Testing document for TODO APP Author: Srikanth Amudala

Table of Contents

Section 1: User registration and Testing	
Step 1: Initial setup	
Step 2: Auth tokens are generated using a registration API	
Step 3: (Testing)	2
Section 2: Accessing Admin dashboard:	3
Step 1: creating superuser	3
Admin Dashboard	4
Auth tokens:	5
Task details	6
Section 3: Verifying all API's through postman	6
Add TODO:	6
List all TODO's	7
Applying filters to list TODO:	8
Filtering through multiple fields	9
Update TODO:	10
Delete TODO:	10

Section 1: User registration and Testing

Step 1: Initial setup

Open terminal in the root folder and execute the following commands.

docker-compose run web python manage.py migrate

docker-compose up --build

Step 2: Auth tokens are generated using a registration API

Register a user and get the token from the response as below

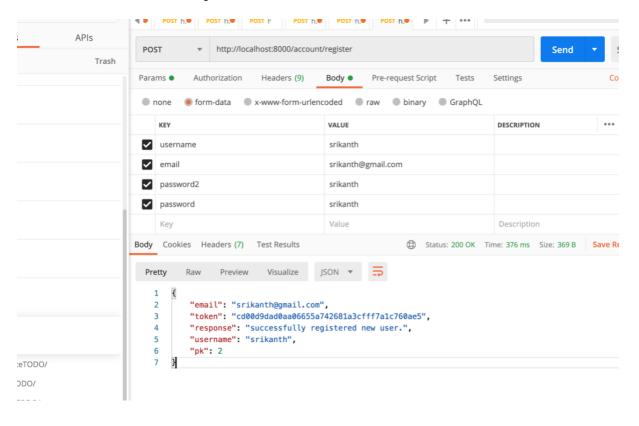
User Registration

url: http://localhost:8000/account/register

body: username, email, password, password2

*password2, password should match each other

Returns the auth token in the json format as shown below



Execute the following command for testing in the terminal

CD -> TODO_APP/testing_scripts

AUTH=<token> python3 api_testing_v2.py

Following screen shot shows the tests performed

Test 1: Adds a task to TODO List for the specific user using the token provided.

Test 2: Lists all the TODO tasks with filter sortby: title

Test 3: Updates the above added Task description and status

Test 4: Lists all TODO with filter using title

Test 5: Deletes the above added task

Test 6: Verifies if the above deleted Task is present in listallTODO

Section 2: Accessing Admin dashboard:

Step 1: creating superuser

To access the admin dashboard, open terminal and execute the following command

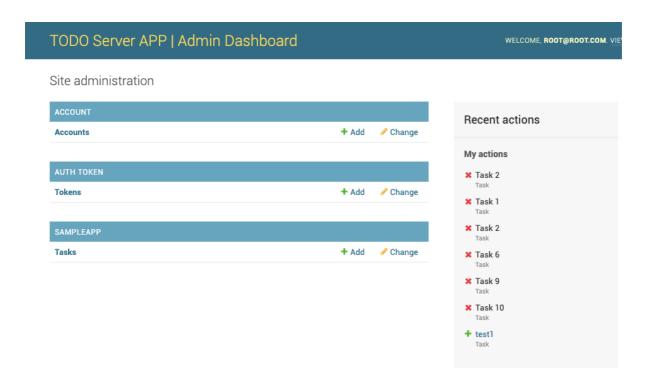
docker-compose run web python manage.py createsuperuser

provide the email id and password.

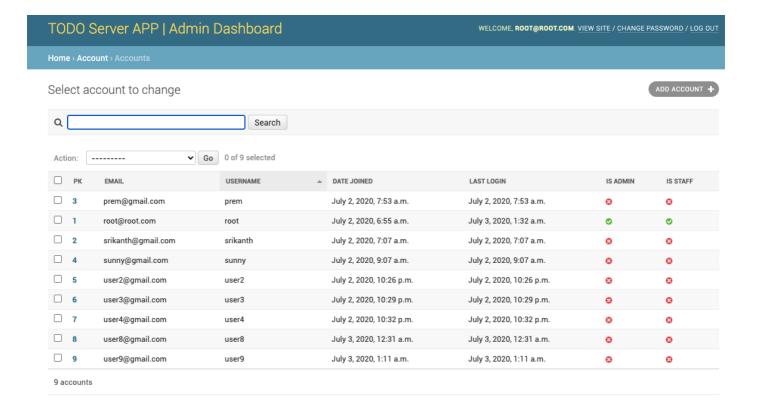
```
apples-MacBook-Pro:TODO_APP Srikanth$ docker-compose run web python manage.py createsuperuser
Starting todo_app2_db_1 ... done
Email: root@root.com
Password:
Password (again):
The password is too similar to the email.
This password is too short. It must contain at least 8 characters.
This password is too common.
Bypass password validation and create user anyway? [y/N]: y
Superuser created successfully.
apples-MacBook-Pro:TODO APP Srikanth$
```

We can now access the admin dashboard using the above created super user credentials.

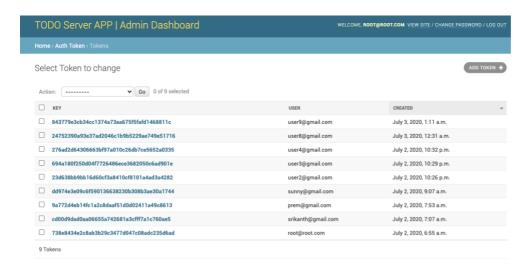
Admin Dashboard http://localhost/admin/



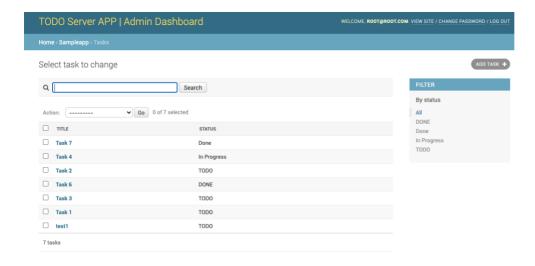
Users are registered through registration API, which automatically generations auth token and returns to the user as explained earlier.



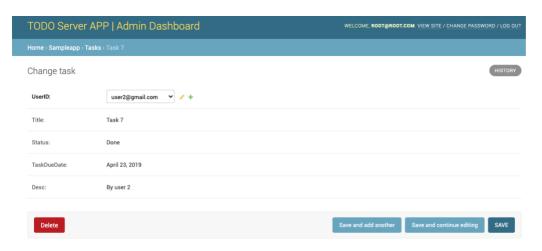
Auth tokens:



All tasks added by user, can be filtered from the side bar according to the status



Task details in read only mode



Section 3: Verifying all API's through postman

* for now all tasks in the db should be unique

Add TODO:

URL: http://localhost:8000/todo/addTODO/

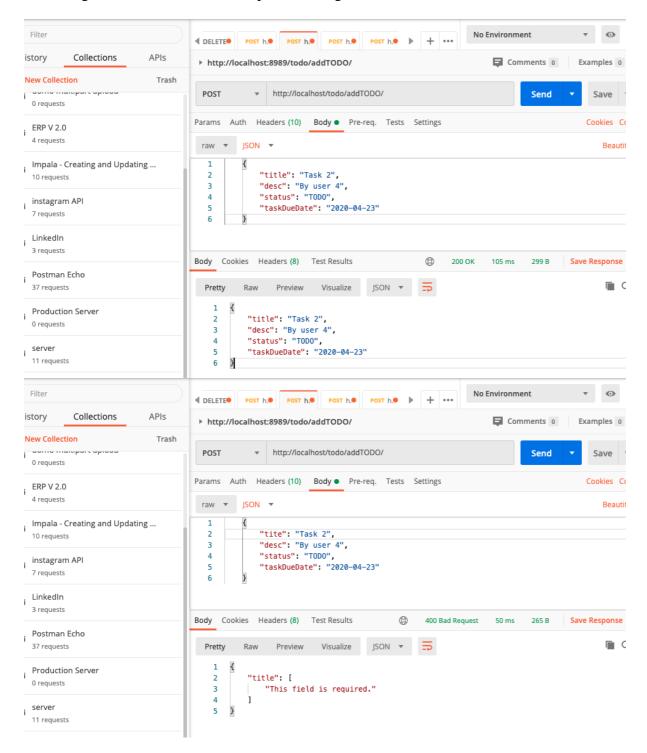
While making the call, please pass Headers filed while requesting the url as below Authorization Token <tokenValue>

Returns: added task

Error handling:

If a field is missed, returns the field title stating, field is required.

Following screen shot shows the output from Registered users



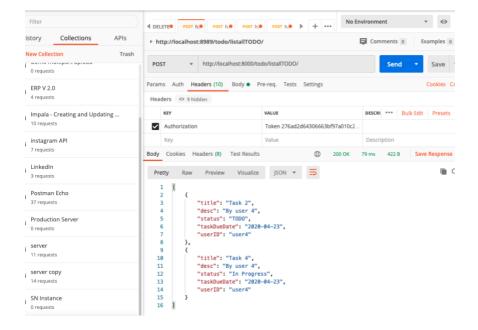
Tasks added

user4: Task 4, Task 2
 user2: Task 5, Task 7

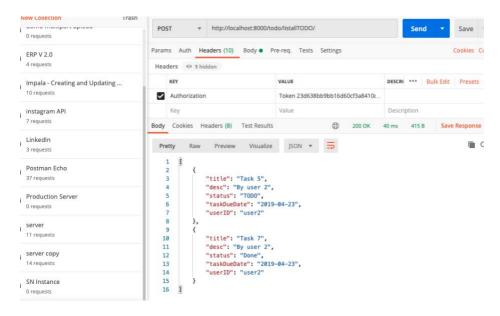
List all TODO's

URL: http://localhost:8000/todo/listallTODO/ returns the tasks of the specific user using the access token

Following screenshot shows the result, when user4 token has been used in the auth header.



Result, when inputted user2 token

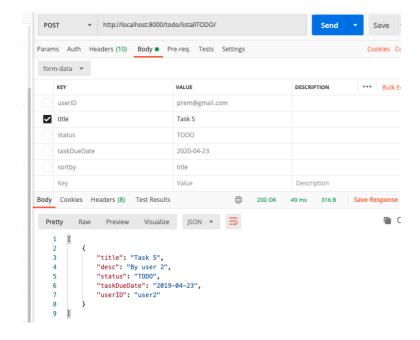


Applying filters to list TODO:

In the body, input the fields you want to filter as form data.

Example filter with title: Task 5 for user2

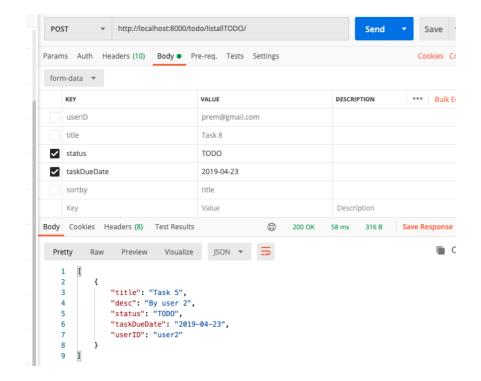
*filters the data only from the specific user, given an unknown task name, returns empty list.



Filtering through multiple fields

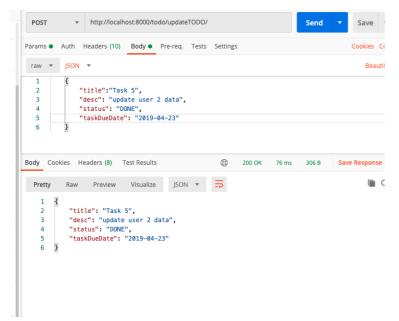
For example, user2 has two tasks with status TODO and DONE with the same taskDueData. Lets find the task with TODO on that specific date.

Following image shows the result



Update TODO:

Let's update the status of Task 5 to DONE for user2 and make some desc updates



*For time being we have to pass all the key fields while updating the data.

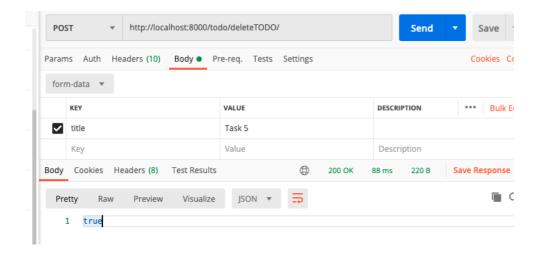
*If the user tries to update a task created by another user, the server returns unauthorized error.

Delete TODO:

URL: http://localhost:8000/todo/deleteTODO/

Takes title as input body field

Let us try to delete Task 5 from user2, returns a Boolean True, if successful else error reason



^{*}If the user tries to delete a task created by another user, the server returns unauthorized error.