

### What is Web Scraping?

Web scraping is a technique to access and extract information from a website.

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### Why Web Scraping?

- Collect data that is not available through an API
- Automate the process of collecting data (Save time and effort)
- Collect data that is updated dynamically

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#### Is Web Scraping Legal?

- \* Web scraping is legal as long as you're not violating the website terms of service
- \* If the website doesn't have a terms of service, you should be fine (web scraping consumes server resources for the host website)

### The Components of a Web Page

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* HTML: The markup language that defines the structure of a web page.

* CSS: The language that defines the style of a web page.

* JavaScript: The language that defines the behavior of a web page.
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#### HTML Tree Structure

#### CSS Classes and IDs

- \* CSS classes and IDs are used to identify specific elements on a web page.
- \* CSS classes are used to identify multiple elements on a web page.
- \* CSS IDs are used to identify a single element on a web page.
- Class:

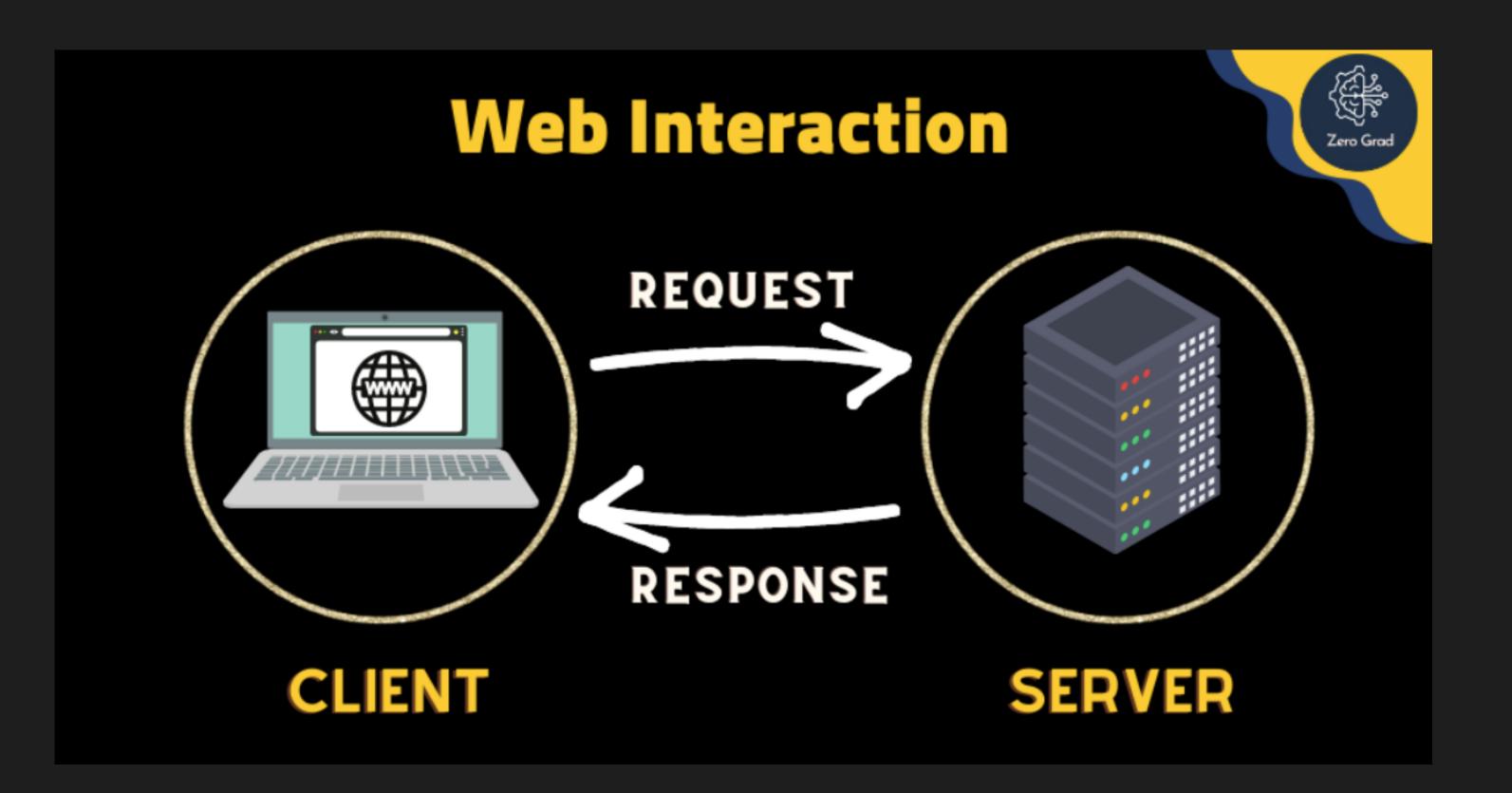
```
 Paragraph 1 
<h2 class="class1"> Heading 2 </h2>
```

• ID:

```
Paragraph 1
```



#### How Does Web Scraping Work?



\* We're essentially doing the same thing a web browser does — sending a server request with a specific URL and asking the server to return the code for that page.



#### Actual vs. Visual Response ▼ <div class="css-laomuu"> == \$0 ▼ <h2 class="css-m604qf"> <a target="\_blank" rel="noreferrer" class="css-o171kl" href="/jobs/p/63GD</pre> VXe1mip9-Machine-Learning-Engineer-Edentech-Giza-Egypt?o=2&l=sp&t=sj&a=ma chine learning|search-v3|hpb">Machine Learning Engineer</a> </h2> RESPONSE ▼ <div class="css-d7j1kk"> <a href="https://wuzzuf.net/jobs/careers/Edentech-Egypt-78060" target="\_b</pre> lank" rel="noreferrer" class="css-17s97q8">Edentech -</a> ▶ <span class="css-5wys0k">...</span> <div class="css-do6t5g">...</div> </div> </div> Machine Learning Engineer EDEN Edentech - Dokki, Giza, Egypt **BROWSER** 1 month ago Full Time Experienced · 3 - 7 Yrs of Exp · IT/Software Development · Engineering - Telecom/Technology · Computer Engineering· Engineering· Computer Science· Information Technology (IT) · Machine Learning· SQL

- \* But unlike a web browser, our web scraping code won't interpret the page's source code and display the page visually.
- \* We write a code that sends a request to the server that's hosting the page we specified.
- \* The server will return the source code HTML— for the page
- \* We can then parse the HTML to extract the data we want.

### Contact Us

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