

API Documentation

Introduction

A self hosted API for web metadata retrieval, offers the web-scraping functionality when any valid URL is provided. The identified stakeholders are:

- Developers (Who contributes to this open-source project)
- Companies/Developers (Who integrates our service with their product(Web/Mobile App))
- End-users of the system (Everyone who uses our service integrated products.)

This will be a very useful tool for those who are interested in extracting the data and use it for any analysis.

Description

1. Registration :

- Enter Email address
- Password
- Confirm password

(Password should be min 8 characters. Shouldn't match to email address, and cannot be too common. If so, then it will show an error message in red letters.)

The screenshot shows a 'Register' form with three input fields: 'Email address', 'Password', and 'Confirm Password'. Below the 'Password' field, there are three red error messages: 'This password is too short. It must contain at least 8 characters.', 'This password is too common.', and 'This password is entirely numeric.'. A 'Show Password' checkbox is located below the 'Confirm Password' field. A purple 'Proceed' button is at the bottom of the form. Below the button, there is a link: 'Already have an Account? [Login](#)'. At the very bottom, there is a 'Go back to Home' link with a circular arrow icon.

Register

Email address

Password

Confirm Password

☐ Show Password

This password is too short. It must contain at least 8 characters.

This password is too common.

This password is entirely numeric.

Proceed

Already have an Account? [Login](#)

[Go back to Home](#)

Following screen will appear once registration is done successfully.

Account Info
Email: test@test.com
API Key: 34fb8a53-9633-4f84-aa4d-f010c62b853b
Daily Limit: 1000

[Change Password](#)

Logout

2. Consume API

Following are the ways to consume the self-hosted API:

- **API_Key**: captured from the registration screen

Account Info
Email: test@test.com
API Key: 34fb8a53-9633-4f84-aa4d-f010c62b853b
Daily Limit: 1000

[Change Password](#)

Logout

- Valid Web **URL** that is required to scraped
- **Cached**= true/false (optional): It is useful for optimising the access time.

3. Accessing with URL

- ❖ Url to access API Endpoint:

<https://web-metadata.herokuapp.com/api/>

- ❖ Input Parameters for GET Request.:

- ❖ api_key (Enter your valid API key)
- ❖ web_page (Enter a valid website)
- ❖ cached (Enter true/false) (default=true) (optional)

❖ Metadata API Url:

```
https://web-metadata.herokuapp.com/api/?api_key=34fb8a53-9633-4f84-aa4d-f010c62b853b&format=api&web_page=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DXQgXKtPSzUI
```

❖ Success Response:

```
{  
  "web_page": "https://www.youtube.com/watch?v=XQgXKtPSzUI",  
  "title": "Intro to Web Scraping with Python and Beautiful Soup",  
  "description": "Web scraping is a very powerful tool to learn for any data professional. With web scraping the entire internet becomes your database. In this tutorial we sho...",  
  "thumbnail": "https://i.ytimg.com/vi/XQgXKtPSzUI/maxresdefault.jpg"  
}
```

★ *Following is the sample output→ when we have only entered the registered API key and valid URL:*

Django REST frameworktest@test.com

Metadata Api

Metadata Api

OPTIONS GET

GET /api/?api_key=34fb8a53-9633-4f84-aa4d-f010c62b853b&web_page=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DXQgXKtPSzUI

HTTP 200 OK
Allow: GET, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "web_page": "https://www.youtube.com/watch?v=XQgXKtPSzUI",
  "title": "Intro to Web Scraping with Python and Beautiful Soup",
  "description": "Web scraping is a very powerful tool to learn for any data professional. With web scraping the entire internet becomes your database. In this tutorial",
  "thumbnail": "https://i.ytimg.com/vi/XQgXKtPSzUI/maxresdefault.jpg"
}
```

★ *Following is the expected output when we add a parameter: cached = true.
(when you cached=true, it will bring data from the cache.)*

Django REST frameworktest@test.com

Metadata Api

Metadata Api

OPTIONS GET

GET /api/?api_key=34fb8a53-9633-4f84-aa4d-f010c62b853b&web_page=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DXQgXKtPSzUI&cached=true

HTTP 200 OK
Allow: GET, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "web_page": "https://www.youtube.com/watch?v=XQgXKtPSzUI",
  "title": "Intro to Web Scraping with Python and Beautiful Soup",
  "description": "Web scraping is a very powerful tool to learn for any data professional. With web scraping the entire internet becomes your database. In this tutorial",
  "thumbnail": "https://i.ytimg.com/vi/XQgXKtPSzUI/maxresdefault.jpg"
}
```

★ Following is the expected output when we add a parameter: `cached = false`. (when `cached=false`, it will scrape the page irrespective of already existing in the cache)

Django REST framework test@test.com

Metadata Api

Metadata Api

OPTIONS GET

GET /api/?api_key=34fb8a53-9633-4f84-aa4d-f010c62b853b&web_page=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DXQgXKtPSzUI&cached=false

HTTP 200 OK
Allow: GET, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "web_page": "https://www.youtube.com/watch?v=XQgXKtPSzUI",
  "title": "Intro to Web Scraping with Python and Beautiful Soup",
  "description": "Web scraping is a very powerful tool to learn for any data professional. With web scraping the entire internet becomes your database. In this tutorial",
  "thumbnail": "https://i.ytimg.com/vi/XQgXKtPSzUI/maxresdefault.jpg"
}
```

★ Output for another valid URL:

Django REST framework test@test.com

Metadata Api

Metadata Api

OPTIONS GET

GET /api/?api_key=34fb8a53-9633-4f84-aa4d-f010c62b853b&web_page=https://www.youtube.com/watch?v=kyJCzFNRK4s

HTTP 200 OK
Allow: GET, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "web_page": "https://www.youtube.com/watch?v=kyJCzFNRK4s",
  "title": "👑 BEST LOCKDOWN BIRTHDAY SURPRISE! (Gujarati) | P.S. This will MELT YOUR HEART! | Dr. Aayushi & Isha",
  "description": "3rd August, 1969 was when a fairy, an angel, a princess and the Queen of Hearts was born! 🧚👑🎂 Presenting to you the wonder-woman that we're celebrat",
  "thumbnail": "https://i.ytimg.com/vi/kyJCzFNRK4s/maxresdefault.jpg"
}
```

★ Output: For an Invalid URL

web-metadata.herokuapp.com/ × +

Not secure | web-metadata.herokuapp.com/api/?api_key=34fb8a53-9633-4f84-aa4d-f010c62b853b&web_page=https://www.youtubeeeee.com/watch?v=kyJCzFNRK4s

Server Error (500)

❖ **Daily limit:** Every user is provided 1000 as a daily limit of accessing the API.

★ See below, after calling the API Key 4 times, on checking the daily limit: we can see it has been reduced to 996 out of 1000.

Account Info
Email: test@test.com
API Key: 34fb8a53-9633-4f84-aa4d-f010c62b853b
Daily Limit: 996

[Change Password](#)

Logout