

# TOR IP List RESTful API

## .Introduction

This is a minimal implementation of a RESTful API using Flask and SQLite that fetches TOR IP addresses from two third-party APIs (<https://onionoo.torproject.org/> and <https://www.dan.me.uk/>) and sends it back to the user in a compiled list.

## .Interface

### APPLICATION/JSON

Endpoints:

.GET - /fullList

-> returns a list containing all TOR IPs gathered

.POST - /ban\_ip

-> lets the user send an IP address to a blacklisted IPs database following the format {'ip\_address': '<ip address>'}

-> returns the total amount of blacklisted addresses

.GET - /validList

-> returns the same list as /fullList minus the blacklisted IPs

Exemple with Python:

```
import json
```

```
import requests
```

```
BASE = "http://localhost:5000/"
```

```
resp1 = (requests.get(BASE + "fullList")).json()
```

```
resp2 = (requests.post(BASE + "ban_ip", json = {'ip_address': resp1[0]})).json()
```

```
resp3 = (requests.get(BASE + "validList")).json()
```

```
print("\nFULL LIST: ", len(resp1), "\n")
print(*resp1[0:6], sep = '\n')
print("....\n\nBanned 1 more ip address... (" , resp2['data'], ") total")
print("\n\nVALID ONLY LIST: ", len(resp3), "\n")
print(*resp3[0:6], sep = '\n')

print("....\n\n")
```

## API PROVIDED VIEW

You can interact with the html interface rendered with Flask to test its functionality.

With the server running, type <http://localhost:5000> on your address bar to use it.