

Your news

# IDEA DESCRIPTION

In the time of overwhelming amounts of information you will probably need to move with times and be aware of the most important changes and events which society faces. But mass media now are often lag behind, some duplicate or replicate information, others just cannot cover everything you are interested in. Also, reading a lot of separate news sources is often tiring and takes too much time.

My suggestion is to create a web-site, which will contain the most top-rated news only from the reliable sources. The initial version will use News API ([newsapi.org](https://newsapi.org)) for extracting articles from over 5,000 large and small news sources and blogs, which include breaking news as well as lesser articles. The web-site will have powerful sorting mechanisms to personalize news.

Sorting will be realized according to such keys: country of origin, category(e.g. business, entertainment, general),sources, keywords or phrases to look for, language.

In perspective, it is possible to use APIs of social media, such as Twitter, Facebook, Reddit to include not only 'professional' media but also news from ordinary users, who are often in the cutting edge. These posts would be able to search by hash-tags and usernames. Top of events discussed in social media will also be automatically generated.

# API DESCRIPTION

The main API that I will use is News API ([newsapi.org](https://newsapi.org))

Using this API:

It is possible to search for articles with such criteria:

Keyword or phrase

Date published

Source name

Source domain name

Language

Results can be sorted by:

Date published

Relevancy to search keyword

Popularity of source

Endpoints:

Top headlines - returns breaking news headlines for a country and category.

Everything - search through millions of articles from over 5,000 large and small news sources and blogs

# API EXAMPLE

In the module `API-trial.py` realized the viable API capacities.

At first, `NewsApiClient` is imported from the `newsapi` and initialized by my unique API key.

Sample functions `get_headlines()`, `get_all_articles()` and `sources()` are created to show the basic capacities of `newsapi`.

`get_headlines()` function uses top headlines endpoint. It is specified with parameters `q`(keyword phrase) and `language`. At the day of executing I have found 7 top headlines about bitcoin(default value). Besides that I received an information about status of request, name and id of source, author, title, url and date of publishing for each article.

`get_all_articles()` function returns all articles by the given keyword, from the given sources and domains between the given dates. It also has a parameter of `language`, sorting key and the number of pages to be returned. I received an information about status of request, name, description, url and id of source; author, title, url, description and date of publishing for each article.

`sources()` function returns information about the sources(including name, description, category, language, country and url).

# SYSTEM REQUIREMENTS

**Project Sponsor and  
Initiator:**

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Faculty of Applied Sciences, UCU

**Business Need:**

The project has been initiated to improve access to the relevant information, and to eliminate the disadvantages of existing media

**Business Requirements:**

Using the web-app which would be a result of this project user will be able to see relevant news, search for some keywords and specific topics using the variable options of filtration

**Special Issues or  
Constraints:**

The deadline for development is May, 25