Build a COVID19 Vaccine Tracker Using Python

As we know the world is facing an unprecedented challenge with communities and economies everywhere affected by the COVID19. So, we are going to do some fun during this time by tracking their vaccine. Let's see a simple Python script to improve for tracking the COVID19 vaccine.

Modules Needed

- **bs4**: Beautiful Soup(bs4) is a Python library for pulling data out of HTML and XML files. This module does not comes built-in with Python. To install this type the below command in the terminal.

```
pip install bs4
```

- **requests**: Requests allows you to send HTTP/1.1 requests extremely easily. This module also does not comes built-in with Python. To install this type the below command in the terminal.

```
pip install requests
```

Approach:

- Extract data form given URL

- Scrape the data with the help of requests and Beautiful Soup
- Convert that data into html code.
- Find the required details and filter them.

Let's see the stepwise execution of the script

Step 1: Import all dependence

Python3

```
import requests
from bs4 import BeautifulSoup
```

Step 2: Create a URL get function

Python3

```
def getdata(url):
    r = requests.get(url)
    return r.text
```

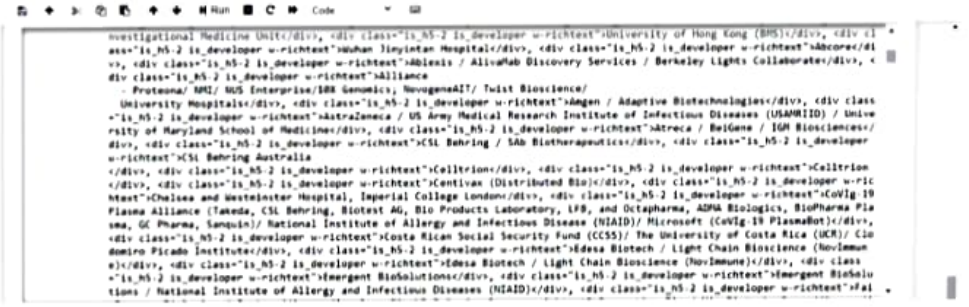
Step 3: Now pass the URL into the getdata function and Convert that data into HTML code

Python3

```
htmldata = getdata("https://covid
```

```
res = soup.find_all("div", class_=
print(str(res))
```

Output:



Note: *These scripts will give you only Raw data in String format you have to print your data with your needs.*

Complete code:

Python3

```
import requests
from bs4 import BeautifulSoup


def getdata(url):
    r = requests.get(url)
    return r.text
```

```
htmldata = getdata("https://covid
soup = BeautifulSoup(htmldata, 'h
result = str(soup.find_all("div",

print("NO 1 " + result[46:86])
print("NO 2 "+result[139:226])
print("NO 3 "+result[279:305])
print("NO 4 "+result[358:375])
print("NO 5 "+result[428:509])
```

Output:

```
NO 1 Alexion Pharmaceuticals. TACTIC-R trial
NO 2 Assistance Publique - Hopitaux de Paris (Phase II); Alexion (Expanded Access Protocols)
NO 3 AstraZeneca; ACCORD trial
NO 4 BioCon/ Equilium
NO 5 Celltrion/ University of Oxford/ University Hospitals Birmingham (CATALYST trial)
```