### **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:

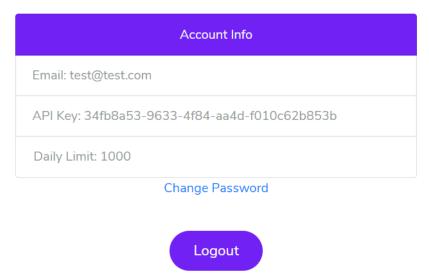
- Enter Email address
- Password
- Confirm password

(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.)

	_
	Email address
	Password
	Confirm Password
Т	Show Password his password is too short. It must contain at east 8 characters.
	his password is too common. his password is entirely numeric.
	Proceed
	Already have an Account? Login

**Ġ** Go back to Home

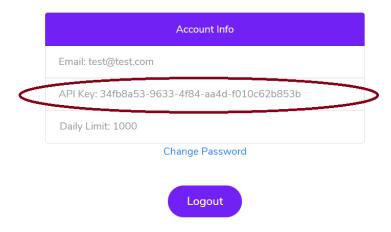
Following screen will appear once registration is done successfully.



#### 2. Consume API

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

• **API\_Key**: captured from the registration screen



- 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:

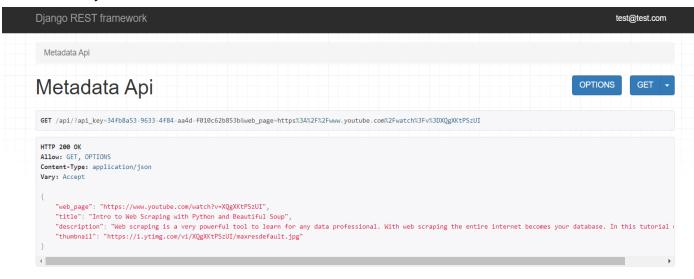
```
{
"web_page": "https://www.youtube.com/watch?v=XQgXKtPSzUI",

"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"
}
```

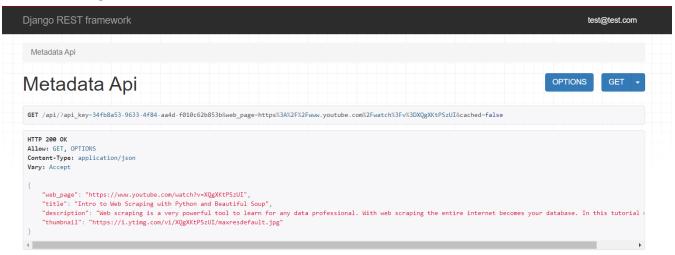
★ Following is the sample output→ when we have only entered the registered API key and valid URL:



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



★ 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)



★ Output for another valid URL:



★ Output: For an Invalid URL



- **❖ 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.

