

Interview Questions

1. What is a GET request?

A **GET request** is an HTTP method used to **retrieve data** from a server. It requests information without making any changes to the server's data.

2. How do you install external packages in Python?

You can install packages using **pip** (Python's package manager):

```
pip install package_name
```

Example:

```
pip install requests
```

3. What is a User-Agent in HTTP?

A **User-Agent** is a string that identifies the browser, device, or software making the HTTP request. It helps servers tailor responses based on the client type.

4. What is soup.find_all() used for?

In **BeautifulSoup**, `find_all()` is used to **find all occurrences** of a specific HTML tag or element.

Example:

```
soup.find_all('h2')
```

→ Finds all <h2> tags in the webpage.

5. What are the risks of web scraping?

- Legal or ethical issues (violating website terms of service)
 - Getting IP blocked for too many requests
 - Data inaccuracies if website structure changes
 - Heavy load on website servers
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6. What's the difference between id and class in HTML?

- `id` → Unique identifier for a single HTML element (`#idname`)
- `class` → Can be shared by multiple elements (`.classname`)

Example:

```
<p id="intro">Hello</p>
```

```
<p class="text">World</p>
```

7. What is an HTML tag?

An **HTML tag** defines the structure and content of a webpage element.

Example: `<h1>Title</h1>` — here `<h1>` is a tag for a heading.

8. What does `.text` return in BeautifulSoup?

`.text` returns **all the visible text** inside an HTML tag, removing all HTML tags and markup.

Example:

```
soup.find('h1').text
```

→ Returns just the text inside the `<h1>` tag.

9. What is a try-except block?

A **try-except** block handles **errors (exceptions)** in Python.

Example:

```
try:
```

```
    print(10 / 0)
```

```
except ZeroDivisionError:
```

```
    print("Cannot divide by zero")
```

10. What are HTTP status codes?

HTTP status codes are **3-digit responses** from a server that indicate the result of a request:

- **200** – OK (success)
- **404** – Not Found
- **500** – Server Error
- **403** – Forbidden
- **301** – Moved Permanently