

Assignment V1 Python/Django

Objective: Create a basic twitter like RESTful web service using Django framework.

Functional Requirements

1. Create a new user using name, email and password:

The following is a sample request payload:

```
{
  "name": "Jason Bourne",
  "email": "jason@gmail.com",
  "password": "jason1234",
  "password_confirmation": "jason1234"
}
```

2. User login using credentials created in 1. above.

The following is a sample request payload:

```
{
  "email": "jason@gmail.com",
  "password": "jason1234"
}
```

On successful login, the API should return a JWT token for further logged in actions.

3. Create a new Tweet
 - a. For this purpose of this assignment all tweets can be taken as having text only.

The following is a sample request payload:

```
{
  "tweet": "This is my first tweet"
}
```

4. Display all tweets posted by user till date.
 - a. The response payload should be a JSON array with the following attributes – timestamp, tweet, name in chronological order.

- b. Only 5 tweets should be returned at once. For additional tweets there will be a pagination value passed in the request.
 - c. In case of no tweets posted yet by the user, an empty json array should be returned in the response.
- 5. Search own tweets
 - a. Search by keyword functionality
 - b. In case of no tweets posted yet by the user, an empty json array should be returned in the response.
- 6. All users and tweets should be stored in a relational database.

Non- Functional Requirements

- 1. Include a Readme page with instructions on how to run the code.
- 2. Any additional assumptions made should be mentioned on the readme page.

Evaluation

The following will be parameters for evaluation

- 1. Good Code Quality
- 2. Reasonable validations on data points of the API
- 3. Good Code Structure
- 4. Standard Naming Conventions
- 5. Logic Used