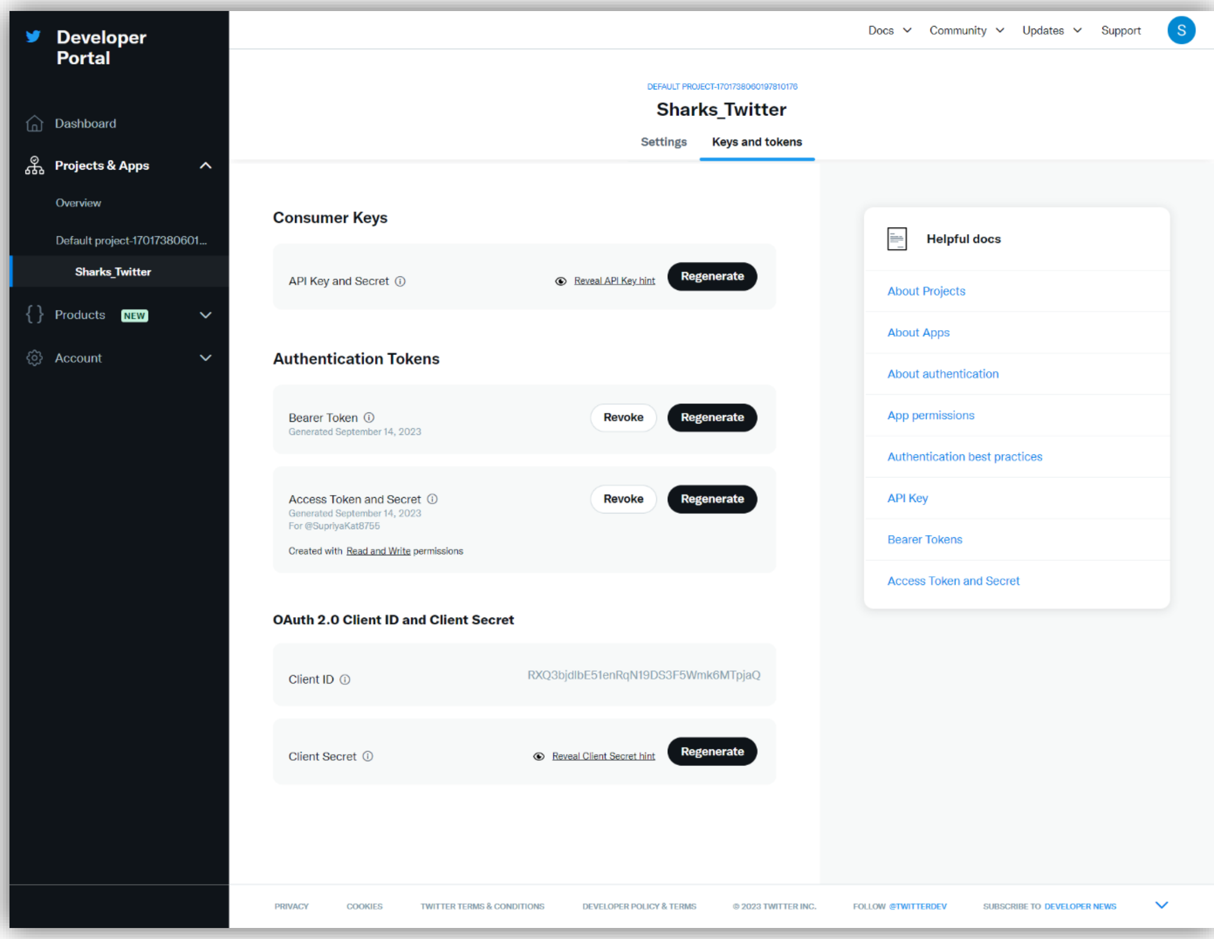
# Twitter Service

Team: Sharks

Team Members: Mohana Moganti, Supriya Katragadda, Varun, Kevin

Step1: As a first step, we created authentication tokens that includes access token, access secret token, bearer token, Api key and Api secret key in the https://developer.twitter.com/. The created tokens are used in the Django web application.



DEFAULT PROJECT-1701738060197810176

Sharks_Twitter

Consumer Keys

API Key and Secret ⓘ — Reveal API Key hint

Authentication Tokens

Bearer Token ⓘ
Generated September 14, 2023

Access Token and Secret ⓘ
Generated September 14, 2023
For @SupriyaKat8755
Created with Read and Write permissions

OAuth 2.0 Client ID and Client Secret

Client ID ⓘ RXQ3bjdlbE51enRqN19DS3F5Wmk6MTpjaQ

Client Secret ⓘ — Reveal Client Secret hint

Step2: After creating tokens, we used Django web framework using python language that creates the web Ui to create and delete the tweets.

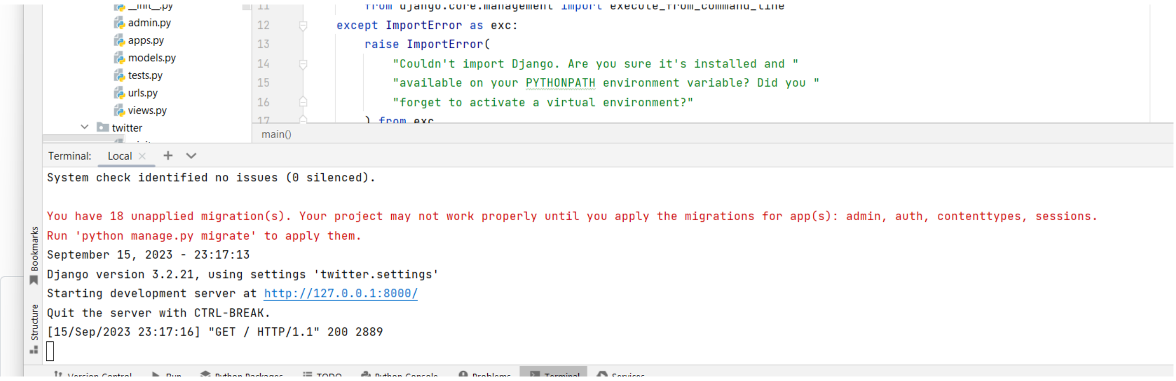
Later we Stored the tokens in settings.py of Django project

Created four html pages, for index page, create(success) html, delete html, return tweets html. As a python code, we write in views.py, comprising of functions that calls the html pages based on the request that is passed.

If the request passed is to delete the tweet, delete function is called and it renders **delete.html** page by showing as successfully deleted. Similarly, if the request is passed to create the tweet index.html is rendered and when the process is successful success.html is rendered.

We can run the project by using the command

**python manage.py runserver**.

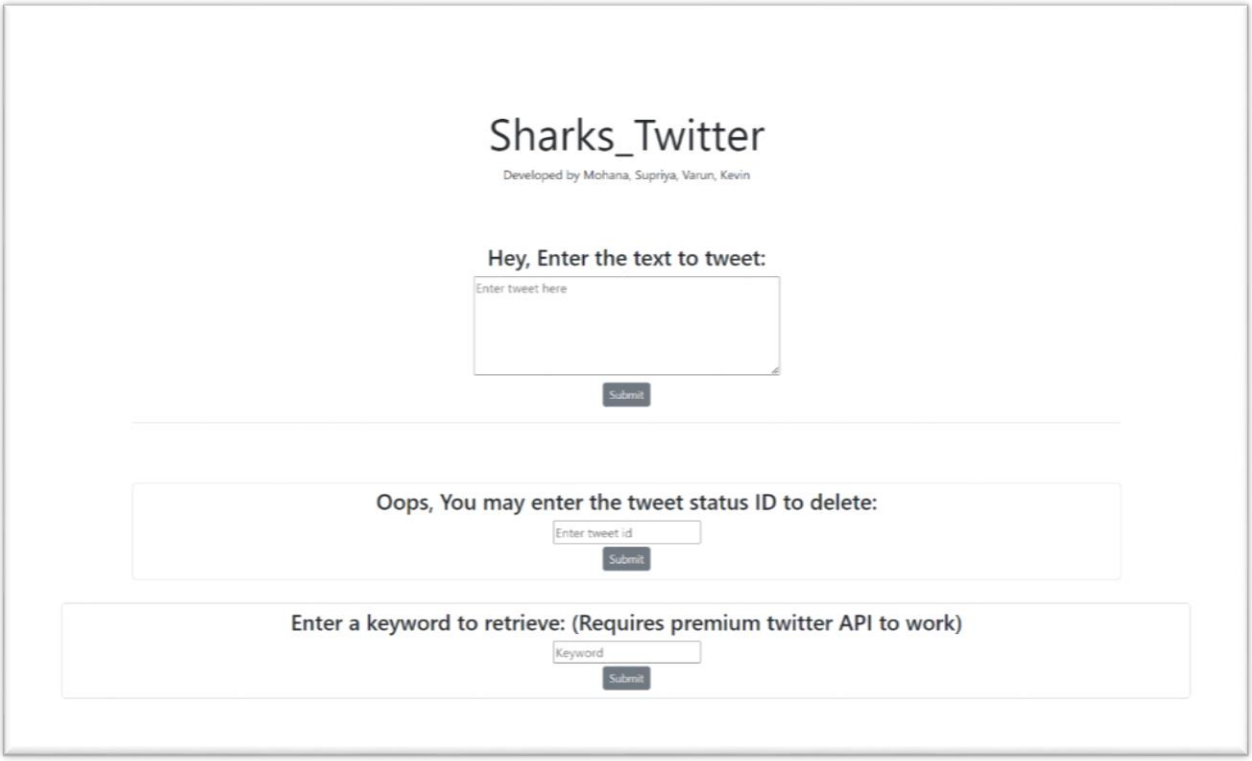


```
        from django.core.management import execute_from_command_line
    except ImportError as exc:
        raise ImportError(
            "Couldn't import Django. Are you sure it's installed and "
            "available on your PYTHONPATH environment variable? Did you "
            "forget to activate a virtual environment?"
        ) from exc
```

```
System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
September 15, 2023 - 23:17:13
Django version 3.2.21, using settings 'twitter.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[15/Sep/2023 23:17:16] "GET / HTTP/1.1" 200 2889
```

Step3: When we browse the url http://127.0.0.1:8000/, we do get the main html, which is shown below.



Sharks_Twitter

Developed by Mohana, Supriya, Varun, Kevin

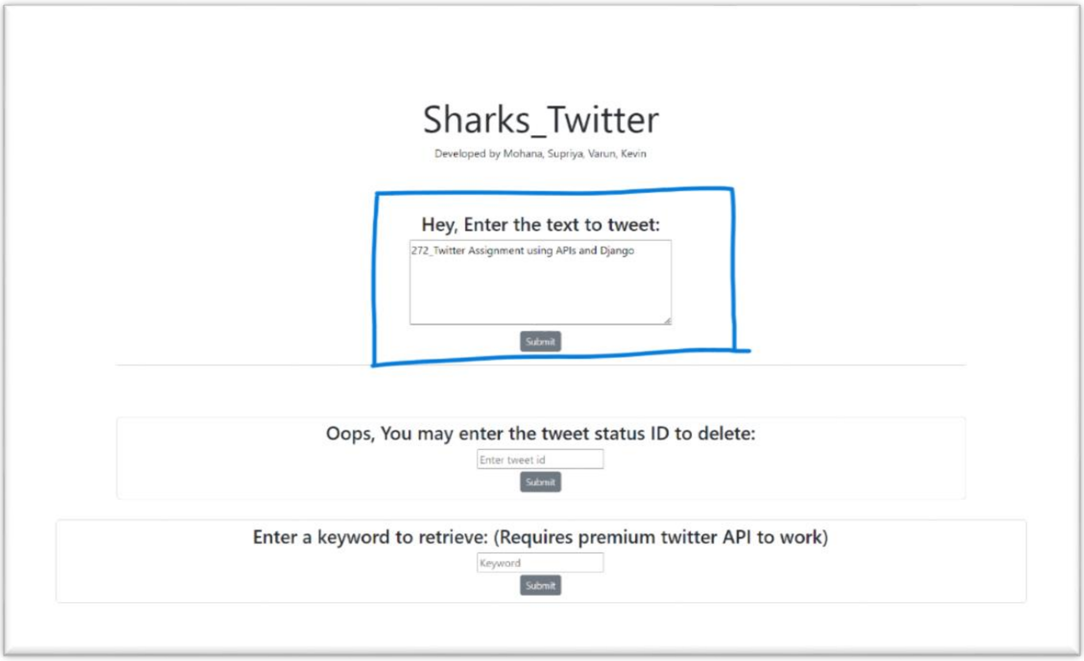
Hey, Enter the text to tweet:

Oops, You may enter the tweet status ID to delete:

Enter a keyword to retrieve: (Requires premium twitter API to work)

Step4: To create a tweet, we enter the sample text in placeholder. Then the tweet gets tweeted and the html page is displayed as tweet has been created.

Below is the screenshot, when we entered the tweet.



Sharks_Twitter

Developed by Mohana, Supriya, Varun, Kevin

Hey, Enter the text to tweet:

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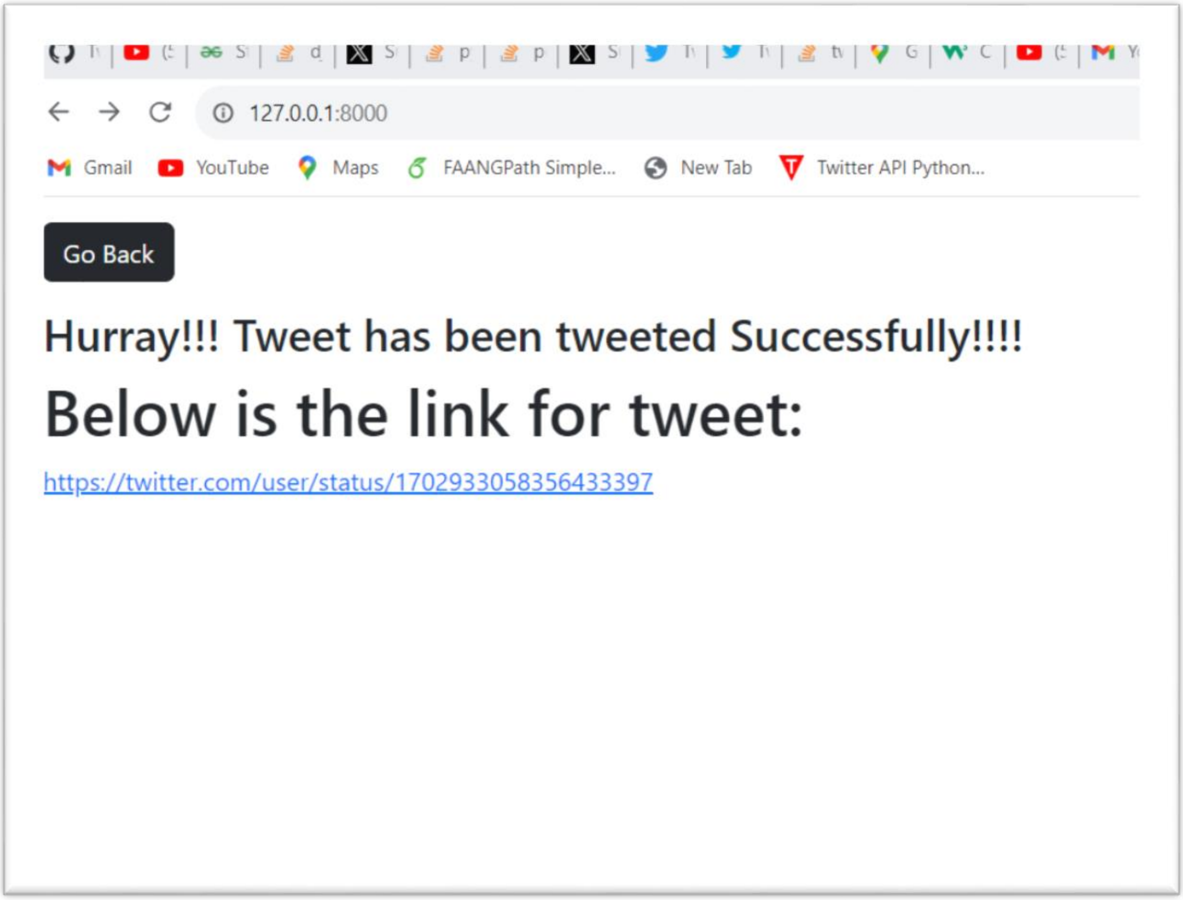
Oops, You may enter the tweet status ID to delete:

Enter a keyword to retrieve: (Requires premium twitter API to work)

Once we submit the tweet, we get the confirmation page, and below is the attached html page,

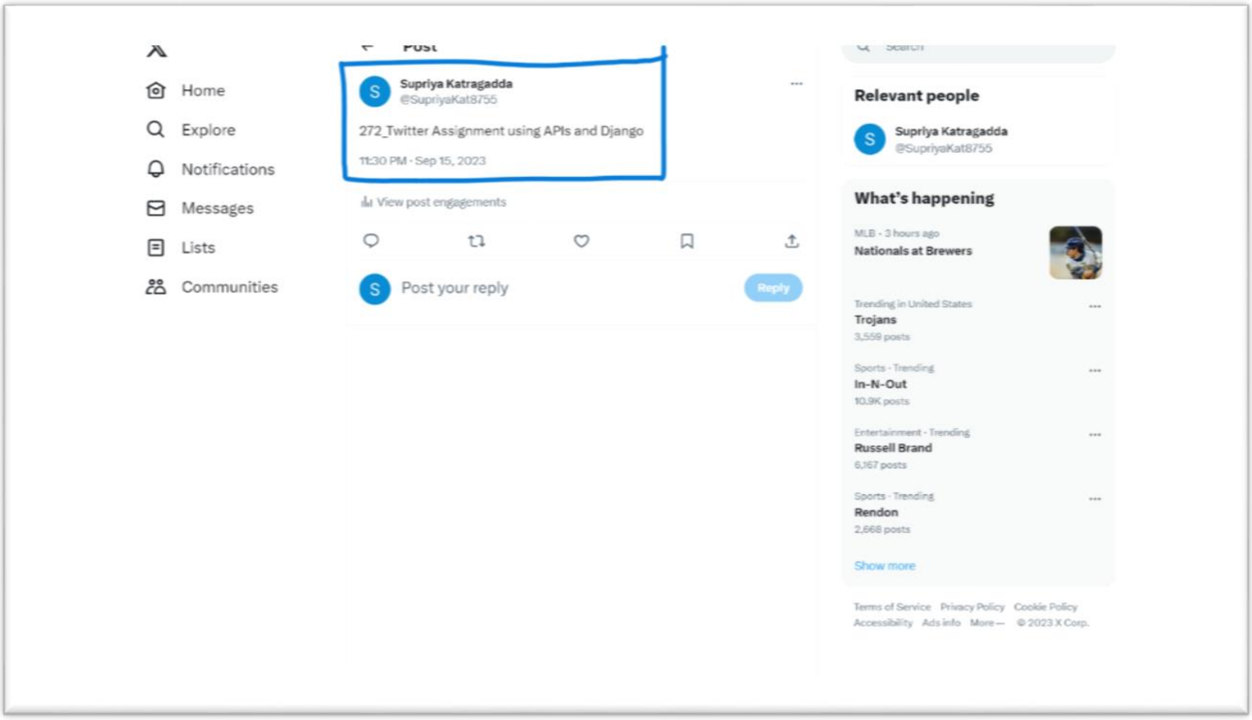


Hurray!!! Tweet has been tweeted Successfully!!!!

Below is the link for tweet:

https://twitter.com/user/status/1702933058356433397

The same tweet is tweeted and can be seen in the twitter app. Below is the attached screenshot for the tweet that is posted in twitter.



Supriya Katragadda
@SupriyaKat8755

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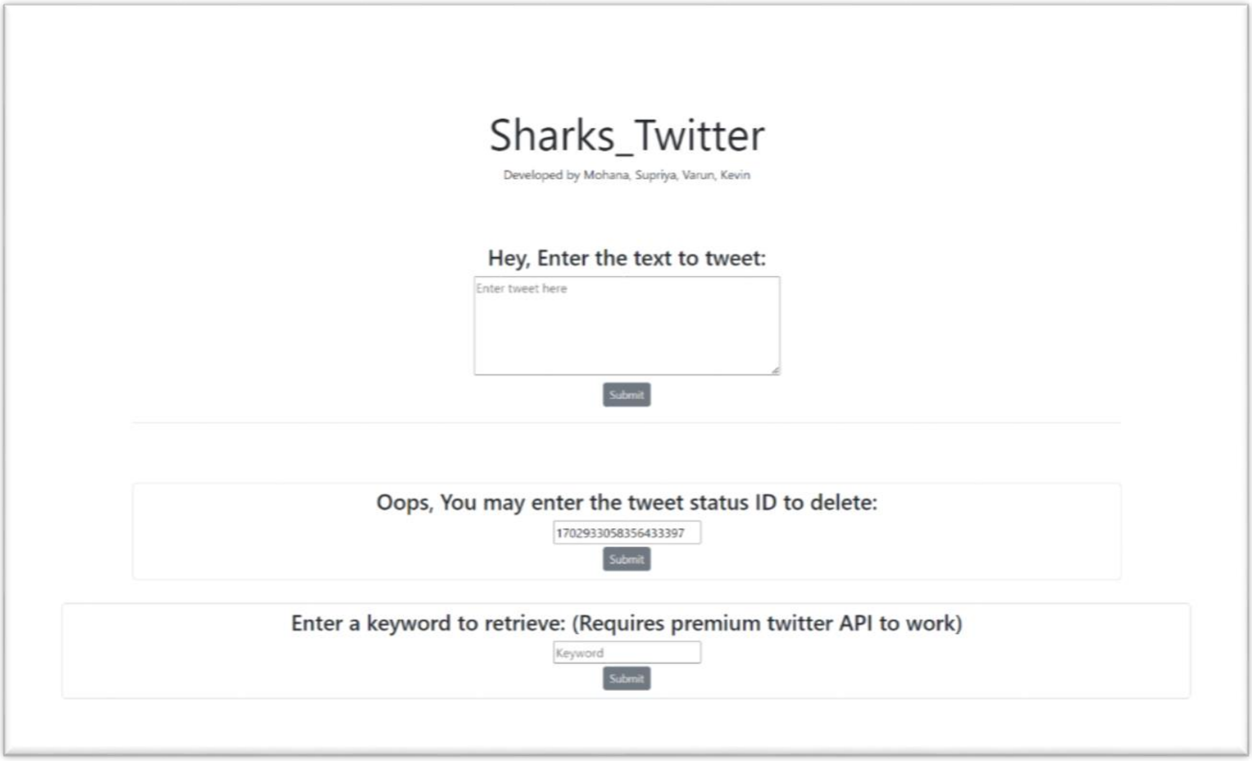
11:30 PM · Sep 15, 2023

Step5: Inorder to delete the tweet, we can enter the tweet id which is available from the link that is shown when we create a tweet.

Once the tweet is deleted, we can confirmation page showing tweet is deleted.

Below is the screenshot, when we enter the id to be deleted.



Sharks_Twitter

Developed by Mohana, Supriya, Varun, Kevin

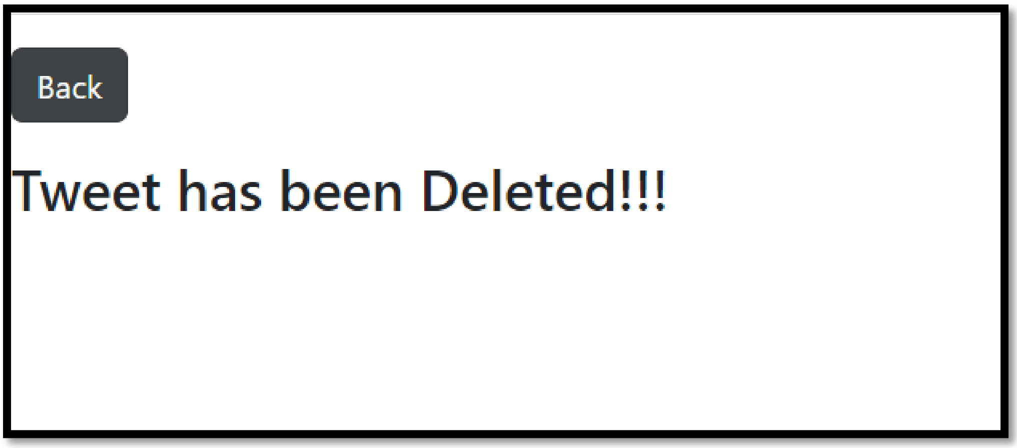
Hey, Enter the text to tweet:

Oops, You may enter the tweet status ID to delete:

1702933058356433397

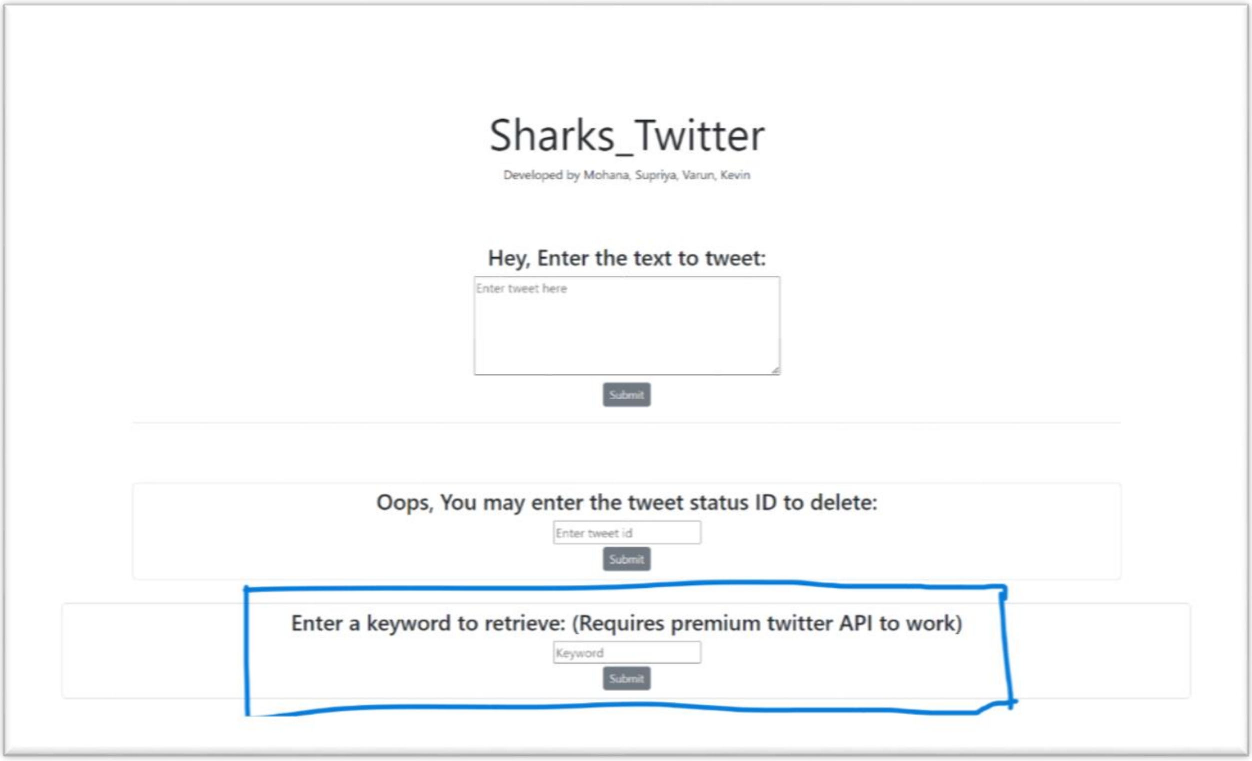
Enter a keyword to retrieve: (Requires premium twitter API to work)

Once the tweet is deleted, we get the confirmation page as tweet is deleted, and the same is refelcted in the twitter app as well.



Tweet has been Deleted!!!

Step 6: There is a possibility of retrieving the tweets as well, but we need a premium account of twitter developer portal, so we just added the html page of entering the keywords to retreive the tweets.



# Sharks_Twitter

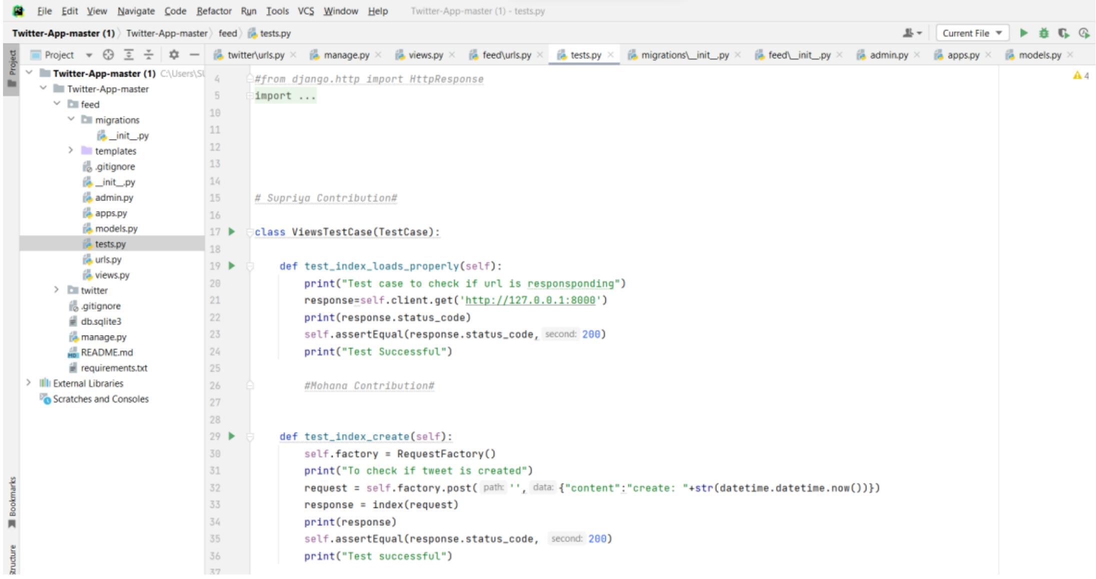
Developed by Mohana, Supriya, Varun, Kevin

Hey, Enter the text to tweet:

Oops, You may enter the tweet status ID to delete:

Enter a keyword to retrieve: (Requires premium twitter API to work)

Also, Included the unit tests in the code which is uploaded in github.



```python
#from django.http import HttpResponse
import ...




# Supriya Contribution#

class ViewsTestCase(TestCase):

    def test_index_loads_properly(self):
        print("Test case to check if url is responsponding")
        response=self.client.get('http://127.0.0.1:8000')
        print(response.status_code)
        self.assertEqual(response.status_code, 200)
        print("Test Successful")

        #Mohana Contribution#


    def test_index_create(self):
        self.factory = RequestFactory()
        print("To check if tweet is created")
        request = self.factory.post('', {"content":"create: "+str(datetime.datetime.now())})
        response = index(request)
        print(response)
        self.assertEqual(response.status_code, 200)
        print("Test successful")
```