**NYC Bike Trips Web Service**

**Introduction :**

NYC bike trip is a web based service application, it is develop in python django technology . By help of this application can be find nearest station point help of the latitude , longitude as well as in the API response it will provide a near station and weather condition.

**Live Demo ( Deploy on AWS ) :**

Base URL : http://3.89.241.61:8000/

API URL : <http://3.89.241.61:8000/api/>

Credentials :

Username : admin

Password : admin

**GitHub URL** :

https://github.com/Sachin880699/BikeTrip

**System Requirements :**

**\*** Linux/Windows/Mac

**\*** Python3 , virtualenv , Internet

**Setup Step :**

1 ) : Take project clone from github

CMD : git clone <https://github.com/Sachin880699/BikeTrip>

2 ) : create virtualenv

CMD : python3 -m virtualenv env && cd bin && source activate && cd ..//..

3 ) : Install dependency

CMD : pip install -r requirements.txt

5 ) Do the makemigrations , migrate

CMD : python manage.py makemigrations && python manage.py migrate

6 ) Now create superuser

CMD : python manage.py createsuperuser

7 ) Now run the server

CMD : python manage.py runserver

**How to use :**

1 ) download CSV file by help of the django management command and past Zip file url

CMD : python manage.py download\_csv\_file

2 ) first zip file will download, it will automatically extract and csv data will import in database model

3 ) now run the server

**API :**

Name : Trip List

Method : GET

URL : <http://3.89.241.61:8000/api/trip_list/>

Response :

{

"Message": "success",

"Output": [

{

"id": 1,

"tripduration": "347",

"start\_time": "2017-05-01 00:03:19",

"stop\_time": "2017-05-01 00:09:06",

"start\_station\_id": "3276",

"start\_station\_name": "Marin Light Rail",

"start\_station\_latitude": "40.71458403535893",

"start\_station\_longitude": "-74.04281705617905",

"end\_station\_id": "3214",

"end\_station\_name": "Essex Light Rail",

"end\_station\_latitude": "40.7127742",

"end\_station\_longitude": "-74.0364857",

"bike\_id": "26177",

"user\_type": "Subscriber",

"birth\_date": "1958",

"gender": "1"

}]

}

Name : Trip Details

Method : POST

URL : <http://3.89.241.61:8000/api/trip_details/>

Parameter : trip\_id

Response :

{

"Message": "success",

"Trip\_Obj": {

"id": 7768,

"tripduration": "933",

"start\_time": "2/1/2015 17:49",

"stop\_time": "2/1/2015 18:04",

"start\_station\_id": "489",

"start\_station\_name": "10 Ave & W 28 St",

"start\_station\_latitude": "40.75066386",

"start\_station\_longitude": "-74.00176802",

"end\_station\_id": "251",

"end\_station\_name": "Mott St & Prince St",

"end\_station\_latitude": "40.72317958",

"end\_station\_longitude": "-73.99480012",

"bike\_id": "14703",

"user\_type": "Subscriber",

"birth\_date": "1985",

"gender": "1"

},

"Nearest\_Location": {

"City": "New York City, Central Park",

"Distance": "4 KM"

},

"Weather": {

"number": 1,

"name": "Today",

"startTime": "2022-11-04T11:00:00-04:00",

"endTime": "2022-11-04T18:00:00-04:00",

"isDaytime": true,

"temperature": 69,

"temperatureUnit": "F",

"temperatureTrend": null,

"windSpeed": "3 to 7 mph",

"windDirection": "SW",

"icon": "https://api.weather.gov/icons/land/day/sct?size=medium",

"shortForecast": "Mostly Sunny",

"detailedForecast": "Mostly sunny, with a high near 69. Southwest wind 3 to 7 mph."

}

}