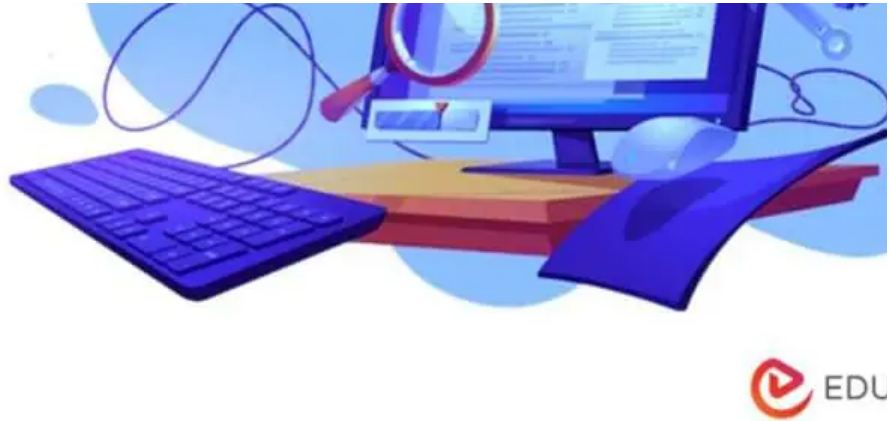


Introduction to Scraper JavaScript

The following article provides an outline for Scraper JavaScript. A highly helpful method gathering data from the Internet for presentation or analysis is web scraping using JavaScript. Data extraction from a website and input into a spreadsheet is data scraping tasks in javascript. The technique effectively allows a dedicated data scraper to gather plenty of data for analysis, processing, or presentation. Data scraping is obtaining data a website and inserting data into a spreadsheet. The technique effectively allows a dedicated data scraper to gather plenty of data for analysis, processing, or presentation.

Scraper JavaScript





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What is Scraper JavaScript?

An automated process called web scraping is utilized to collect data from websites. Obtaining product pricing and evaluating them against other e-Commerce sites is the feature of a scraper. Creating a search engine similar to Google, Yahoo, and the list continues.

Web scraping has more uses than you might realize. You can do whatever you want with the data after you learn how to extract it from websites.

A web scraper is a program that collects data from websites. You're going to learn how to create JavaScript web scrapers.

Web scraping primarily consists of two components:



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- Utilizing request libraries and a headless browser to obtain data.
- Analyzing the data to derive the precise information we need.

Why Use Scraper JavaScript?

- One of the most popular and simple-to-learn programming languages on the Internet is JavaScript.
- It enables website designers to incorporate sophisticated elements like dynamic content, scrolling video jukeboxes, interactive maps, etc.
- JavaScript is most likely used whenever a website acts other than simply displaying static data.
- In the following part, we will see creating your own Node.js web scraper application.
- This JavaScript runtime environment is cross-platform and quick, making it ideal for servers and desktop apps.
- It is well-liked because it makes it simple for users to create and run network applications.

How to Build a Web Scraper in JavaScript?

I assume Node is already set up; if not, see the NodeJS installation instructions.

Cheerio and node-fetch are JavaScript packages that will be used for web scraping.



Let's configure the project using npm to use a third-party package.



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- To start the project, type `npm init` into your terminal.
- In accordance with your preferences, respond to each question.
- Use the `npm install node-fetch` command to install the packages from now on.

Let's have a look at the installed packages:

1. node-fetch

The `window.fetch` is added to the node js environment by the package `node-fetch`. It is beneficial to send HTTP queries and obtain the raw data.

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2. cheerio

The Cheerio package parses the raw data and retrieves the required information. Cheerio and `node-fetch` are two JavaScript packages that work well for web scraping. Not even that the packages offer will be shown to us. The web scraping process and the most effective techniques will be demonstrated.



How to Create Web Scraper JavaScript?



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- Chrome or any other browser.
- VSCode or some other code editor.
- Npm and Node. Using one of the official Node.js source installers to install Node, and NPM is the simplest method. When Node.js has been successfully installed, you can check that everything went according to plan by running `node -v` and `npm -v` in a new terminal window.
- Create a new folder for this project, launch a fresh terminal session, go to the new folder, and implement `npm init -y` there.
- In the newly created folder, run `npm install axios`.
- Run `npm install cheerio` in the project's folder as you did before.

Please remember that things might be a little more complicated and that the tools I've picked for this guide might not work if you've decided to scrape a Single Page Application.

1. Select the page you wish to scrape

First, use Chrome or another web browser to view the page you wish to scrape. You must comprehend the layout of the website to correctly scrape the data.

2. Examine the website's source code



After you've logged in, try to envision what a typical user might do. By clicking on the home page, you may read the comments, rate a post positively or negatively, or



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3. Form the code

Let's create a new file called index.js, then type or simply copy the lines below:

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Code:

```
const axios=require("axios");
const cheerio=require("cheerio");
const fetchTitles=async() => {
  trv {
```



```
const title_names = [],
$('div > p. title_names> a').each((_idx, el) => {
  const title_name = $(el).text()
  title_names.push(title_name)
});
return title_names;
} catch (error) {
  throw error;
}};
fetchTitles().then((title_names) => console.log(title_names));
```

4. Run the program/code

Simply enter node index.js in the terminal to launch it. You ought to see an array with all post titles in it.

5. Keep the data you've extracted

You need to put the scraped data in a CSV file, a new database, or just a plain old array depending on your plan to use.

Importance of Scraper JavaScript

- Because JS is much faster than other languages, more pages can be stored in a short time.
- **Not resource-intensive:** JS scraping uses few resources and can be run in the background.
- **Multiple environments:** JS can be utilized as a fully functional server for page scraping using Node.js and it may be used as a simple automation script right from the console of your browser.





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market, such as names, job titles, email addresses, and telephone numbers.

Conclusion

A highly helpful method for gathering data from the Internet for presentation or analysis using web scraping using JavaScript.

Recommended Articles

This is a guide to Scraper JavaScript. Here we discuss the introduction, use, and how to create web scraper JavaScript. You may also have a look at the following articles to learn more –

1. [JavaScript RegEx Test \(https://www.educba.com/javascript-regex-test/\)](https://www.educba.com/javascript-regex-test/)
2. [WebGL JavaScript \(https://www.educba.com/webgl-javascript/\)](https://www.educba.com/webgl-javascript/)
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