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

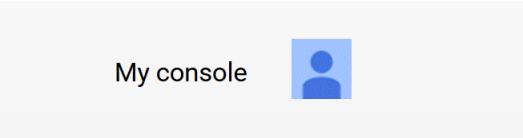
A new Google Account can be created here:

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

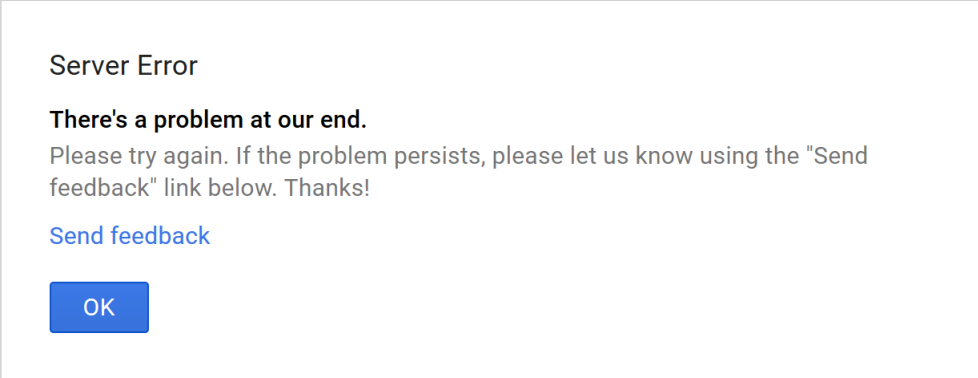
2- Create a custom search project in the Google cloud platform:

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

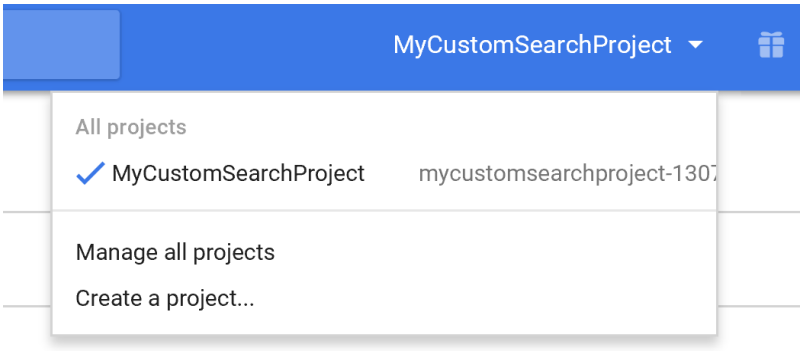
Click on My Console on the right hand side

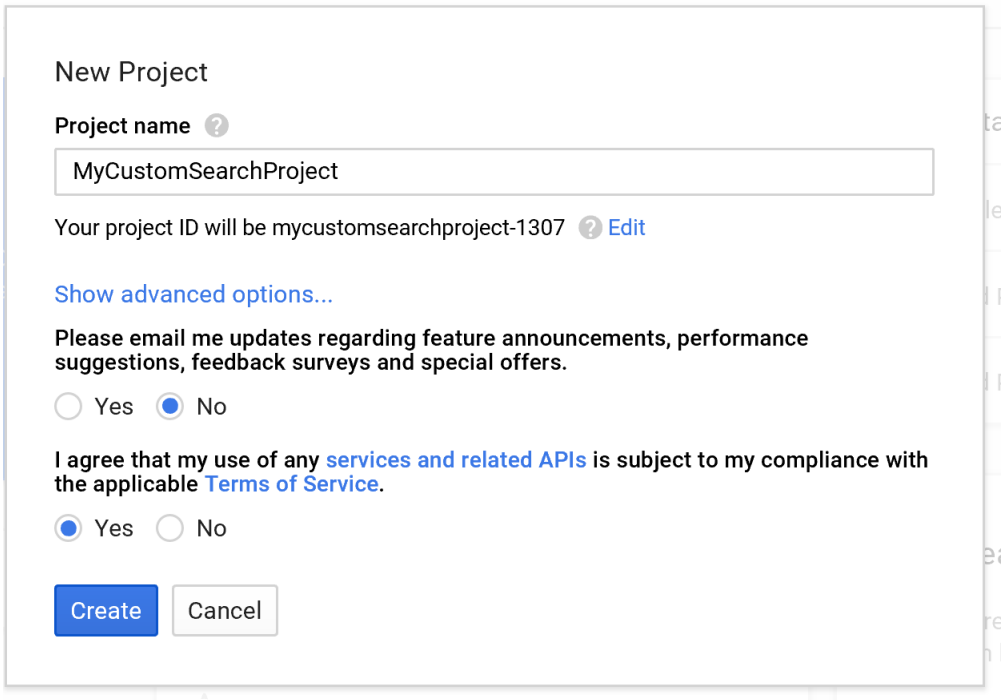


If no project has been created previously it might throw an error when using FireFox so preferably use Google Chrome for this step.

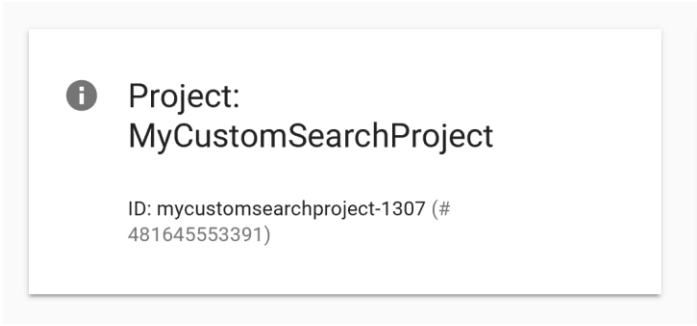


The option for creating a project will be available on the top menu bar, select “Create a project”

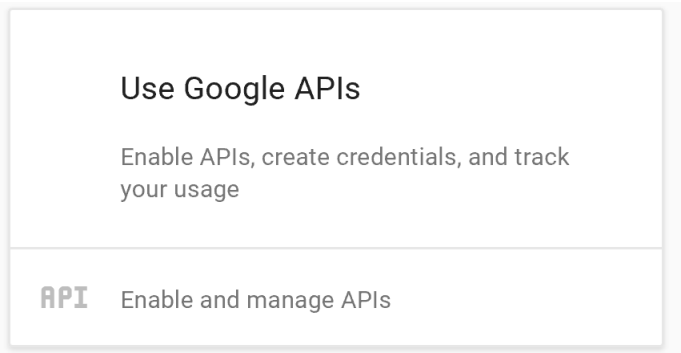




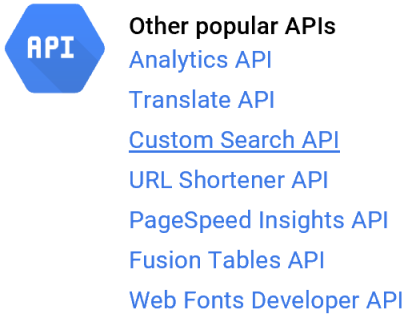
It will take a few seconds and then the project will appear in the dashboard



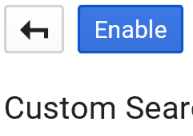
Enable the custom search API by clicking on the dashboard that has the custom search Widget



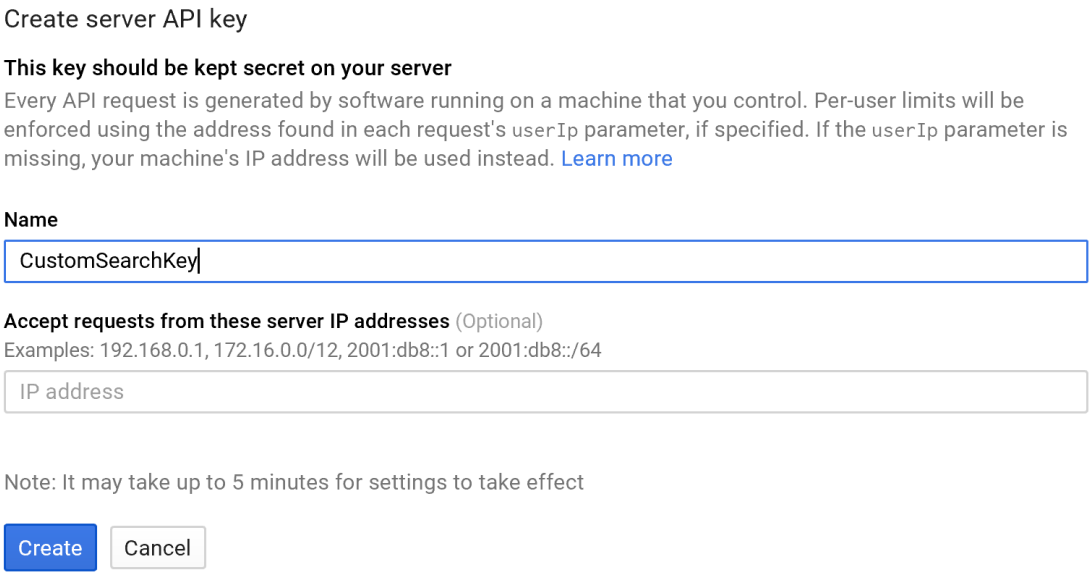
Then click on custom search under other API's



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



The link will try to walk you through the best type of key for your needs but for this project I have used an API key so you can just click on API key and select Server Key and click Create



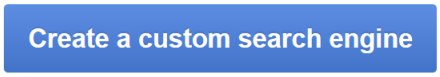
You will get an API key; save it this will be the first key you will need for the project.

3 - Create a Custom Search

Go to this site

https://cse.google.com

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



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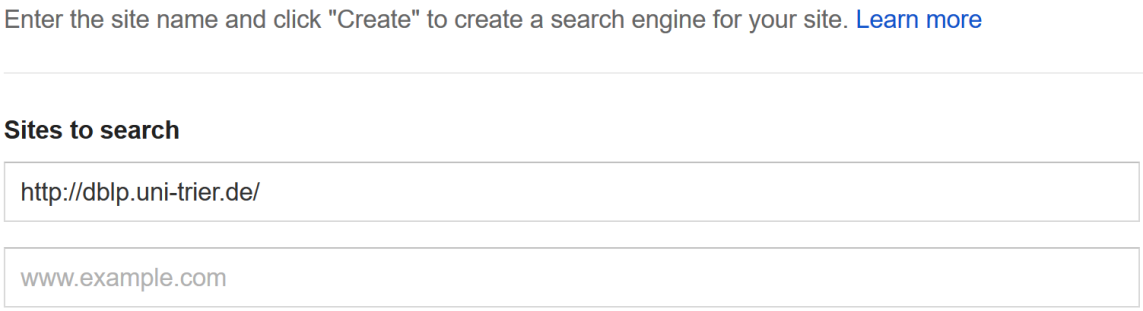
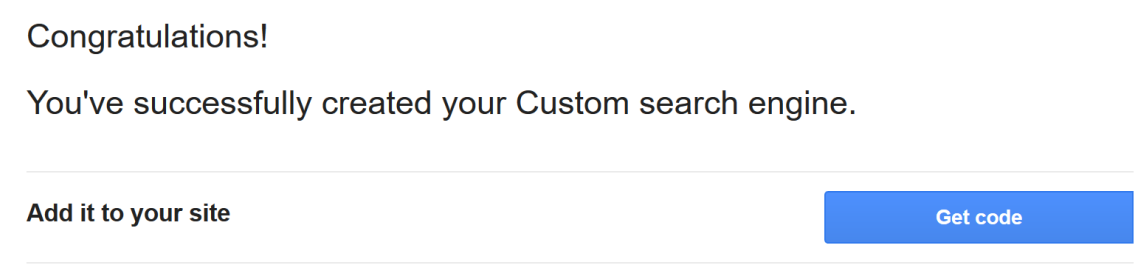
Add the dblp site as the site for the custom search - http://dblp.uni-trier.de/



Click Create.



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

$$var\ cx = "xxxxxxxxx \ldots"$$

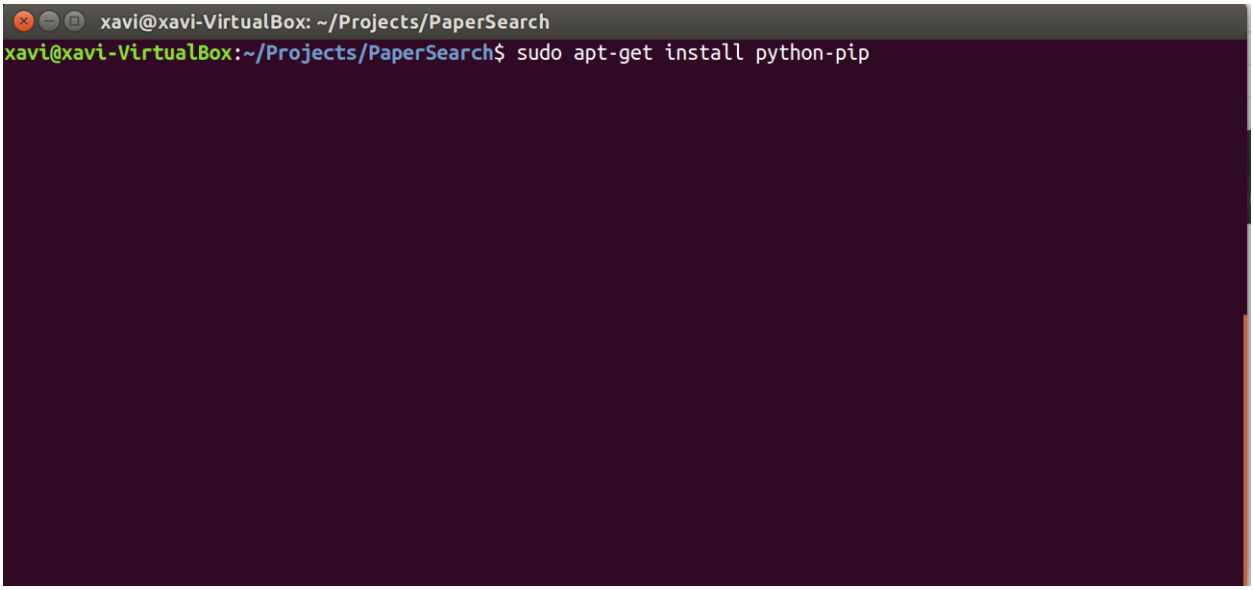
Save the number since this will be used in the configuration file of the script.

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

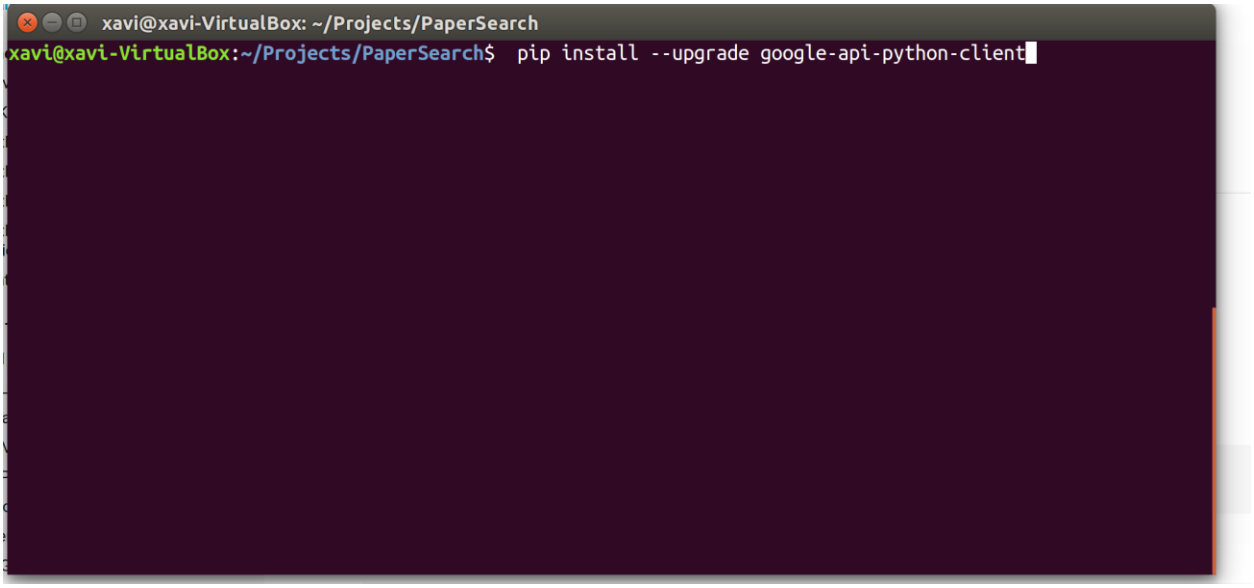
4 - Install the script

Download the project from GitHub

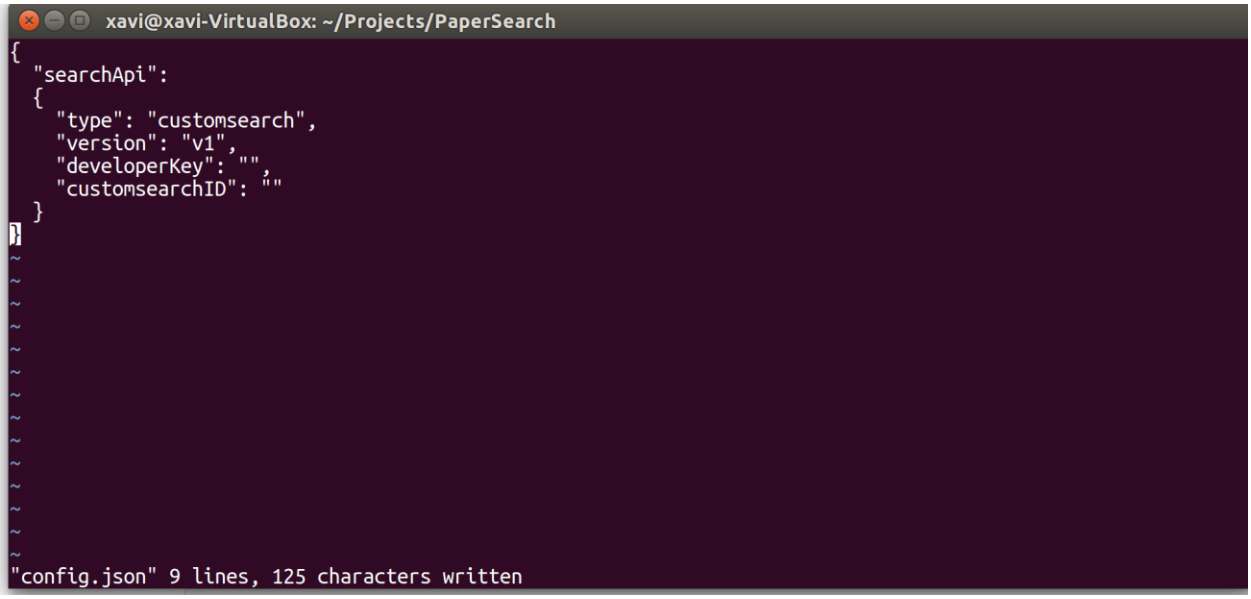
Install the python package manager if not already installed



Install the Google API package



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: