

mainly 2 way to extract data from website,

(i) API

(ii) Access html page info, is called webscraping (or) web harvesting

understanding,

- * import requests library
- * Then Specify url of the web want to scrap
- * Send HTTP request to the Specified URL and Save response.
- * Now print r.content to get raw html Content . It is of 'string' type.

beautifulsoup web scrape.

```
import requests  
from bs4 import BeautifulSoup  
web_url = "link of the site"  
response = requests.get(url=web_url)  
data = response.text  
soup = BeautifulSoup(data, 'html.parser')  
print(soup) (or) print(soup.prettify)
```

find() method

```
find-Syntax = soup.find("widget name", {"id":  
    "id name of widget in which you want  
    to edit"}).get_text()
```

instead of using html.parser also can
use htmlslip

→ need to change a request as a text
(or) content.

(2.9) response.text (or) response.content

It will print the pages html content.

find-all() method.

find all tags which specified tag name (or)

Syntax

```
for word in soup.find_all('id'):  
    find-all-Syntax = word.get_text()  
    print(find-all-Syntax)
```

```
from selenium import webdriver  
from selenium.webdriver.chrome.service import Service  
serv_obj = Service("path to chrome driver")  
driver = webdriver.Chrome(service=serv_obj)  
driver.get(url="url of the page link")
```

} importing basic

1) Find_element , 2) Find_elements

from selenium.webdriver.common.by import By → import this before finding elements

```
find_element(By.ID, "id")  
" (By.NAME, "name")  
" (By.XPATH, "xpath")  
" (By.LINK-TEXT, "link text")  
" (By.PARTIAL-LINK-TEXT, "partial link text")  
" (By.TAG-NAME, "tag name")  
" (By.CLASS-NAME, "class name")  
" (By.CSS-SELECTOR, "css selector")
```

'By' class is used to specify which attribute is used to locate elements.

54) Flask (One of the best framework).

```
from flask import Flask  
app = Flask(__name__)  
@app.route('/') → decorative fun.  
def home():  
    return 'helloworld'  
if __name__ == '__main__':  
    app.run(debug=True) → run the flask in  
                           debug mode.
```

installation in terminal,

```
pip install Flask → $env:FLASK_APP="hello.py." → flask run.  
                           ↓  
                           filename
```

using jinja template in flask.

```
from flask import Flask, render_template.
```

```
def  
@app.route('/')  
def home():  
    return render_template('index.html')
```

basic syntax.

return hello world in browser.

instead of printing the text link the html file using jinja.

flask (one of the first few frameworks).

```

@app.route('/blog/')
def get_blog(num):
    result = response.json()
    return render_template('blog.html', blogs=result)

```

→ passing variable (< >) if want to change the type
 <int:num> use like this.

can't pass directly, use the variable name and pass the value.

→ pass the fun varai... to the page.

(e.g.) html used flask.

```

<body>
    {% for blog in blogs %}
        {% if blog['id'] == 2 %}
            <h1>{{ blog['title'] }}</h1>
            <h2>{{ blog['subtitle'] }}</h2>
        {% endif %}
    {% endfor %}
</body>

```

→ use the (blogs) name into the html file for showing the result.

{% ... %} → open and close like this in every condition.

if we use 'for' loop condition, in end use {% endfor %}

'if condition' in end use {% endif %}

the variable name use {{ }} this to wrap the variable.

all above a route is a different pages. we don't have a link in index page to redirecting to /blog route.

> click

in index.html specify like this to get a /blog route. also put the variable

```
<div class = "row">  
  <div class = "col">.col </div>  
  <div class = "col">.col </div>  
  <div class = "col">.col </div>  
</div>
```

↑ specify style background color.

three equal column.

-col	-col	-col
------	------	------

```
<div class = "row">  
  <div class = "col-sm-3">.col-sm-3 </div>  
  "  
  "  
  "
```

The result is

--	--	--	--

```
<div class = "row">  
  <div class = "col-sm-4">.col-sm-4 </div>  
  <div class = "col-sm-8">.col-sm-8 </div>  
</div>
```

two unequal responsive columns.

.col-sm-4	.col-sm-8
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go and do practice only seeing the code not gonna be work at all.
go write it your own creativity

{910 0/22 "mom"}

Containers.

Container → make content full width not take full width.

```
<div style="background-color: red;" class="container">  
  <h1> hello </h1>  
</div>
```

instead of the if we use Container-fluid
the result is

Container-fluid → take 100% of the width.

hello.

color will be red.

hello

(Take the full width of the page.)

carousel : → Slideshow for cycling through elements.