Notepad++'. The window contains the following configuration file content:

```
1 access_token: EAAHIdfp16gBAA4jHE488LWB2iDs1Mhx1RMIAdwb9kvHwdr83f1cxmhbYmTEj0XpVYF6RC9Xn2UOVnnJfWTLJhLTLxp2CawcnoA8nH582Czv6jcgAjgFXhiXu3
2 app_secret: b299273d784215b949ee1e5d33e0bab5
3 page_id: 540573690634067
```

A red arrow points to the 'access_token' value in the first line of the configuration file.

27) In the Java program, you will need to enter the filepath of the .txt configuration file and the filepath of the folder that contain your slide jpgs. The filepaths should be entered in the AutoPoster class in the main method. Remember to use double backslashes instead of single.



```
105 Scheduler.java AutoPoster3.java
106 >string msg = "Post # " + in10;
107 //find the difference in milliseconds between now and scheduled date and time
108 long diff = ChronoUnit.MILLIS.between(now, nextTime);
109
110 //if diff is positive, then the scheduled date/time are in the future and
111 //skips dates/times in the past
112 if (diff >= 0) {
113
114     //put the program to sleep for the difference in time
115     Thread.sleep(diff);
116
117     //Graph api to publish photo and message
118     GraphResponse publishPhotoResponse = fbClient.publish(config[2]+"photos", GraphResponse.class,
119     BinaryAttachment.with("image.jpg", array),
120     Parameter.with("message", msg));
121
122     //confirmation message of photo publishing
123     System.out.println("Published post ID: " + publishPhotoResponse.getPostId());
124
125 }
126 //reset now time
127 now = LocalDateTime.now();
128 }
129 }
130 csvReader.close();
131 System.out.println("All of your scheduled messages have been posted to " + fbClient.fetchObject(config[2], User.class).
132 }
133 public static void main(String[] args) throws Exception {
134
135
136     //The filepath to the .txt configuration file containing
137     //Facebook access token, app secret, and page ID
138     String configFilePath = "E:\\ICS370\\AutoPoster_Config.txt";
139
140     //The filepath to the file containing the photos (Slide1, Slide2, etc)
141     String photoFilePath = "C:\\Users\\j7b5w2\\Desktop\\";
142
143     schedulePost(configFilePath, photoFilePath);
144 }
145 }
```