API Documentation

Members:

1. Neeraj Polas : CWID-887414449
2. Shrinidhi Pande : CWID-887347474
3. Uday Reddy : CWID-894865609

User Service APIs

File : api.py

We have defined following API's for User service:

1: **feature:** Create User
   URL endpoint : /createUser
   Method: POST
   Info:

createUser API will take userName, email and password as input and store it in the database. It will respond by json with statuscode: and message saying user created.

Sample Input Body:

```json
{
    "userName": "john_doe",
    "email": "johndoe@yopmail.com",
    "password": "John123"
}
```

Output response:

```json
{
    "message": "User Created",
    "statusCode": 200
}
```

2: **feature:** Authenticate user
   URL endpoint: /authenticate
   Method: POST
   Info:

Authenticate API will take userName and password as input and validate user. If the password matches with the user then it will respond with success.

Sample Input Body:

```json
{
    "userName": "john_doe",
    "password": "John123"
}
```

Output response:

```json
{
    "message": "user authenticated",
    "status": "ok",
    "statusCode": "200"
}
```

1: **feature:** Add Follower
   URL endpoint: /addFollower
   Method: POST
   Info:
   addFollower API will take userName and username of the person to follow. And inserts
   data into the database.

   Sample Input Body:
```json
{
    "userName": "uday123",
    "usernameToFollow": "john_doe"
}
```

   Output response:

```json
{
    "message": "uday123 has started following john_doe",
    "statueCode": 201
}
```

4: **feature:** removeFollower
   URL endpoint: /removeFollower
   Method: POST
   Info:
   removeFollower API will take userName and Another UserName to be unfollowed.

   Sample Input Body:
```json
{
 "userName": "uday123",
 "userNameToUnFollow": "john_doe"
}
```

   Output response:

```json
{
```

```
    "message": "uday123 has stopped following john_doe",
    "statueCode": 201
}
```

Tweet Service APIs
File : tweetService.py

5: **feature:** Post Tweet
   Method: POST
   URL endpoint: `/tweetService/v1/postTweet`
   Info:

   This API will take user name and tweet text in body of POST request in Json format

   Sample Input Body:
```
{
    "userName": "john_doe",
    "tweetText": "This is my first tweet"
}
```

   Output response:
```
{
    "status": "ok",
    "statusCode": "200"
}
```

6: **feature:** Get User Timeline
   Method: GET
   URL endpoint: `/tweetService/v1/userTweets`
   Info:

   This is a GET request which will take userName as a query parameter and will return
   upto 25 most recent user tweets
   E.g. `/tweetService/v1/userTweets?userName="JohnDoe"`
   Sample Input Body:
```
   No input body
```

   Output response:
```
[
    {
        "date_of_creation": "2020-10-07 19:12:00.119447",
```

```
            "tweet_text": "This is my first tweet"
        }
    ]
```

7: **feature:** Get Public Timeline
   Method: GET
   URL endpoint: `/tweetService/v1/publicTweets`
   Info:
      THis is a GET request which will fetch al the public user tweets with the limit of 25 tweets

   Output response:
```
    [
{
    "date_of_creation": "2020-10-07 19:12:00.119447",
    "tweet_text": "This is my first tweet",
    "userName": "john_doe"
},
{
    "date_of_creation": "2020-10-07 17:36:32.796050",
    "tweet_text": "aritraSen text 2",
    "userName": "aritraSen"
},
{
    "date_of_creation": "2020-10-07 17:36:14.877843",
    "tweet_text": "aritraSen text 1",
    "userName": "aritraSen"
},
{
    "date_of_creation": "2020-10-07 17:36:00.804187",
    "tweet_text": "AviD text 2",
    "userName": "AviD"
},
{
    "date_of_creation": "2020-10-07 17:35:48.237716",
    "tweet_text": "AviD text 1",
    "userName": "AviD"
},
{
    "date_of_creation": "2020-10-07 17:35:35.606831",
    "tweet_text": "kJagtap text 3",
```

```
        "userName": "kJagtap"
    },
    {
        "date_of_creation": "2020-10-07 17:35:25.473932",
        "tweet_text": "kJagtap text 2",
        "userName": "kJagtap"}]
```

8: **feature:** Get Home Timeline
   Method: GET
   URL endpoint: `/tweetService/v1/tweetsFromFollowings`
   Info:
   This is a GET request which takes userName as query parameter and returns the latest tweets from all the users which the user with userName follows. The number of total tweets are limited to 25
   E.g. `/tweetService/v1/tweetsFromFollowings?userName="john_doe"`

   Output response:

```
[
    {
        "date_of_creation": "2020-10-07 19:12:00.119447",
        "tweet_text": "This is my first tweet"
    }
]
```