Research Paper Search Automation using a Google API CS 6463 - Parallel and Distributed Software Systems

Project Documentation

Dependencies:

Google Account

Python Package Manager

Google API package for Python

Steps for Setting up the project:

1- Create a Google account if needed

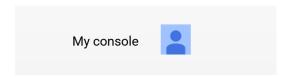
A new Google Account can be created here:

https://accounts.google.com/SignUp?hl=en

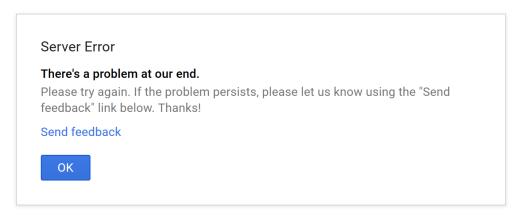
2- Create a custom search project in the Google cloud platform:

Go to https://cloud.google.com/

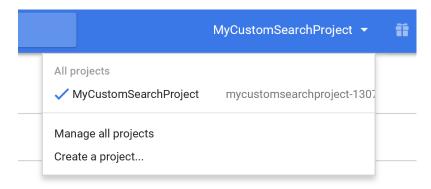
Click on My Console on the right hand side

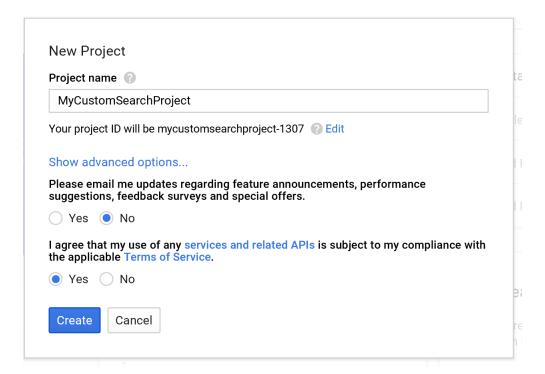


If no project has been created previously it might throw an error when using FireFox so preferably use Google Chrome for this step.

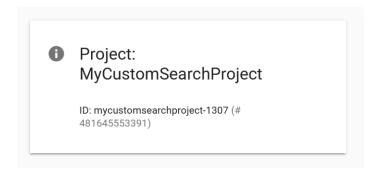


The option for creating a project will be available on the top menu bar, select "Create a project"

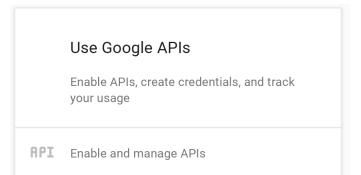




It will take a few seconds and then the project will appear in the dashboard



Enable the custom search API by clicking on the dashboard that has the custom search Widget



Then click on custom search under other API's



Other popular APIs

Analytics API

Translate API

Custom Search API

URL Shortener API

PageSpeed Insights API

Fusion Tables API

Web Fonts Developer API

Click the enable button, once enable it will ask you to set up credentials, so click on go to credentials



Custom Search API

	Create server API key	
	This key should be kept secret on your server Every API request is generated by software running on a machine that you control. Per-user limits will be enforced using the address found in each request's userIp parameter, if specified. If the userIp parameter is missing, your machine's IP address will be used instead. Learn more	
	Name	
	CustomSearchKey	
	Accept requests from these server IP addresses (Optional) Examples: 192.168.0.1, 172.16.0.0/12, 2001:db8::1 or 2001:db8::/64	
	IP address	
	Note: It may take up to 5 minutes for settings to take effect Create Cancel	
Yo	ou will get an API key; save it this will be the first key you will need for the project.	

Go to this site

https://cse.google.com

On the right hand side click on the button create a custom search

Create a custom search engine

Add the dblp site as the site for the custom search - http://dblp.uni-trier.de/

Enter the site name and click "Create" to create a search engine for your site. Learn more

Sites to search http://dblp.uni-trier.de/ www.example.com

Click Create.

Congratulations!

You've successfully created your Custom search engine.

Add it to your site Get code

Click on get the code and look for the line of code that has the following:

$$var cx = "xxxxxxxxxx ..."$$

Save the number since this will be used in the configuration file of the script.

Additionally, this code can also be obtained when clicking on the main menu and then clicking on the custom search list item.

4 - Install the script

Download the project from GitHub

Install the python package manager if not already installed

Install the Google API package

```
⊗ □ xavi@xavi-VirtualBox: ~/Projects/PaperSearch
xavi@xavi-VirtualBox: ~/Projects/PaperSearch$ pip install --upgrade google-api-python-client
```

Setup the developer key and the custom search engine id in the config.json file, the developer key will be the Server Key that was generated in step 2 and the Search Engine ID will be the one that was generated in step 3

Run the script with the following command:

```
② ○ ③ xavi@xavi-VirtualBox:~/Projects/PaperSearch
xavi@xavi-VirtualBox:~/Projects/PaperSearch$ python pSearch.py names.txt keywords.txt

xavi@xavi-VirtualBox:~/Projects/PaperSearch$ python pSearch.py names.txt keywords.txt
```