Sheshant

Documentation for API endpoints for Twitter Project

OVERVIEW

This is an API endpoint documentation of the mini version of Twitter Project. The Project consists of only backend and no frontend. The entire project is based on Django Rest Framework. The database used here is the SQLite default database for the Django Project. We have superuser username 'sheshant' and password 'recursive'. To run the project, go to the folder having the file manage.py and run the command ./manage.py runserver. The requirements are there in requirement.txt file. We can access the admin page from the URL **http://127.0.0.1:8000/admin** following are the tables in the database

1. UserProfile: it saves the profile for the user
2. Tweet: it saves all the tweets
3. Follower: it saves the data about who follows whom
4. LikeTweet: it saves the data about who liked which tweet
5. Comment: it saves all the comments to tweet

Note: Token-based authentication is being used here to determine the user. Most of the APIs require authentication and token-based authentication is used in this project. Pagination is also used with a limit of 10. Initially, all the users have password 'recursive'

API endpoints

1. URL: **api/twitter/api-token-auth/**
   Method type: POST
   It will need the username and password as input JSON data and it will return the token key. The key will be needed for all the other APIs

2. URL: **api/twitter/post_tweet/**
   Method type: POST

Authetication required: True
This API will post the tweet on timelines
Input JSON parameters

a. 'tweet': It has the corresponding tweet

Output JSON parameters

a. ‘user’: the user
b. ‘tweet’: the corresponding tweet
c. ‘created_at’: time of creation

3. URL: **api/twitter/follow_people/**
Method type: POST
Authetication required: True
With the help of this API, authenticated user will follow another user whose id is provided. In case of any error, the corresponding error message will be send
Input JSON parameters

a. user_id: It has the id of the user to follow

Output JSON parameters

a. ‘follower_user’: the user_id who is following some user
b. ‘followed_user’: the user_id who is being followed

4. URL: **api/twitter/unfollow_people/**
Method type: POST
Authetication required: True
With the help of this API, authenticated user will unfollow another user whose id is provided. In case of any error, the corresponding error message will be send
Input JSON parameters

a. user_id: It has the id of the user to unfollow

Output JSON parameters

a. ‘message’: the success message

5. URL: **api/twitter/show_followers/**
Method type: POST
Authetication required: False

This API will show all the followers of the given user. It will return a paginated response

Input JSON parameters

a. 'user_id’: the id of the user whose followers to show

Output JSON parameters will have a result key having a list of results

a. 'id': id of the user
b. 'username': username of the user
c. 'full_name': full name of the user
d. 'date_joined': the date when the user registered
e. 'photo': photo path of the user
f. 'gender': gender of the user
g. 'created_at': when the user followed

6. URL: **api/twitter/show_following/**

Method type: POST

Authetication required: False

This API will show all the followings of the given user. It will return a paginated response

Input JSON parameters

a. 'user_id’: the id of the user whose followers to show

Output JSON parameters will have a result key having a list of results

a. 'id': id of the user
b. 'username': username of the user
c. 'full_name': full name of the user
d. 'date_joined': the date when the user registered
e. 'photo': photo path of the user
f. 'gender': gender of the user'
g. ’created_at': when the user followed

7. URL: **api/twitter/user_timeline/**

Method type: POST

Authetication required: False

This API will return he paginated response of all the tweets of the user

Input JSON parameters

a. ‘user_id’: the id of the user

Output JSON parameters

a. ‘user’: the user
b. ‘tweet’: the corresponding tweet
c. ‘created_at’: time of creation

8. URL: **api/twitter/home_timeline/**
   Method type: POST
   Authetication required: True
   This API will return a paginated response of all the tweets of the user and the following user in chronological order
   Input JSON parameters None

   Output JSON parameters

   a. ‘user’: the user
   b. ‘tweet’: the corresponding tweet
   c. ‘created_at’: time of creation

9. URL: **api/twitter/update_tweet/**
   Method type: POST
   Authetication required: True
   This API will update the corresponding tweet to the new tweet provided. In case of any error, it will give the corresponding error message
   Input JSON parameters
   a. 'tweet': It has the corresponding updated tweet
   b. ‘tweet_id’: the id of the tweet which is to be updated

   Output JSON parameters

   a. ‘user’: the user
   b. ‘tweet’: the corresponding tweet
   c. ‘created_at’: time of creation

10. URL: **api/twitter/delete_tweet/**
    Method type: POST

Authetication required: True

This API will delete the tweet. In case of error, it will give the corresponding error message

Input JSON parameters

a. 'tweet_id': the id of the tweet which is to be updated

Output JSON parameters

a. ‘message’: success message if deleted

11. URL: **api/twitter/comment_tweet/**

Method type: POST

Authetication required: True

This API will post a comment on the tweet provided. In case of error, it will give the corresponding error message

Input JSON parameters

a. 'tweet_id': It has the corresponding tweet id
b. ‘comment’: the comment to be posted

Output JSON parameters

a. 'user_id': id of the user who made the comment
b. 'tweet_id': id of the tweet where to post the comment
c. 'comment': the comment to be posted
d. 'created_at': the time when the comment was posted

12. URL: **api/twitter/update_comment/**

Method type: POST

Authetication required: True

This API will update the comment. In case of error, it will give the corresponding error message

Input JSON parameters

a. 'comment_id': The id of the comment to be updated
b. ‘comment’: updated comment

Output JSON parameters

a. 'user_id': id of the user who made the comment
b. 'tweet_id': id of the tweet where to post the comment

    c. 'comment': the updated comment to be posted
    d. 'created_at': the time when the comment was posted

13. URL: **api/twitter/delete_comment/**

    Method type: POST

    Authetication required: True

    This API will delete the comment. In case of error, it will give the corresponding error message

    Input JSON parameters

    a. 'comment_id': The id of the comment to be deleted

    Output JSON parameters

    a. ‘message’: success message if deleted

14. URL: **api/twitter/get_all_comments/**

    Method type: POST

    Authetication required: False

    This API will return a paginated response of all the comments. In case of error, it will give the corresponding error message

    Input JSON parameters

    a. 'tweet_id': It has the corresponding tweet id for which we need all comments

    Output JSON parameters

    a. 'user_id': id of the user who made the comment
    b. 'tweet_id': id of the tweet where to post the comment
    c. 'comment': the comment which is posted
    d. 'created_at': the time when the comment was posted

15. URL: **api/twitter/like_tweet/**

    Method type: POST

    Authetication required: True

    This API will let the user like a tweet. In case of error, it will give the corresponding error message

    Input JSON parameters

    a. 'tweet_id': It has the corresponding tweet id

Output JSON parameters

a. ‘user_id’: the id of the user who liked the tweet
b. ‘tweet_id’: the corresponding tweet id

16. URL: **api/twitter/unlike_tweet/**
Method type: POST
Authetication required: True
This API will let the user to unlike a tweet. In case of error, it will give the corresponding error message
Input JSON parameters
    a. 'tweet_id': It has the corresponding tweet id

Output JSON parameters

a. ‘message’: the success message

17. URL: **api/twitter/get_all_likes_to_tweet/**
Method type: POST
Authetication required: False
This API will return a paginated response of records of all the users who liked a tweet
Input JSON parameters
    a. 'tweet_id': It has the corresponding tweet id

Output JSON parameters

a. 'id': id of the user
b. 'username': username of the user
c. 'full_name': full name of the user
d. 'date_joined': the date when the user registered
e. 'photo': photo path of the user
f. 'gender': gender of the user'
g. ’created_at': when the user followed

18. URL: **api/twitter/get_all_liked_tweets/**
Method type: POST
Authetication required: False

This API will return a paginated response of records of all the tweets which are liked by user provided

Input JSON parameters

c. 'user_id': It has the corresponding user id

Output JSON parameters

a. ‘user’: the user of the tweet
b. ‘tweet’: the corresponding tweet
c. ‘created_at’: time of creation