

MAJOR LEAGUE HACKING TAKE HOME CHALLENGE

How to make three API calls using the Hacker News API in Python?



Introduction:

The Hacker News API allows individuals to retrieve news information on their website:

- The ability to find the newest news.
- Find the latest comments on the website.
- Search for profile changes that a user has made.

Prerequisites:

Before you begin this guide, you need the following:

- You need to set up a local development environment for Python 3. <u>How to install</u>
 Ubuntu?
- A text editor that you will be comfortable using: <u>Sublime Text</u>, <u>Atom</u>, <u>Visual Studio Code</u>.
- You need a <u>Hacker News</u> account.

What To Install:

- You need to install Requests using PIP in Terminal.
- Press CTRL + ALT + T on your keyboard and type:
- PIP install requests.

API Calls:

- **GET** Requests a resource at the requested URL.
- **OPTIONS** Indicates which techniques are supported.
- **HEAD** Returns meta data from the requested URL.

Use:

1. Copy this code:

```
# Item and profile changes in hackernews

# Requests a resource at the requested URL.

def hackernewsgetapirequest():

req = requests.get('')

print (req.text)

print ("Status Code", req.status_code)

# Indicates which techniques are supported.

def hackernewsoptionsapirequest():

req = requests.options('')

print (req.text)

print ("Status Code", req.status_code)

# Returns meta information in that given URL.

def hackernewsheadapirequest():

req = requests.head('')

print ("Status Code", req.status_code)

# Requests a resource at the requested URL.

hackernewsgetapirequest()

# Indicates which techniques are supported.

# hackernewsoptionsapirequest()

# Returns meta information in that given URL.

# Hackernewsoptionsapirequest()
```

2. Copy the code below, indent and paste it on line 7 to make a GET API call:

"req = requests.get('https://hacker-news.firebaseio.com/v0/updates.json?print=pretty')"

3. Run the Python script and it will GET the information in JSON.

- 4. Copy the code below, indent and paste it on line 13 to make an OPTIONS API call:
 "req = requests.options('https://hacker-news.firebaseio.com/v0/updates.json?print=pretty')"
- 5. Delete the # on line 27:

```
import requests

# Item and profile changes in hackernews

# Requests a resource at the requested URL.

def hackernewsgetapirequest():
    req = requests.get('https://hacker-news.firebaseio.com/v0/updates.json?print=pretty')
    print (req.text)
    print ("Status Code", req.status_code)

# Indicates which techniques are supported.

def hackernewsoptionsapirequest():
    req = requests.options('')
    print (req.text)
    print ("Status Code", req.status_code)

# Returns meta information in that given URL.

def hackernewsheadapirequest():
    req = requests.head('')
    print (req.text)
    print ("Status Code", req.status_code)

# Requests a resource at the requested URL.
hackernewsgetapirequest()

# Indicates which techniques are supported.
# Indicates which techniques are supported.
# Hackernewsoptionsapirequest()

# Returns meta information in that given URL.
# Hackernewsheadapirequest()

# Returns meta information in that given URL.
# Hackernewsheadapirequest()
```

6. Run the Python script to see which **OPTIONS** are supported:

```
1. alvinlawson@Alvins-Air: ~/Desktop/MajorLeagueHackingAssignment (zsh)
(venv) alvinlawson@Alvins-Air > ~/Desktop/MajorLeagueHackingAssignment
                                                                                master • python
 hackernewsstep2.py
 "items": [ 17074775, 17074933, 17075294, 17073244, 17075288, 17075333, 17075439, 17075233,
 17074488, 17075340, 17075390, 17075440, 17075399, 17075280, 17075435, 17075124, 17074983, 17
074897, 17074435, 17075436, 17074852, 17075225, 17074361, 17074960, 17074798, 17075291, 17075
438, 17073924, 17075441, 17075402, 17073028, 17074294, 17075350, 17075434, 17075303, 17075357
, 17075348, 17075080, 17072713, 17075172, 17073972, 17075421, 17075437, 17075365, 17074027, 1
7075376, 17071358, 17075261, 17072899, 17073560, 17074742, 17067821, 17074614, 17073937, 1707
3529, 17065795, 17073559, 17038130, 17075222, 17073724, 17073506, 17063976, 17074624, 1707414
8, 17064079, 17074858, 17074489, 17072453, 17074783, 17073582, 17073907 ],
  "profiles" : [ "AdmiralAsshat", "danharaj", "evo_9", "rm_-rf_slash", "vimalvnair", "daveFNb
uck", "wyldfire", "gpvos", "senoroink", "mistrial9", "huangyz0918", "ythn", "ProAm", "aerovis
tae", "mosconaut", "blindwatchmaker", "lucideer", "razer6", "corv", "lbenes", "Jerry2", "debt
", "carlosrg", "Bartweiss", "Domenic_S", "yarrel", "feintruled", "r3bl", "phigcch" ]
('Status Code', 200)
('Status Code', 200)
```

7. Copy the code below, indent and paste it on line 19 to make a **HEAD** API call:

"req = requests.head('https://hacker-news.firebaseio.com/v0/updates.json?print=pretty')"

8. Delete the # on line 30:

```
import requests

# Item and profile changes in hackernews

# Requests a resource at the requested URL.

# Requests a resource at the requested URL.

# Requests.get('https://hacker-news.firebaseio.com/v0/updates.json?print=pretty')

print (req.text)

print ("Status Code", req.status_code)

# Indicates which techniques are supported.

# Returns which techniques are supported.

# Returns meta information in that given URL.

# Requests.ocde", req.status_code)

# Requests.head('|')

print (req.text)

print ("Status Code", req.status_code)

# Requests a resource at the requested URL.

# Requests a resource at the requested URL.

# hackernewsgetapirequest()

# Indicates which techniques are supported.

# Ackernewsoptionsapirequest()

# Returns meta information in that given URL.

# Returns meta information in that
```

9. Run the Python script to see what meta information is available the HEAD of the URL:

How To Run Example:

• Link: Click Me

• **Install:** Python 3.

• Install: Firefox or Chrome.

• Run: "pip install virtualenv".

• Run: "source venv/bin/activate".

• Run: "pip install -r requirements.txt".

• Run: "python3 hackernewstep2.py".