

Lab Assignment

Using public/free API

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Course: Software Engineering Lab

Sec: A

API used: <https://developer.nytimes.com/docs/articlesearch-product/1/overview> (Article search API)

Tools used: HTML, Bootstrap and PHP

I have used the Article search API to fetch and display results in my html page.

I named the webpage Artipulate. There is mainly 1 feature that uses the API to search a particular keyword and display results according to it

The display section is divided into 3 columns:

- a) Headline
- b) Snippet
- c) Published date

Artipulate

Search:

fire

Search

Headline	Snippet	Publication Date
A Tale of Fire and Ice	New York's first female fire commissioner faces down a revolt from the old guard.	2023-04-08T13:00:14+0000
Fire With Toxic Fumes Could Burn for Days in Indiana, Officials Warn	Residents within a half-mile radius of a plastics recycling plant in Richmond, Ind., were ordered to evacuate after the fire broke out on the 14-acre property on Tuesday.	2023-04-12T16:49:09+0000
Fire at Georgia Plastics Plant Prompts Evacuation Order	The fire at the Pinova plant in Brunswick broke out early on Saturday morning. No injuries have been reported.	2023-04-15T23:56:25+0000
Industrial Fire Spreads Toxic Smoke in Eastern Indiana	Officials believe the fire started after a semitrailer caught on fire near a plastics recycling plant.	2023-04-12T20:28:19+0000
Two Young People Killed in E-Bike Fire in Queens	The bike's battery was being charged near the front door of the apartment building when the blaze ignited and quickly spread.	2023-04-11T00:26:22+0000
About 18,000 Cattle Are Killed in Fire at Dairy Farm in Texas	One employee was left in critical condition after an explosion and blaze in Dimmitt, Texas, officials said. A thick plume of smoke mushroomed over the plains.	2023-04-14T00:57:45+0000
Shelter-in-Place Order Lifted in Tacoma, Wash., Area Days After Vessel Fire	A fishing boat carrying fuel and Freon caught fire on Saturday, raising concerns about smoky conditions in nearby cities.	2023-04-10T17:43:04+0000
Forest Fire Breaks Out on a Mountain in Central Seoul	Dozens of nearby homes were evacuated as firefighters hurried to contain the blaze on one of Seoul's most popular hiking sites.	2023-04-02T08:39:04+0000
Ferry Catches Fire in the Philippines	The blaze on the passenger ferry, at sea near the southern province of Basilan, killed more than two dozen people.	2023-03-30T09:29:49+0000
U.S. Recalls 53,000 Hoverboards After Reports of Fires	Examples include the hoverboard burning, sparking or melting. A fire marshal said one hoverboard was the "point of origin" of a fire that killed two girls in Pennsylvania last year.	2023-03-31T19:23:47+0000

The URL that I tested is

<https://api.nytimes.com/svc/search/v2/articlesearch.json>.

This is a GET method which fetches all the articles related to the keyword that is searched.

a. The JSON format of the Request body.

Since the request is a straightforward GET request with query parameters appended to the URL, there is no need for a Request body in this code.

b. The format of the Response body.

The response of the body is json which is then converted into html and the data is displayed in the webpage. The response body contains an array of documents, and each document has properties such as headline, snippet, and publication date.

c. The meaning/purpose of the received information.

The collected data is used to give the user access to the search results in a table format. The code analyzes the JSON response and extracts the pertinent data, including the article's title, snippet, and date of publication. Then it updates the table by adding each article's data as a new entry. The user may now browse and navigate the search results with ease.