

# Twitter Service Group Assignment

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## Team :

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18 th September, 2022

## Assignment

1. Develop custom twitter service api's that implements any Twitter API to programmatically create, retrieve and delete a Tweet in the Twitter Sandbox environment.
2. Develop a simple Web UI that implements your service and demonstrates the functions
3. Develop unit test cases

Deliverables : github url for code , Documentation (with screenshots)

## Approach

As a group, the team worked on understanding the requirements first. Then we decided to research on the following areas which are key to start development.

- a) Twitter developer portal, twitter sandbox, twitter API 1.0 vs 2.0, Authentication scheme
- b) Technology choices for Frontend and API development

After completing initial assessments here are the technology choices made based on ease of development , skill set of the team and future project goals

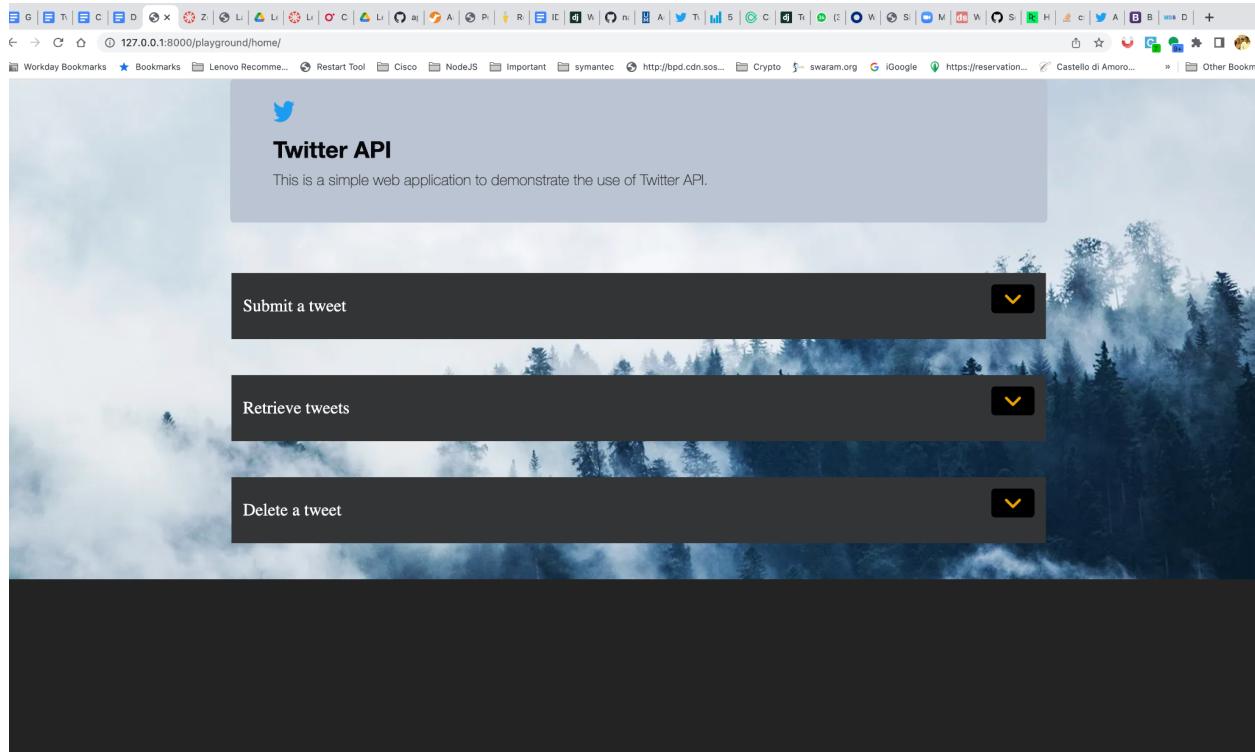
**Front End :** HTML, bootstrap, Jquery , css

**Backend development:** Python and Django Framework

Twitter 2.0 API using Developer Portal Apps

**Tests :** Django Test Framework

## Home Page for Twitter Test Service



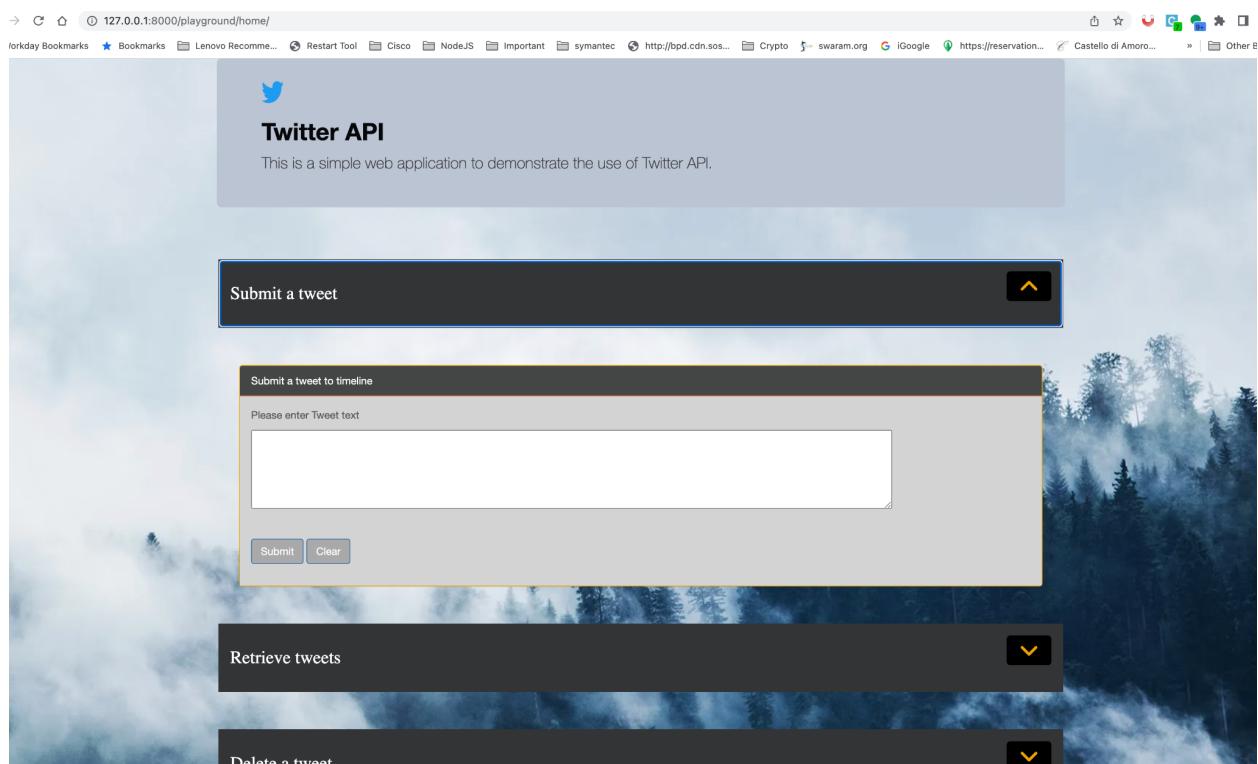
This page has four different sections

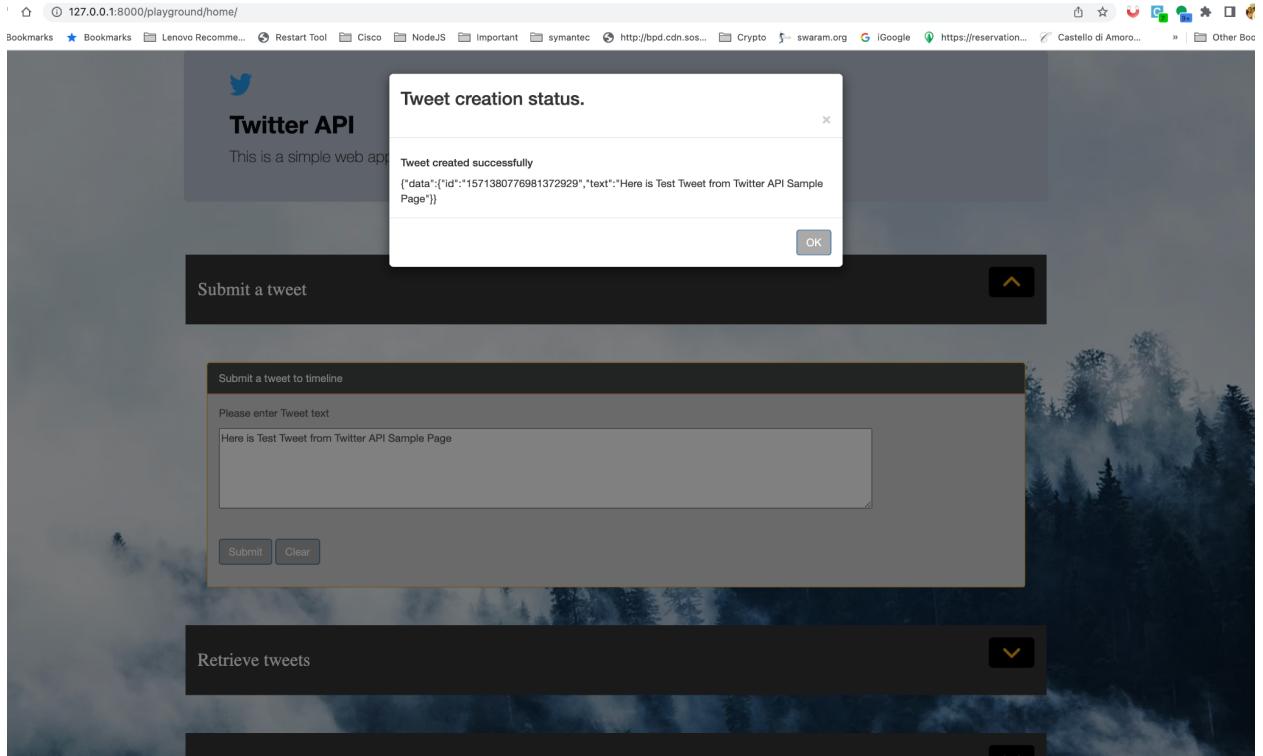
1. Submit a tweet
2. Delete a tweet
3. Retrieve tweets based on userhandle
4. Results from the twitter api are captured and returned in a modal dialog

*Note : All the backend calls are made inline using the Jquery Ajax module . The results are updated automatically shown in a modal dialog without forwarding to a new page.*

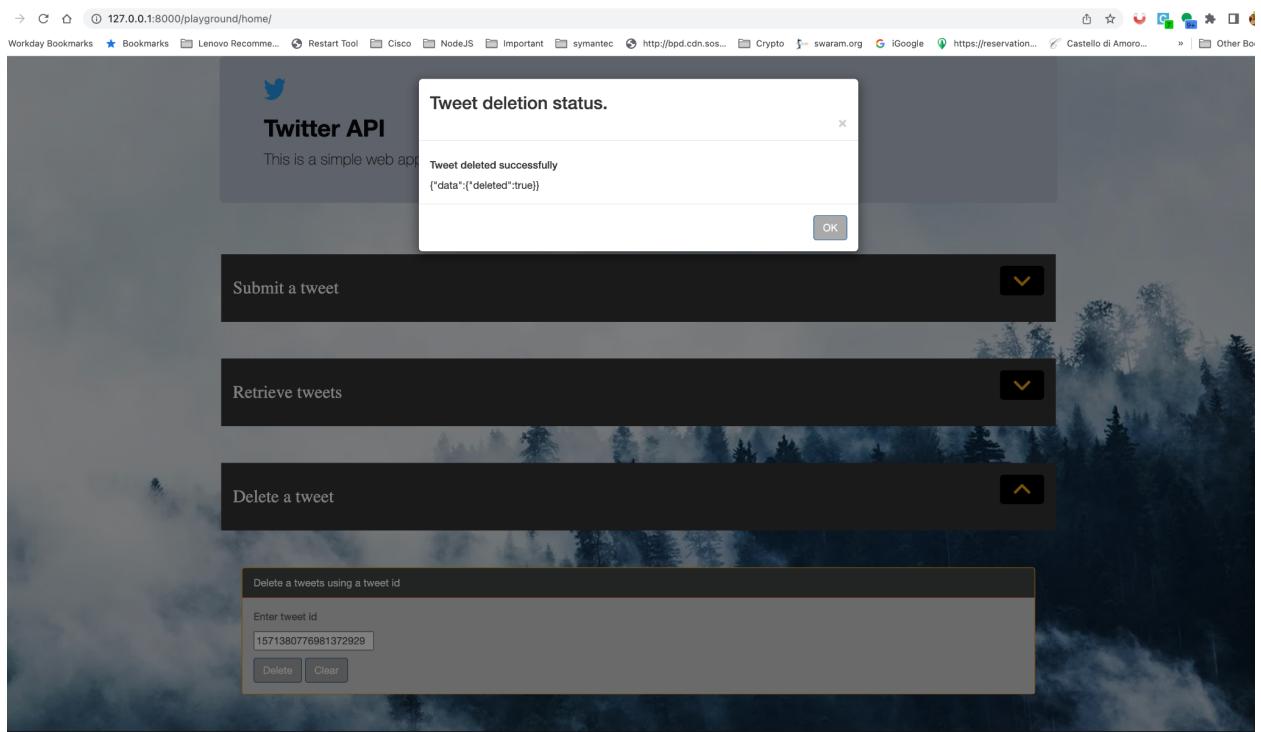
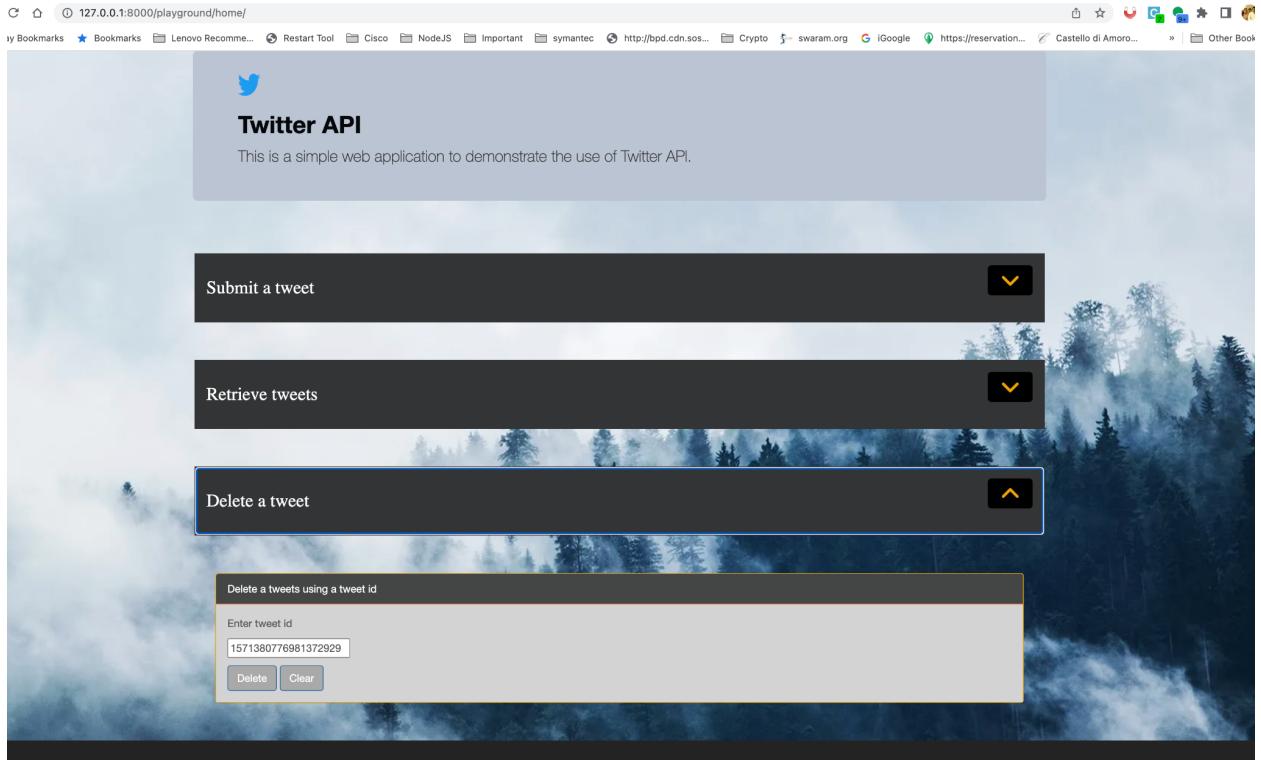
## Submit a tweet

Once the tweet text is entered and submit the form, the text is posted and success response is returned in the modal dialog



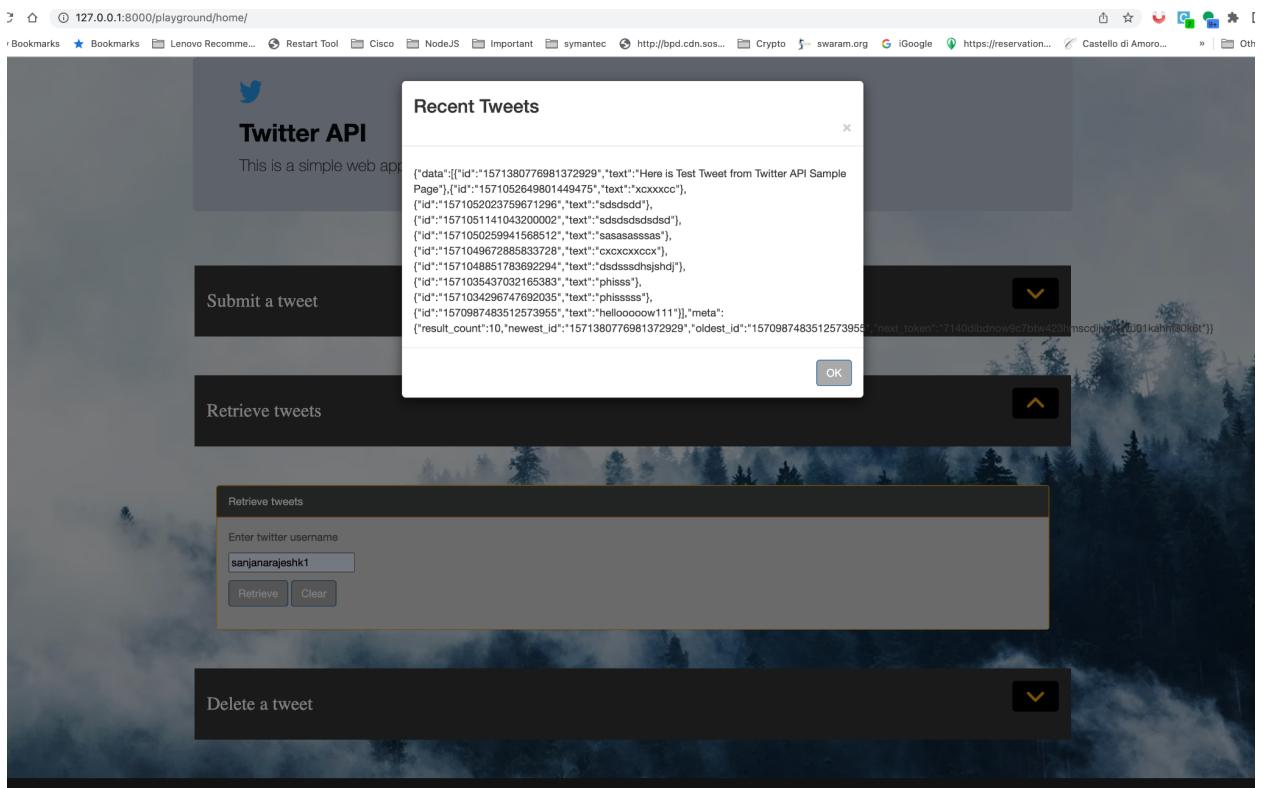
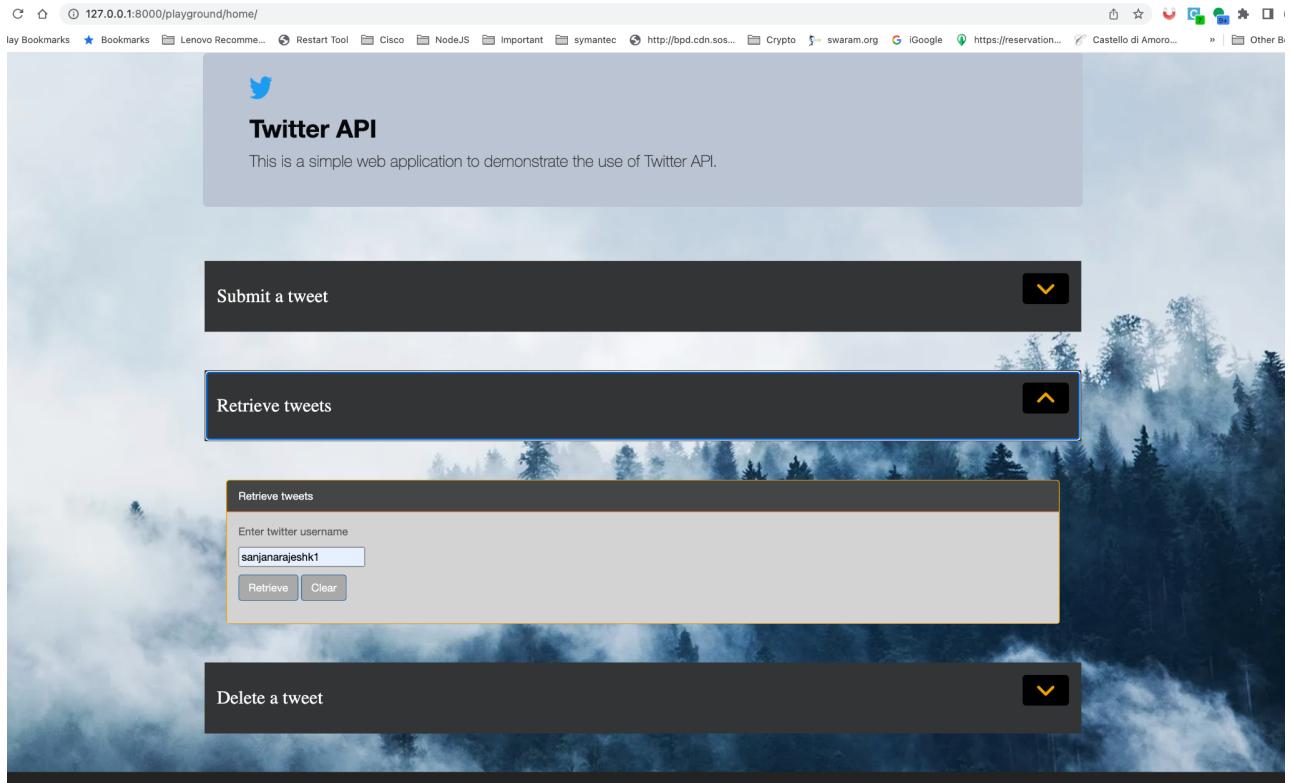


**Delete a tweet** You need to provide a tweet id in the form and click delete and a success message is returned in the modal dialog



## Retrieve Tweets from timeline

You need to provide a user handle (eg: tesla) in the form and click submit . All the tweets from twitter handle are returned and shown in the modal dialog



## Areas we can improve

- a) Sandbox environment setup is not setup as the documentation is very limited
- b) Implemented this on Local, Deployment to cloud and make this a public service
- c) Better User interface and integrating with twitter widget for results
- d) Validations on the page and error handling

## Links to Github

<https://github.com/nagabathula/twitterRestAPI-assignment>

Installation Instructions for the app:

<https://github.com/nagabathula/twitterRestAPI-assignment/blob/main/README.md>

Code :

<https://github.com/nagabathula/twitterRestAPI-assignment/blob/main/twitterRestAPI-V1.zip>

Code location (with in Zip) :

**HTML :** twitterRestAPI/playground/templates/home.html

**CSS :**

twitterRestAPI/playground/static/css/Portal.css

twitterRestAPI/playground/static/css/main.css

**API :** twitterRestAPI/twitterapi/views.py

**Test cases :** twitterRestAPI/twitterapi/tests.py

## Contribution by each team member

Sanjana Rajesh Kothari & Naga Bathula - Python & Django API development & Code for Twitter API Integration

Harika Satti & Siddhant Sancheti - Front end (HTML, CSS and Javascript) for front end

Ravi Teja Reddy Dodda - Installation of Django for dev environment & Unit tests