

This document describe how to starting using this api in your local computer

Docker database configuration

step 0: After the repositories downoladed unzip it and open a terminal in the extracted folder

step 1: Install docker in ubuntu and pull a mysql image

after the installation of docker on your local machine, pull the latest MYSQL image into it. [docker documentations](#)

step 2: create docker container to hold the database

in your teminal :

```
$ docker run --name=api_database -e MYSQL_ROOT_PASSWORD=Password -p 3306:3306 -d mysql
```

step 3: create and migrate the database to docker container

connect to mysql container :

```
$ docker exec -it api_database mysql -uroot -pPassword
```

create database inside MYSQL container:

```
mysql> CREATE DATABASES api_database;  
mysql> EXIT;
```

step 3: migrate the dump database into mysql container :

```
$ docker exec -i api_database mysql -uroot -pPassword api_database < api_database.sql
```

Install python requirment and lunch the api

Python and Django Configurati on

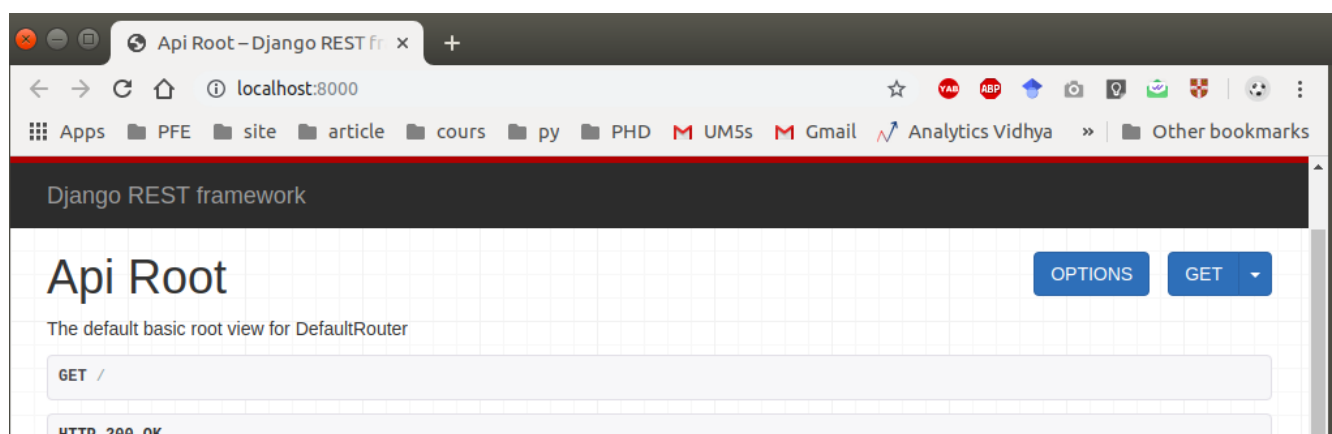
For the python and Django configuration:

Open terminal in extracted folder :

```
$ chmod +x djanog_conf.sh
```

```
$ ./django_conf.sh
```

Finally visit (<http://localhost:8000>)

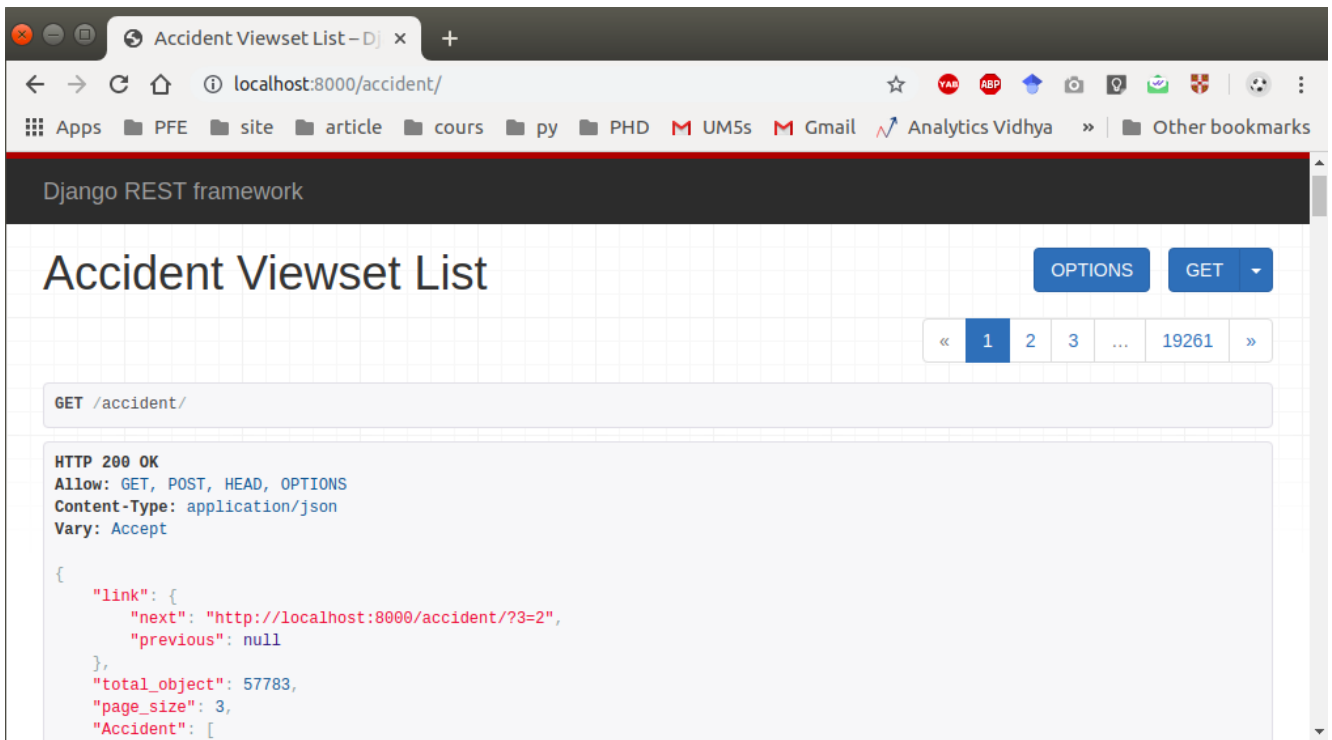


```
Allow: GET, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

{
  "caracteristiques": "http://localhost:8000/caracteristiques/",
  "lieux": "http://localhost:8000/lieux/",
  "usagers": "http://localhost:8000/usagers/",
  "vehicules": "http://localhost:8000/vehicules/",
  "accident": "http://localhost:8000/accident/"
}
```

Illustrations :

Get all the information about the accidents, 5 accident per page



Accident Viewset List

OPTIONS GET

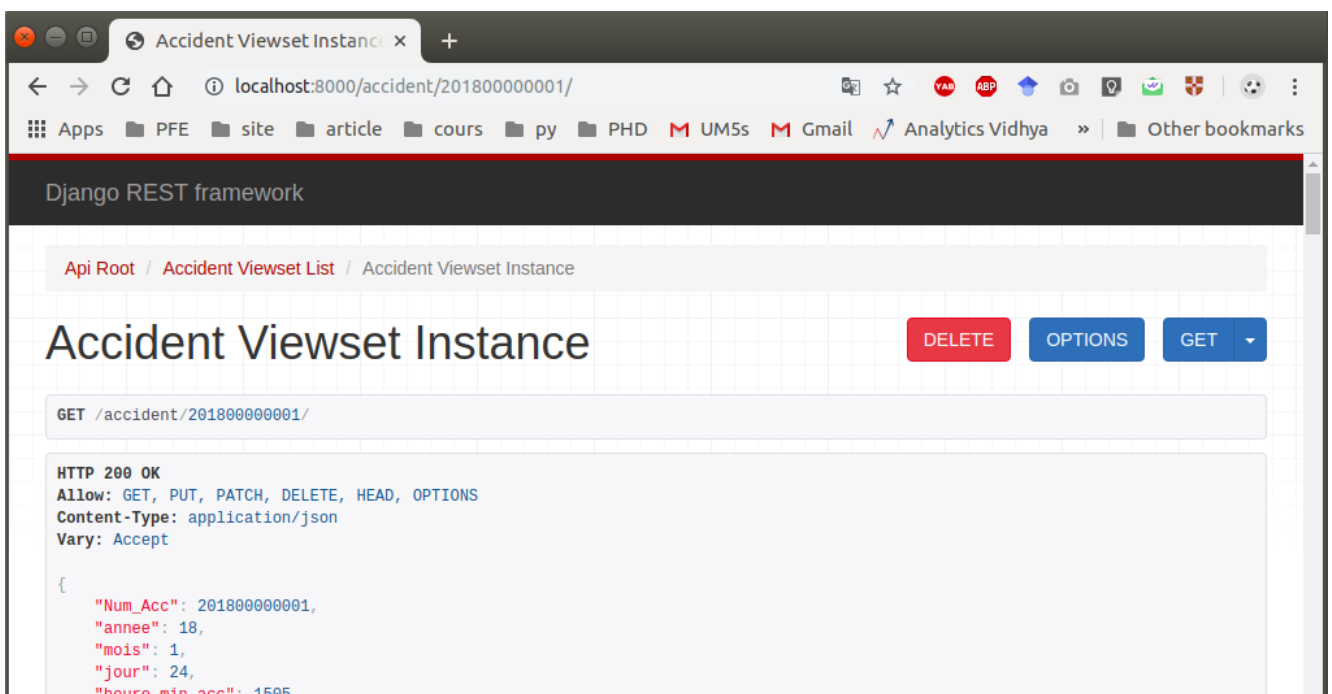
« 1 2 3 ... 19261 »

GET /accident/

HTTP 200 OK
Allow: GET, POST, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "link": {
    "next": "http://localhost:8000/accident/?3=2",
    "previous": null
  },
  "total_object": 57783,
  "page_size": 3,
  "Accident": [
```

Get all the information about the accident 201800000001, and we can edit it



Accident Viewset Instance

DELETE OPTIONS GET

GET /accident/201800000001/

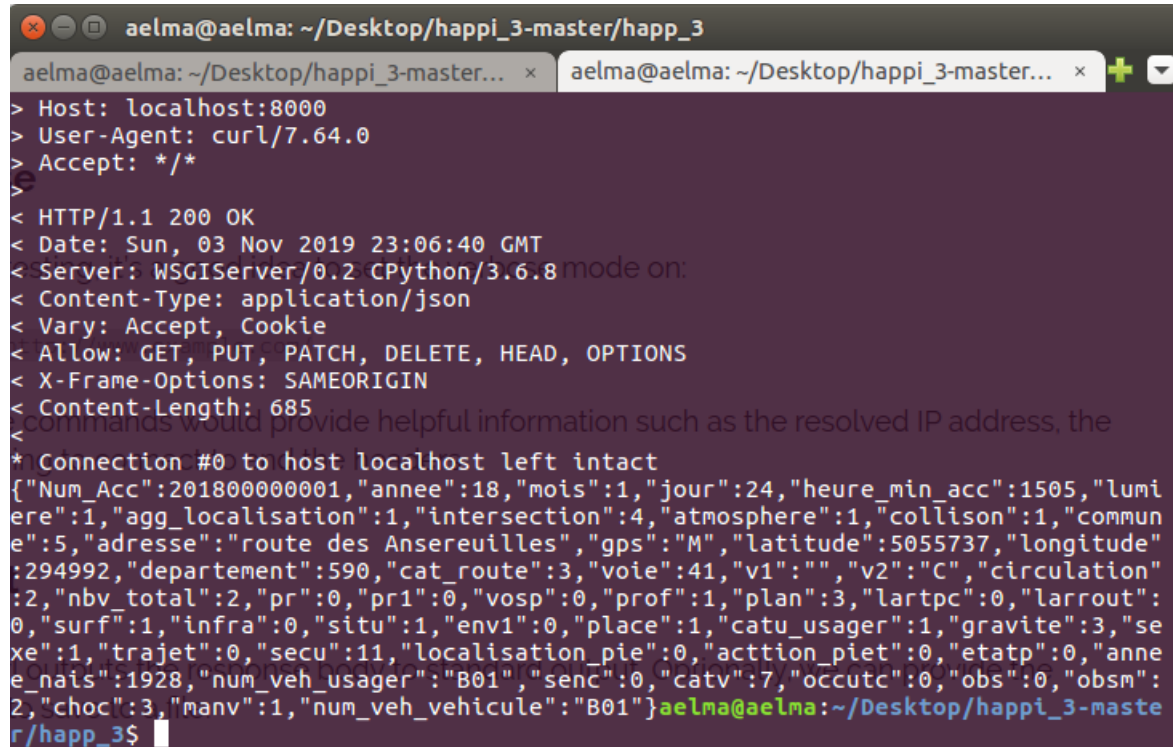
HTTP 200 OK
Allow: GET, PUT, PATCH, DELETE, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "Num_Acc": 201800000001,
  "annee": 18,
  "mois": 1,
  "jour": 24,
  "heure_min_acc": 1505,
```

```
"lumiere": 1,  
"agg_localisation": 4
```

Interact with the api using Termianl

```
$ curl -v localhost:8000/accident/201800000001/
```



The screenshot shows a terminal window with a dark background. At the top, there are two tabs: 'aelma@aelma: ~/Desktop/happi_3-master/happ_3' and 'aelma@aelma: ~/Desktop/happi_3-master...'. The terminal output shows the details of a curl command executed to 'localhost:8000'. It includes headers like 'Host', 'User-Agent', and 'Accept', followed by status '200 OK' and various response headers such as 'Date', 'Server', 'Content-Type', and 'Content-Length'. The final line of the output is a large JSON object representing an accident record.

```
> Host: localhost:8000  
> User-Agent: curl/7.64.0  
> Accept: /*  
>  
< HTTP/1.1 200 OK  
< Date: Sun, 03 Nov 2019 23:06:40 GMT  
< Server: WSGIServer/0.2 CPython/3.6.8 mode on:  
< Content-Type: application/json  
< Vary: Accept, Cookie  
< Allow: GET, PUT, PATCH, DELETE, HEAD, OPTIONS  
< X-Frame-Options: SAMEORIGIN  
< Content-Length: 685  
* Connection #0 to host localhost left intact  
{  
  "Num_Acc": 201800000001, "annee": 18, "mois": 1, "jour": 24, "heure_min_acc": 1505, "lumiere": 1, "agg_localisation": 1, "intersection": 4, "atmosphere": 1, "collison": 1, "commune": 5, "adresse": "route des Ansereuilles", "gps": "M", "latitude": 5055737, "longitude": 294992, "departement": 590, "cat_route": 3, "voie": 41, "v1": "", "v2": "C", "circulation": 2, "nbv_total": 2, "pr": 0, "pr1": 0, "vosp": 0, "prof": 1, "plan": 3, "lartpc": 0, "larrou": 0, "surf": 1, "infra": 0, "situ": 1, "env1": 0, "place": 1, "catu_usager": 1, "gravite": 3, "sexe": 1, "trajet": 0, "secu": 11, "localisation_pie": 0, "action_piet": 0, "etatp": 0, "annee_nais": 1928, "num_veh_usager": "B01", "senc": 0, "catv": 7, "occute": 0, "obs": 0, "obsm": 2, "choc": 3, "manv": 1, "num_veh_vehicule": "B01"}  
aelma@aelma: ~/Desktop/happi_3-master/happ_3$
```

In []: