# Portal for Doctor and patient

**Description:**

Build REST API using python Django web service to manage doctor and patience queries. Doctors and patients both are treated as a user.

**Requirements:**

1. Must have Separate login and separate services (Both doctor and patients)
2. Should use the Django user model and store the patient as well as the doctor.
3. Should extend the model for storing the other user-related details.
4. The patient should ask for suggestions for medicines
5. The doctor should be able to respond to the suggestion of patients. (Like prescribing medicines)
6. History of suggestions for both doctor and patience.
7. Proper API restriction should be handled. (Patient should not able to access Doctor API - Vice versa)
8. One doctor can have many patients.
9. The doctor should be able to give suggestion to any patient even if the patient is not asked any suggestion.

**API's**

1. Login API
2. Create a User API (Doctor and patient)
3. Medicine suggestion API (Patient)
4. Medicine respond API (Doctor)
5. Medicines history API (Patient )
6. Patients history API (doctor)
7. Health Suggestion to Patient by Doctor API (Doctor)

To Run this Django Project:

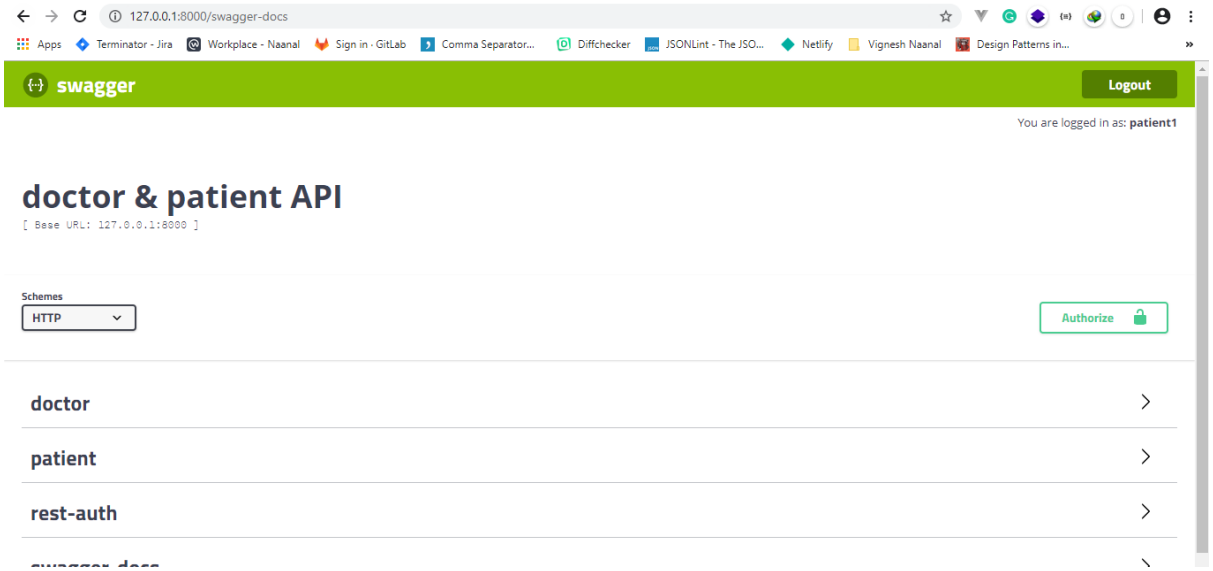
1. Activate a virtual env
2. Type python manage.py runserver

I have developed a project in window 10. So this project virtual env run only windows env.

Please verify the virtual environment works correctly or not. if not works virtual env you need to create virtual env first and install a requirement

1. Virtualenv Venv
2. Source venv/bin/activate (for ubuntu)
3. cd Venv/Scrips/ and activate (for windows)
4. pip install –r requirement.txt

**You can view available api in ‘ /swagger-docs ’**



**Login APIs**

1) /rest-auth/login/
2) /rest-auth/logout/
3) /rest-auth/password/change/
4) /rest-auth/registration/
5) /rest-auth/user/

**Patient Suggestions APIs**

For Patient

1) /patient/suggestion-request/

For Doctor

2) /patient/suggestion-response/

For Doctor and Patient

3) /patient/patient-doctor-suggestion-history/

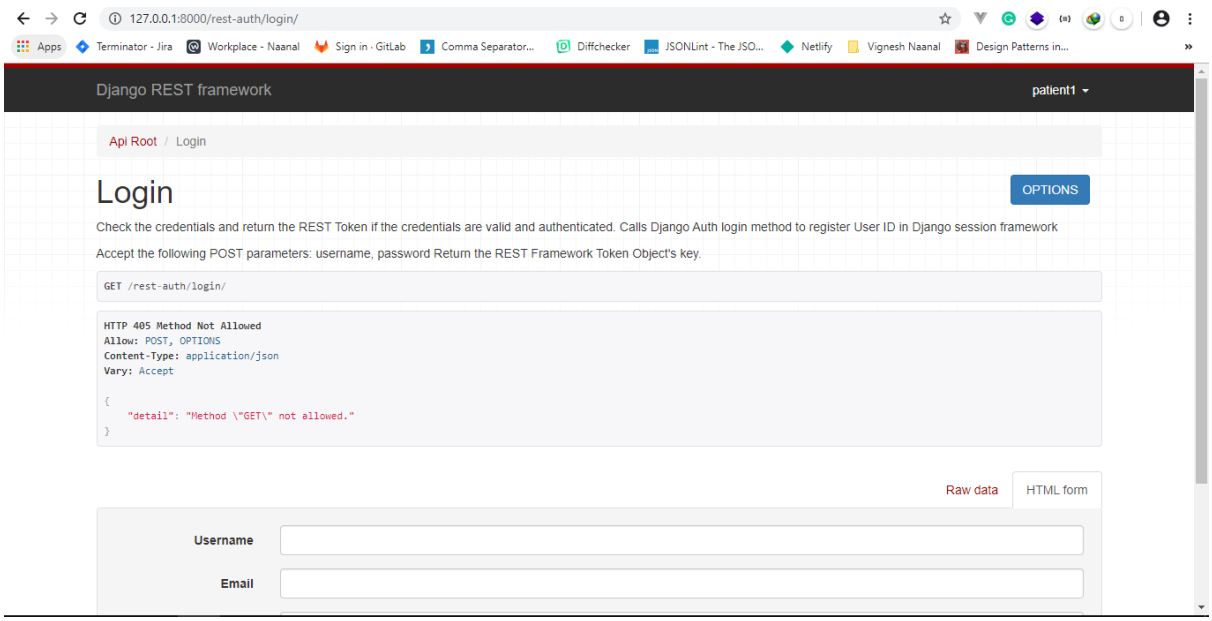
**Doctor Suggestions**

1) doctor/suggestion-by-doctor
2) doctor/suggestion-to-patient

Login APIs

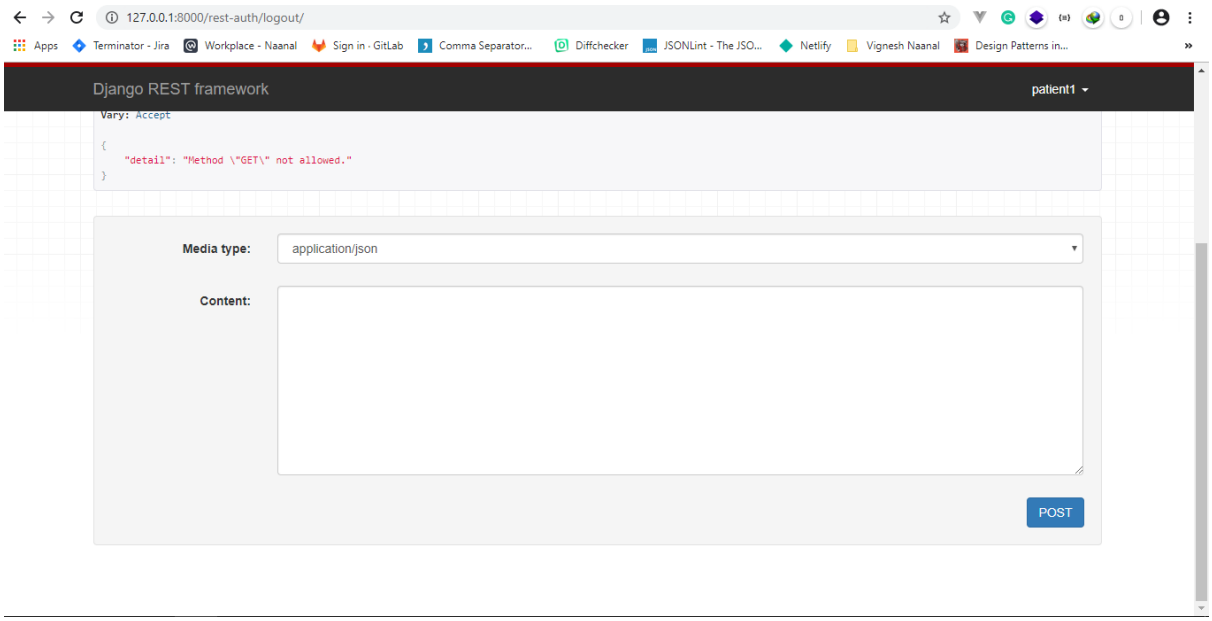
API = ‘ /rest-auth/login/ ’

- This API used to login a User’s like patient and doctor.
- Both user can use this api for login



API = ‘ /rest-auth/logout/ ’

- Used for logout purpose

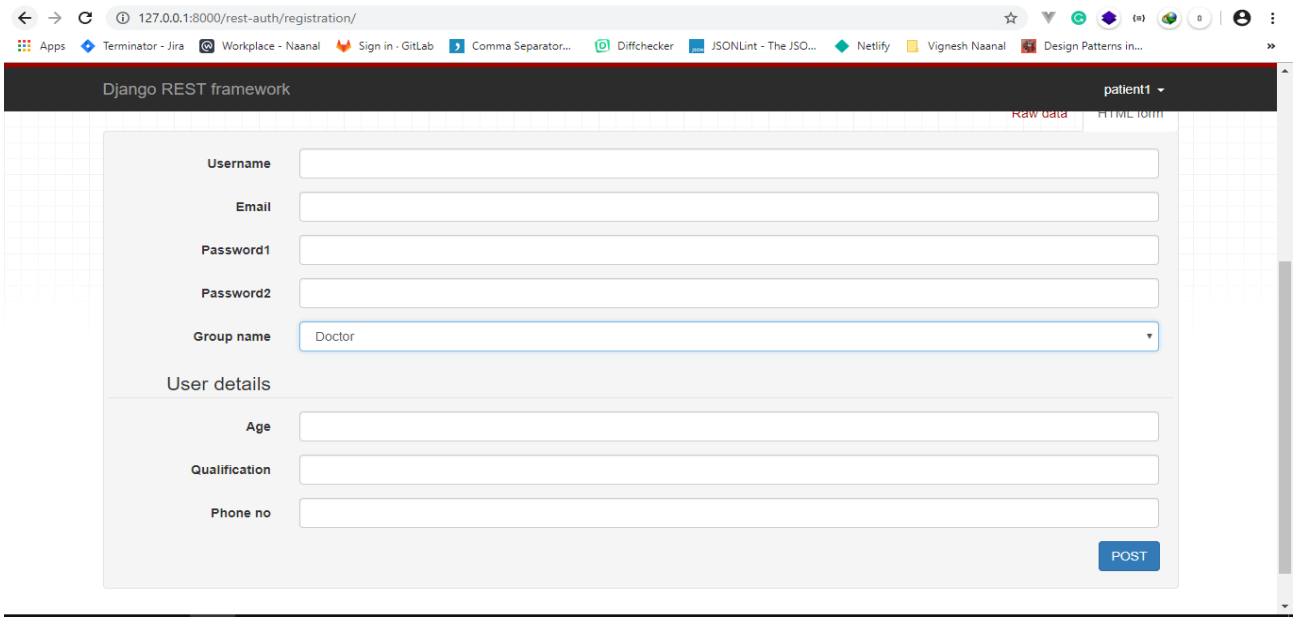


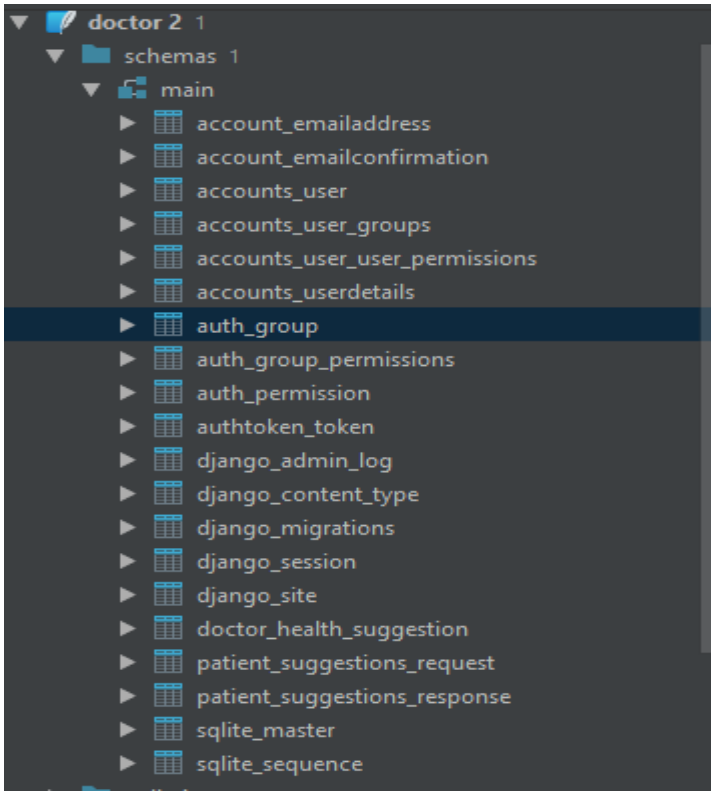

API = /rest-auth/registration/

- For register a user. You can register a user with one group permission,  Patient or Doctor
- User can extend the user details

Tables:

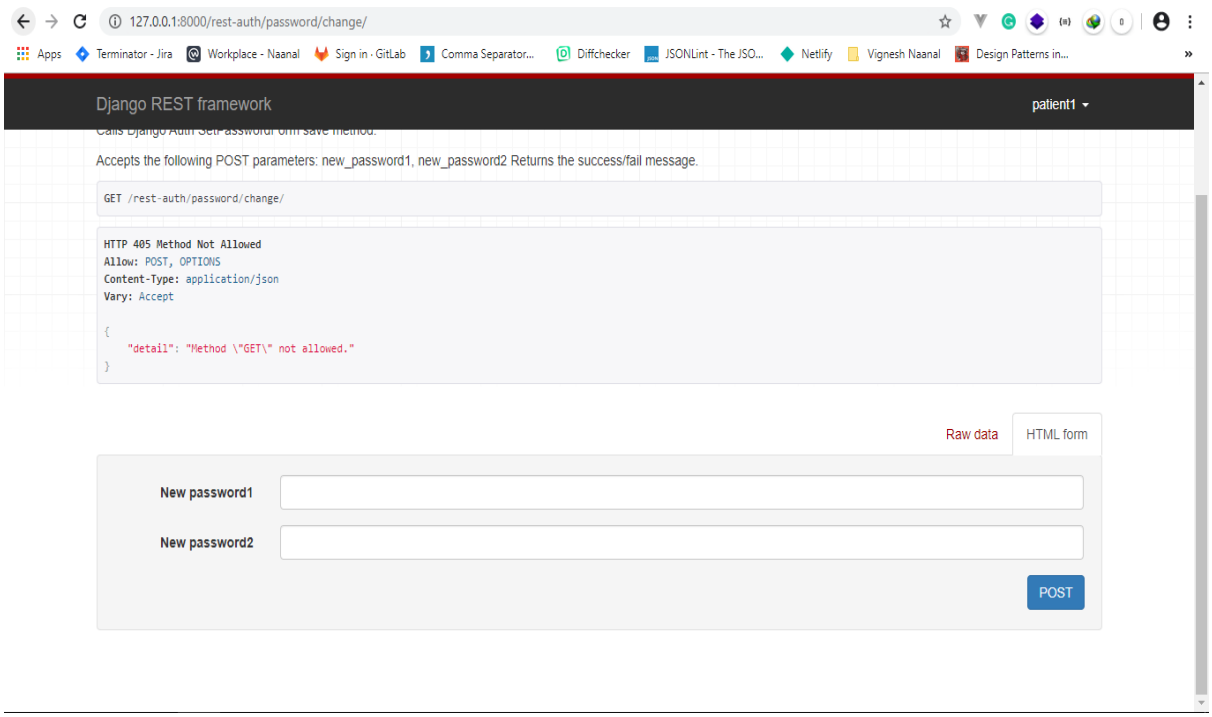
1. ‘accounts_user’ this table is the primary for user login and password.
2. ‘accouts_userdetails’ this table used for extend the user details.
3. ‘ auth_group ‘ store the group name- patient, Doctor
4. ‘ accounts_user_group ‘ the group is mapped to user.





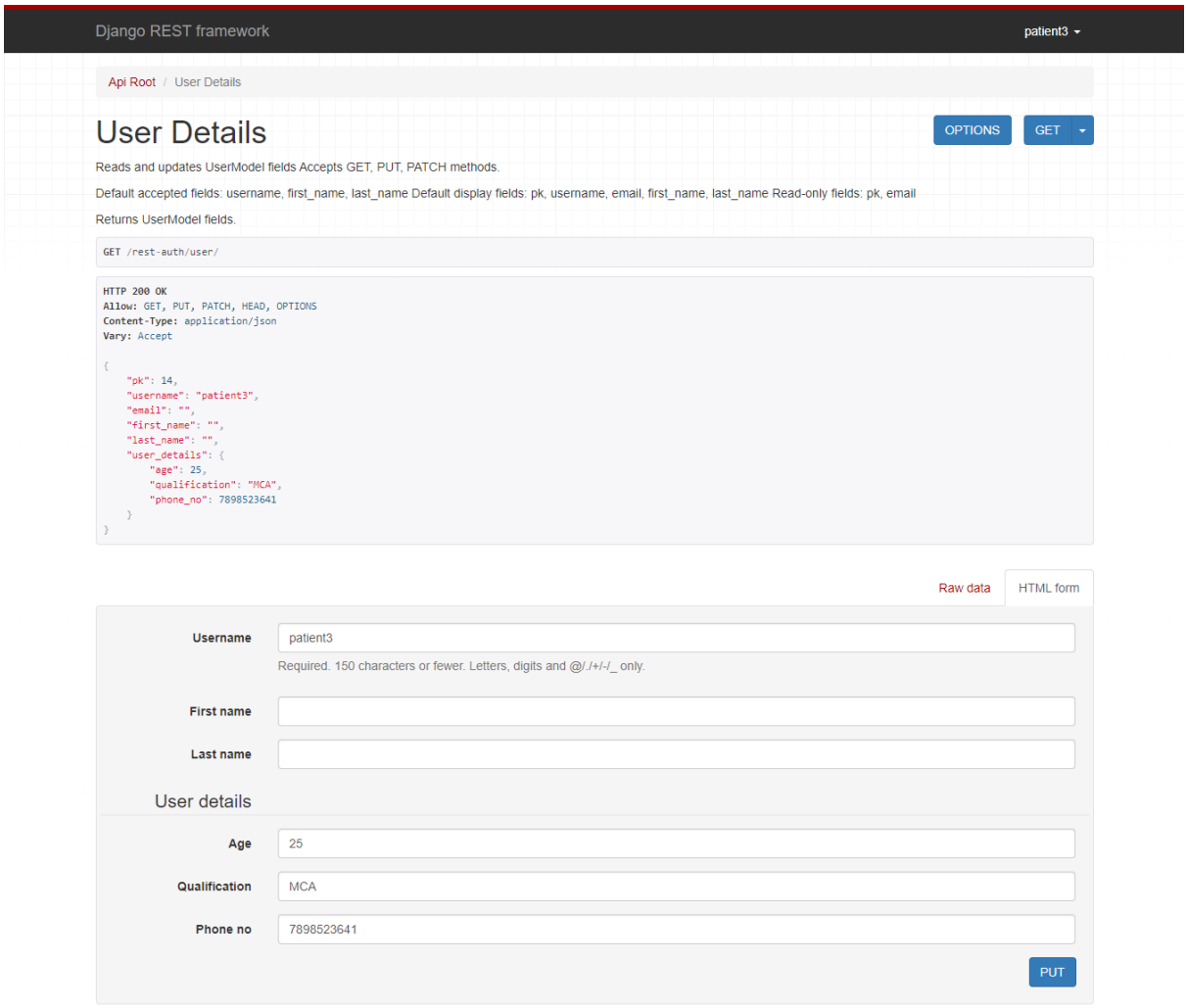

API = /rest-auth/password/change/

- This api used for loged user can change a password



API = rest-auth/user/

- This api can used for user can change a extra details of user. Like age, phone number and education

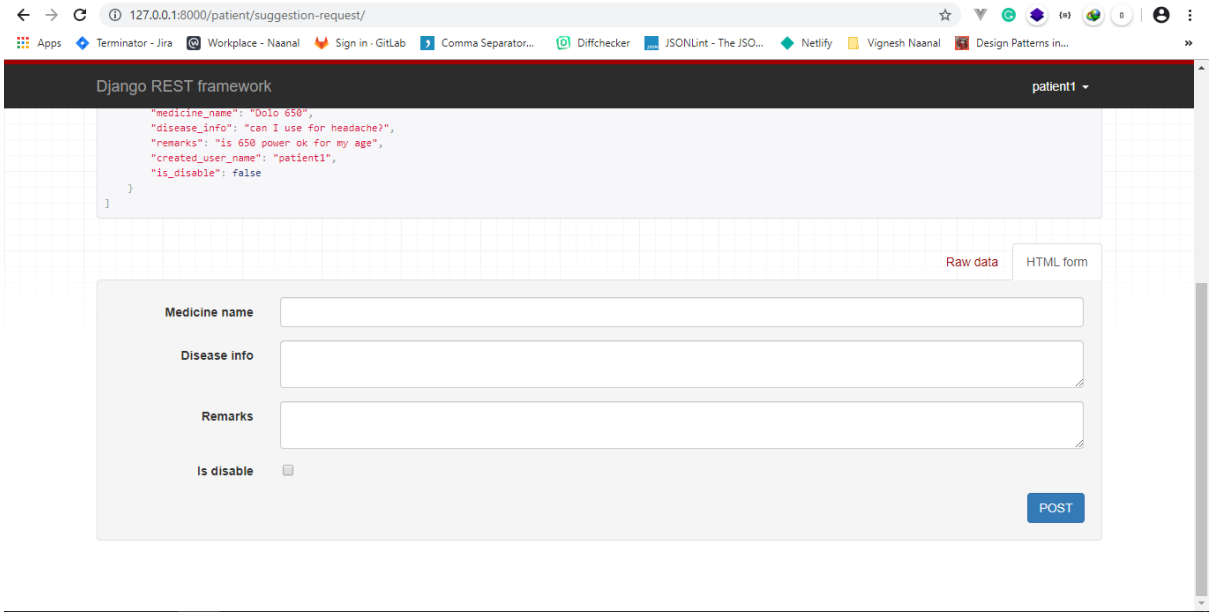



**Patient Suggestions APIs**

For Patient

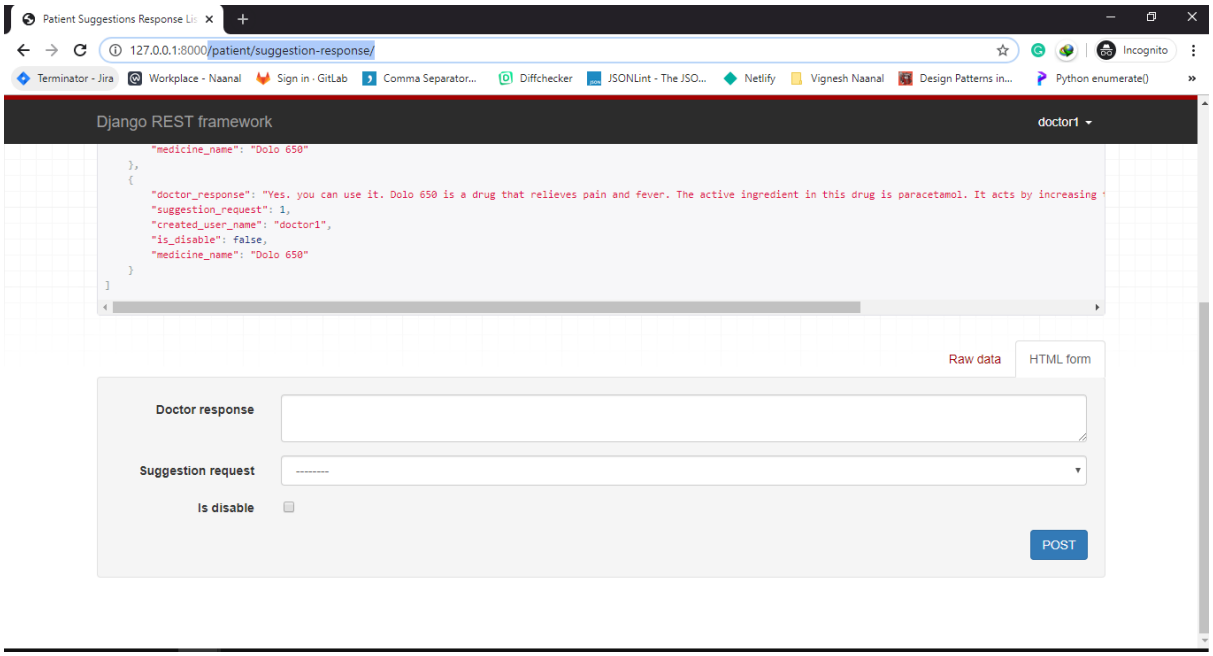
API = /patient/suggestion-request/

- This api can used for patient only. Don't have a access for doctors.
- Patient view own request only. Don't view other patient request suggestions
- Patient can ask for a medicine suggestion. Medicine_name, disease_ info, remarks.
- Patient can't delete a request directly. Instant of use disable an request using is_disable flag.
- Any doctor can reply to the patient request suggestions.




API = /patient/suggestion-response/

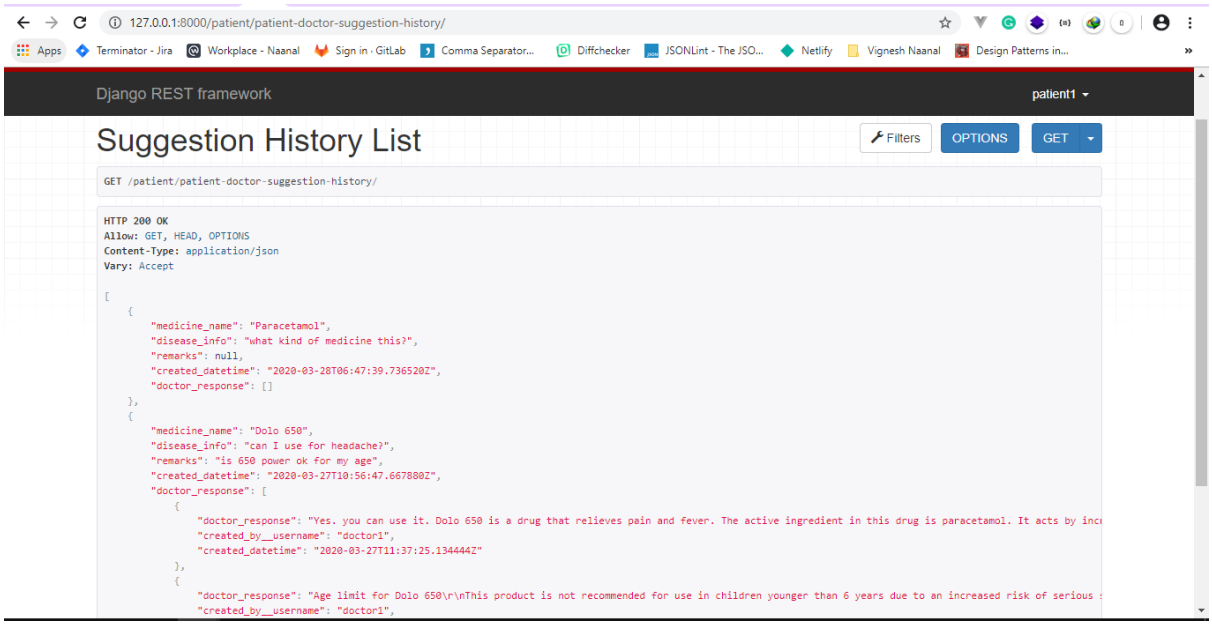
- Any doctors can response a patient suggestion request
- Doctor can only view own suggestions.
- This api can used for doctors only. Don't have an access for patients.
- Doctor can't delete a request directly. Instant of use disable a request using is_disable flag.



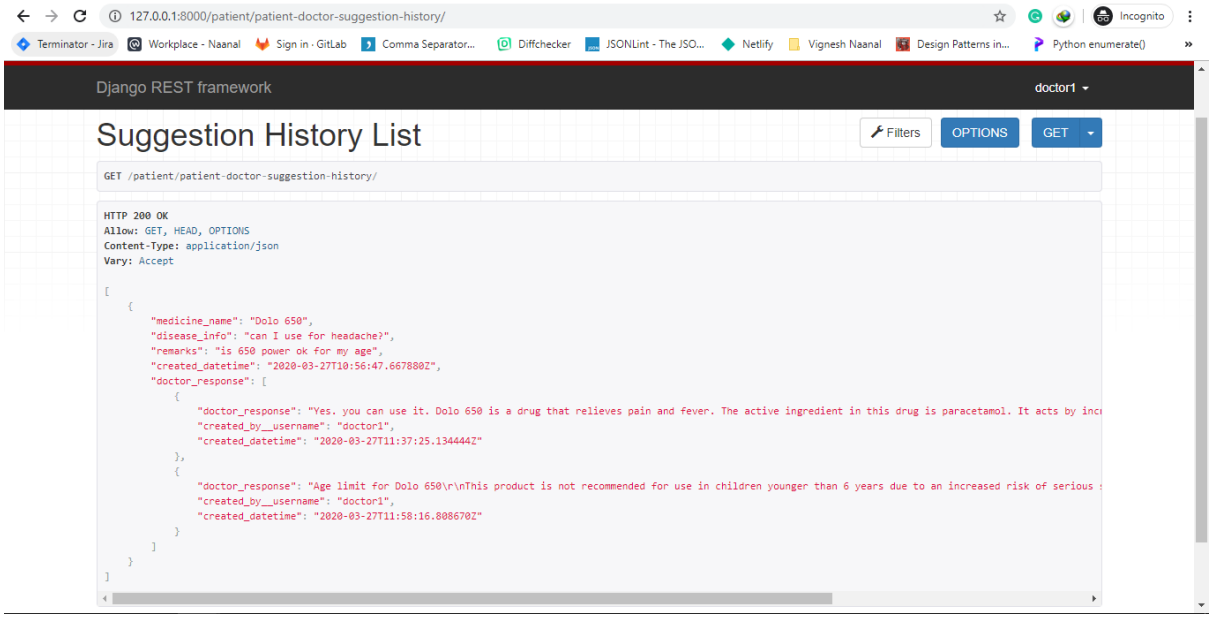
API = patient/patient-doctor-suggestion-history/

- This API used for history of patient and doctor suggestion history
- Can access an API only authenticated members. Both doctors and patient can access this API.
- This suggestion history API, this API data is must be in particular condition
  Request made by me (or) response made by me.

  Patient view



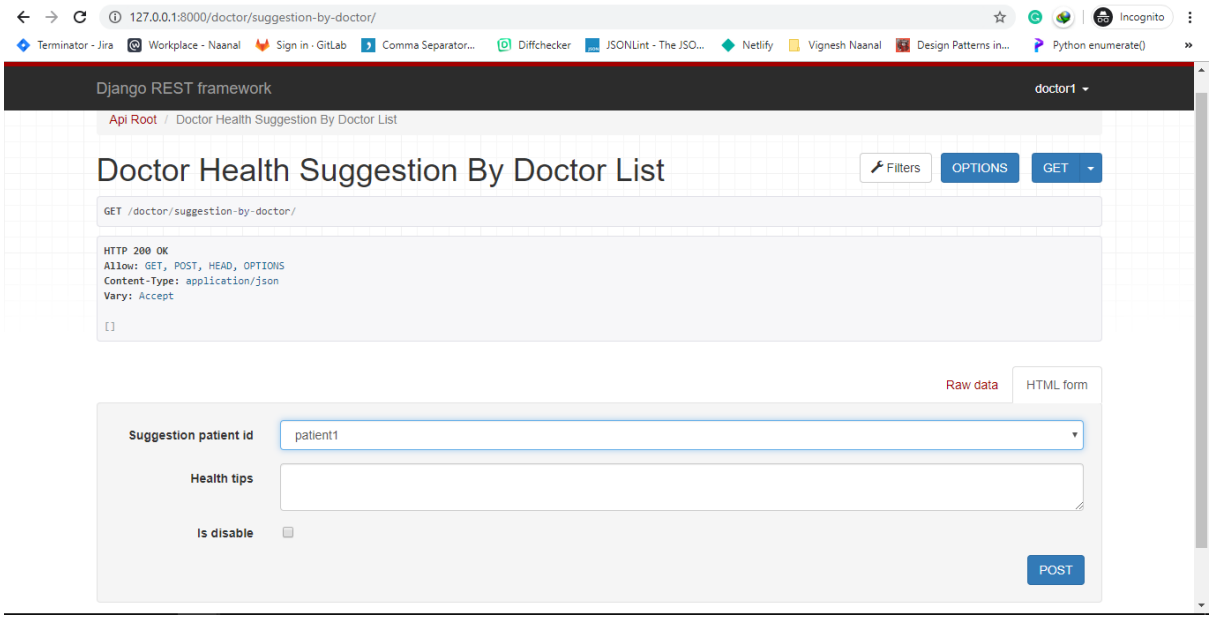

  Doctor View



**Doctor Suggestions**

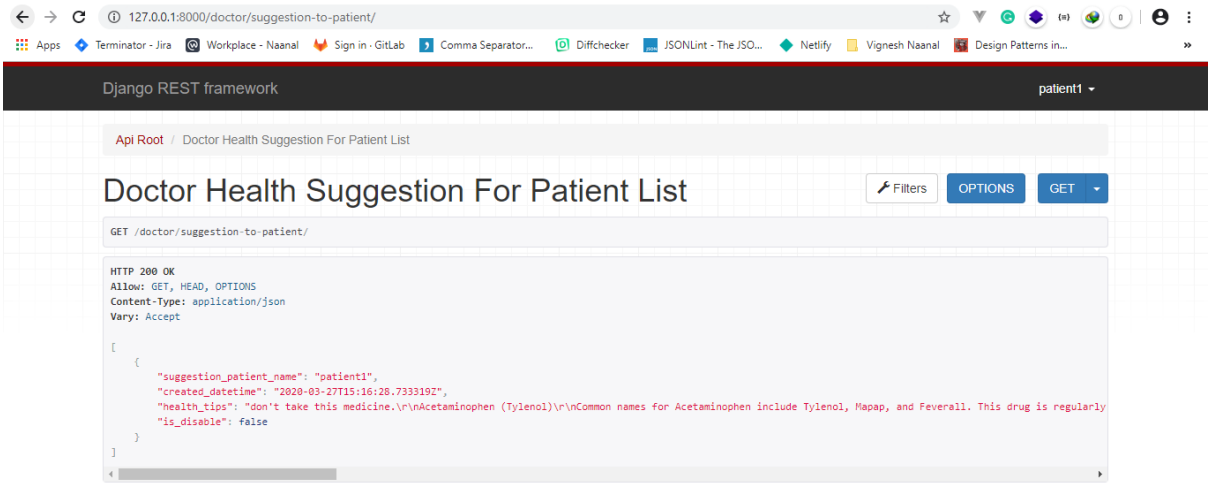
API = doctor/suggestion-by-doctor

- This API used for doctor give a Health Suggestion to Patient.
- Patient can't access this API
- Doctor should select a Patient and enter a health tips for patient and submit a suggestion




API = doctor/suggestion-to-patient

- This API is used for patient can view a doctor advice to patient
- Only patient can access this API
- This API is read only

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## User Name and Passwords

### Admin:

Username: vignesh

Password :vignesh

### Doctor Logins:

Username: doctor1

Password:  vigneshd1

Username: doctor2

Password:  vigneshd2

Username: doctor3

Password:  vigneshd3

### Patient Logins:

Username: patient1

Password: vigneshp1

Username: patient2

Password: vigneshp2

Username: patient3

Password: vigneshp3