

Instructions

1. Obtaining API Keys:

- **YouTube API Key:**
 - Go to the [Google Developers Console](#).
 - Create a new project or select an existing one.
 - Enable the YouTube Data API v3 for your project.
 - Generate an API key in the Credentials section.
 - Copy the generated API key.
- **Google Custom Search Engine (CSE) API Key:**
 - Go to the [Google Custom Search Engine](#) page.
 - Create a new search engine or select an existing one.
 - Get the API key from the setup page of your custom search engine.
 - Note: Make sure to enable the Custom Search JSON API in the Google Cloud Console.
 - Additionally, note down the Search Engine ID provided for your custom search engine.


2. Adding API Keys to Bot Files:

- Open the `GoogleBot.py` file.
- Locate the `API_KEY` and `SEARCH_ENGINE_ID` variables. (same for `YouTubeBot.py`)
- Replace `'YOUR_GOOGL_CSE_API_KEY'` with your actual Google CSE API key obtained in step 1.
- Replace `'YOUR_SEARCH_ENGINE_ID'` with your actual Google Custom Search Engine ID obtained in step 1. Similar in the `YouTubeBot.py`, replace the `'YOUR_YOUTUBE_API_KEY'`

3. Testing API Endpoints:

- Ensure that the Flask server for the Google bot is running locally.
- Test the Google bot API endpoint by making a GET request to `http://localhost:5003/search-google` with a query parameter (`?query=YOUR_SEARCH_QUERY`) using tools like Postman or whatever you want.

4. Integrating Bots into the Application:

- In your `main.py` file, no need to import functions from bot files.
- Ensure the Flask server for both bots is running.
- Modify `main.py` to call the appropriate bot API endpoints based on user input. (you can look how it's done for the other bots)
- Emit the search results to the frontend using  [Socket.IO](#) .
- Modify the frontend UI (`index.html`) to include buttons for triggering each bot search.
- Add JavaScript functions to handle button clicks and emit corresponding events to the server (same as the other bots)

5. Adding Buttons in the UI:

- Add buttons in the frontend UI for triggering YouTube and Google bot searches.
- Associate JavaScript functions with these buttons to send requests to the server.
- Update the UI to display search results received from the server.