

Documentation - WebScrapper

Application Overview

This web application provides an interface for users to scrape articles from a given website. Post scraping, users can filter, search, and download the articles.

API Endpoints

1. POST /scrape

Description: Scrapes articles from a provided URL.

Request Body:

```
const url = formData.get('url');
```

Response:

Returns a list of articles with the following structure:

```
[
  {
    "date": "September 16, 2023",
    "title": "The Joys of Gardening",
    "short_description": "Explore the enriching world of gardening and discover its positive impact on mood and well-being.",
    "author": "Alex Green",
    "author_profession": "Gardening Enthusiast",
    "linkURL": "https://wsa-test.vercel.app/blog/the-joys-of-gardening",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fgarden.8d6b6c5f.webp&w=3840&q=75",
    "sentiment": "Positive",
    "type_of_article": "Lifestyle",
    "wordCount": 381,
    "textFromSecondPage": "The Joys of Gardening Discover the Blissful Moments in Gardening Gardening is indeed a joyful and rewarding hobby. It is not just an activity but
  },
  {
    "date": "September 15, 2023",
    "title": "The Challenges of Urban Living",
    "short_description": "A candid look at the challenges of urban living, with insights into coping strategies.",
    "author": "Jamie Urbanite",
    "author_profession": "City Life Blogger",
    "linkURL": "https://wsa-test.vercel.app/blog/the-challenges-of-urban-living",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Furban.b1d13747.webp&w=3840&q=75",
    "sentiment": "Negative",
    "type_of_article": "Urban Life",
    "wordCount": 247,
    "textFromSecondPage": "The Challenges of Urban Living Navigating the Urban Jungle Living in a bustling city comes with its own set of challenges. The continuous hustle
  },
  {
    "date": "September 14, 2023",
    "title": "The Radiant Days of Summer",
    "short_description": "Dive into the vibrant and joyful moments that the summer season brings to our lives.",
    "author": "Sunny Ray",
    "author_profession": "Seasonal Blogger",
    "linkURL": "https://wsa-test.vercel.app/blog/the-radiant-days-of-summer",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fsummer.8f9285fa.webp&w=3840&q=75",
    "sentiment": "Positive",
    "type_of_article": "Seasons",
    "wordCount": 251,
    "textFromSecondPage": "The Radiant Days of Summer Embracing the Golden Rays Summer is a season full of vibrant and joyful moments. It is the time of year where everyth
  },
  {
    "date": "September 13, 2023",
    "title": "The Quiet Beauty of Autumn",
    "short_description": "Discover the serene and picturesque landscapes of autumn, and how they inspire creativity and reflection.",
    "author": "Evelyn Woods",
    "author_profession": "Nature Photographer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-quiet-beauty-of-autumn",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fautumn.4e1b1c3d.webp&w=3840&q=75",
    "sentiment": "Positive",
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    "wordCount": 268,
    "textFromSecondPage": "The Quiet Beauty of Autumn Embracing the Warm Hues Autumn is a season of quiet beauty and reflection. The crisp air and vibrant foliage create a magical atmosphere that
  },
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    "date": "September 12, 2023",
    "title": "The Art of Minimalism",
    "short_description": "Explore the philosophy of minimalism and how it can lead to a more clutter-free and meaningful life.",
    "author": "Oliver Stone",
    "author_profession": "Interior Designer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-art-of-minimalism",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fminimalism.9a2b3c4d.webp&w=3840&q=75",
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    "wordCount": 275,
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  {
    "date": "September 11, 2023",
    "title": "The Thrills of Travel",
    "short_description": "Discover the excitement of exploring new cultures, cuisines, and landscapes around the world.",
    "author": "Sophia Wanderer",
    "author_profession": "Travel Blogger",
    "linkURL": "https://wsa-test.vercel.app/blog/the-thrills-of-travel",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Ftravel.5e6f7g8h.webp&w=3840&q=75",
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    "author": "Liam Harmon",
    "author_profession": "Music Producer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-power-of-music",
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    "date": "September 9, 2023",
    "title": "The Beauty of the Ocean",
    "short_description": "Discover the awe-inspiring beauty and vastness of the world's oceans.",
    "author": "Mia Blue",
    "author_profession": "Marine Biologist",
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    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Focean.5m6n7o8p.webp&w=3840&q=75",
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  },
  {
    "date": "September 8, 2023",
    "title": "The Joy of Reading",
    "short_description": "Explore the timeless pleasure of getting lost in a good book.",
    "author": "Noah Pages",
    "author_profession": "Book Reviewer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-joy-of-reading",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Freading.9q0r1s2t.webp&w=3840&q=75",
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  },
  {
    "date": "September 7, 2023",
    "title": "The Magic of the Moon",
    "short_description": "Discover the mystical and enchanting allure of the moon and its phases.",
    "author": "Aria Starlight",
    "author_profession": "Astrophysicist",
    "linkURL": "https://wsa-test.vercel.app/blog/the-magic-of-the-moon",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fmoon.3u4v5w6x.webp&w=3840&q=75",
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    "wordCount": 312,
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  },
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    "date": "September 6, 2023",
    "title": "The Power of Community",
    "short_description": "Explore the strength and support that can be found in a tight-knit community.",
    "author": "Leo Unity",
    "author_profession": "Community Organizer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-power-of-community",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fcommunity.7y8z9a0b.webp&w=3840&q=75",
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  },
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    "date": "September 5, 2023",
    "title": "The Beauty of the Mountains",
    "short_description": "Discover the breathtaking views and serene atmosphere of mountain landscapes.",
    "author": "Ivy Peaks",
    "author_profession": "Hiking Enthusiast",
    "linkURL": "https://wsa-test.vercel.app/blog/the-beauty-of-the-mountains",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fmountains.1c2d3e4f.webp&w=3840&q=75",
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    "author": "Ethan Green",
    "author_profession": "Gardener",
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    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fgardening.5g6h7i8j.webp&w=3840&q=75",
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  },
  {
    "date": "September 3, 2023",
    "title": "The Thrills of Adventure",
    "short_description": "Discover the excitement and challenges of outdoor adventures and exploration.",
    "author": "Mia Explorer",
    "author_profession": "Adventure Traveler",
    "linkURL": "https://wsa-test.vercel.app/blog/the-thrills-of-adventure",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fadventure.9k0l1m2n.webp&w=3840&q=75",
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  },
  {
    "date": "September 2, 2023",
    "title": "The Power of Art",
    "short_description": "Explore the creative expression and emotional impact of various art forms.",
    "author": "Leo Canvas",
    "author_profession": "Artist",
    "linkURL": "https://wsa-test.vercel.app/blog/the-power-of-art",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fart.3o4p5q6r.webp&w=3840&q=75",
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    "date": "September 1, 2023",
    "title": "The Beauty of the Stars",
    "short_description": "Discover the awe-inspiring beauty and vastness of the night sky.",
    "author": "Aria Cosmos",
    "author_profession": "Astronomer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-beauty-of-the-stars",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fstars.7s8t9u0v.webp&w=3840&q=75",
    "sentiment": "Positive",
    "type_of_article": "Science",
    "wordCount": 358,
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    "date": "August 31, 2023",
    "title": "The Joy of Learning",
    "short_description": "Explore the satisfaction and growth that come from acquiring new knowledge and skills.",
    "author": "Noah Wisdom",
    "author_profession": "Educator",
    "linkURL": "https://wsa-test.vercel.app/blog/the-joy-of-learning",
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  },
  {
    "date": "August 30, 2023",
    "title": "The Thrills of Sports",
    "short_description": "Discover the excitement and competitive spirit of various sports and games.",
    "author": "Mia Victory",
    "author_profession": "Sports Enthusiast",
    "linkURL": "https://wsa-test.vercel.app/blog/the-thrills-of-sports",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fsports.5a6b7c8d.webp&w=3840&q=75",
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    "wordCount": 372,
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    "date": "August 29, 2023",
    "title": "The Power of Music",
    "short_description": "Explore the profound impact of music on our emotions, thoughts, and lives.",
    "author": "Leo Harmon",
    "author_profession": "Music Producer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-power-of-music",
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    "wordCount": 380,
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  {
    "date": "August 28, 2023",
    "title": "The Beauty of the Ocean",
    "short_description": "Discover the awe-inspiring beauty and vastness of the world's oceans.",
    "author": "Mia Blue",
    "author_profession": "Marine Biologist",
    "linkURL": "https://wsa-test.vercel.app/blog/the-beauty-of-the-ocean",
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    "date": "August 27, 2023",
    "title": "The Joy of Gardening",
    "short_description": "Explore the satisfaction and beauty of growing your own plants and flowers.",
    "author": "Ethan Green",
    "author_profession": "Gardener",
    "linkURL": "https://wsa-test.vercel.app/blog/the-joy-of-gardening",
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    "date": "August 26, 2023",
    "title": "The Thrills of Adventure",
    "short_description": "Discover the excitement and challenges of outdoor adventures and exploration.",
    "author": "Mia Explorer",
    "author_profession": "Adventure Traveler",
    "linkURL": "https://wsa-test.vercel.app/blog/the-thrills-of-adventure",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Fadventure.1q2r3s4t.webp&w=3840&q=75",
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  {
    "date": "August 25, 2023",
    "title": "The Power of Art",
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    "author": "Leo Canvas",
    "author_profession": "Artist",
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  {
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    "title": "The Beauty of the Stars",
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    "author": "Aria Cosmos",
    "author_profession": "Astronomer",
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  },
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    "title": "The Joy of Learning",
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    "author": "Noah Wisdom",
    "author_profession": "Educator",
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    "date": "August 22, 2023",
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    "short_description": "Discover the excitement and competitive spirit of various sports and games.",
    "author": "Mia Victory",
    "author_profession": "Sports Enthusiast",
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  {
    "date": "August 21, 2023",
    "title": "The Power of Music",
    "short_description": "Explore the profound impact of music on our emotions, thoughts, and lives.",
    "author": "Leo Harmon",
    "author_profession": "Music Producer",
    "linkURL": "https://wsa-test.vercel.app/blog/the-power-of-music",
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    "date": "August 20, 2023",
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    "short_description": "Discover the awe-inspiring beauty and vastness of the world's oceans.",
    "author": "Mia Blue",
    "author_profession": "Marine Biologist",
    "linkURL": "https://wsa-test.vercel.app/blog/the-beauty-of-the-ocean",
    "imgURL": "https://wsa-test.vercel.app/_next/image?url=%2F_next%2Fstatic%2Fmedia%2Focean.5o6p7q8r.webp&w=3840&q=75",
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    "date": "August 19, 2023",
    "title": "The Joy of Gardening",
    "short_description": "Explore the satisfaction and beauty of growing your own plants and flowers.",
    "author": "Ethan Green",
    "author_profession": "Gardener",
    "linkURL": "https://wsa-test.vercel.app/blog/the-joy-of-gardening",
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  },
  {
    "date": "August 18, 2023",
    "title": "The Thrills of Adventure",
    "short_description": "Discover the excitement and challenges of outdoor adventures and exploration.",
    "author": "Mia Explorer",
    "author_profession": "Adventure Traveler",
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2. GET /download

Description: Allows users to download the scraped articles in JSON format.

Response: A .txt file containing the articles in JSON format.

Frontend Interface

The main UI consists of:

- An input field for the URL to scrape.
- A button to start scraping.
- Information about the articles in the blog
- A search field to filter articles based on keywords.
- A dropdown filter to select articles based on sentiment.
- A download button to get articles in JSON format.

Explanation

Choices:

Puppeteer & Cheerio: I chose these libraries because they provide a combination of real browser navigation (via Puppeteer) and DOM working capabilities (via Cheerio). This allows to effectively scrape and parse web pages.

Tailwind CSS: I chose this utility-first CSS framework for rapid interface design and also to work with something that I haven't before in order to step out of my comfort zone. It's flexible and allows for easy customization without leaving the HTML.

Standout Features:

Sentiment Analysis: The main text of each article is scanned with my sentiment analysis algorithm, categorizing them into Positive, Neutral, or Negative sentiments. It's a simple algorithm in order to follow the projects requirements however with some touchups like a vaster word base it could be a fast way to get the general sentiment of an article without analyzing the context.

Article Word Count: Alongside the basic details, the application also provides word count statistics for each article giving us an idea of the length of the article.

Search bar: Implemented a search bar in order for a user-friendly and quick way for users to find desired information from an article faster.

Sentiment filter: Implemented a filter for the user to filter out the sentiments and search for specific sentiment in articles.

Download JSON: A button to quickly get all the scrapped data in a JSON format directly in a file without issues.

Learning Experience:

Complexity of Web Scrapping: The scrapping part was a difficult process at the beginning . I had to think of a very general way of getting all the data . Firstly I tough of getting the articles by their position on the website but then I checked and saw that the website is responsive so that wouldn't work. Then I decided to get all the data needed from the <time> selector. Since on the website the time selector was used only once each time for each article I searched for that and then I got the other data that I needed in correlation with the <time> selector. For a bigger project I would think that first we could scan the page for its structure and then with AI(or a more general approach) get the data from each article we need . We could set some models for our data (for example we could now that the time of something is usually in a specific format or that the Title usually is bigger than the rest of the data on the page)

Performance Concerns: While Puppeteer gives me a real browser environment, it can be resource-intensive. However for this project was the right choice (I don't think I would use this in a bigger project like yours) . Another thing was that sometimes puppeteer didn't get the page ok , and I found out that it didn't have enough time to get the page so I just added a timeout of half a second to make sure it has enough time. The same applies to the second time I had to access the link of each article to get the individual page of each article to get the entire content (added a timeout of 2 second there)

Sentiment analysis : The main issue was how would I design this algorithm . I didn't really find a better way than just comparing each word of the content of the article with some positive and negative words provided by myself and then make a score for this. Another issue that I had to fix later was that in the neutral observation on modern art Article , there are the same number of positive words as negative but the word :bad has a “;” right after it , and when my first version of my algorithm checked on this didn't find it well and returned that the article was positive . After this I modified the preprocess so that I get only letters in words and nothing else. And now it works fine ! 😊

DOM: Working with DOM and finding the structure of each article was an interesting process 😊. Also another issue was that I wanted to get only the content of the individual page and when I accessed that

firstly I got as words the type of article and the 'Back to Articles' so I had to modify that so that it didn't count as words or in the sentiment analysis.

Tailwind CSS: Finding the right class for each div , selector , input , span and , p was a real challenge however there were some useful videos on Youtube for that. (Getting everything to be well placed in the page and the page to be responsive was also a big deal)

The other implementations weren't something that I had difficulties in.

Improvements

What I could see improved or added:

Additional Filters:

- Date Range: Allow users to filter articles based on a specific date range.
- Author: Allow filtering by the author's name.

Database Integration:

- Save Articles: Instead of saving articles to a file, I would consider using a database to store them, allowing more complex queries and persistent storage.
- User Accounts: With a database, I could also introduce user accounts where users can save favorite articles, set preferences, etc...

Performance and Scalability:

- Caching: I would implement caching to avoid scraping the same site repeatedly within a short period, reducing the load on both your server and the target website.