**Do not change : REDIRECT\_URI, TOKENS**

**1. Google OAuth 2.0 Keys (CLIENT\_ID, CLIENT\_SECRET)**

**a. Go to the Google Cloud Console**

* Visit Google Cloud Console.

**b. Create a New Project**

* Click on the project drop-down and select "New Project".
* Enter a project name and click "Create".

**c. Enable OAuth 2.0 and Google APIs**

* Select your project.
* In the left-hand menu, go to APIs & Services > Library.
* Search for "Google Identity Platform" and enable it.
* Also, search for "YouTube Data API v3" and enable it.

**d. Configure OAuth Consent Screen**

* Go to APIs & Services > OAuth consent screen.
* Choose "External" and click "Create".
* Fill out the required fields and save.

**e. Create OAuth 2.0 Credentials**

* Go to APIs & Services > Credentials.
* Click on "Create Credentials" and select "OAuth 2.0 Client IDs".
* Configure the consent screen if prompted.
* Fill in the application type (Web Application).
* Fill the authorized redirect URIs with there URIs:
  + <http://localhost:5000/oauth2callback>
  + <https://trend-analysis-website-server.vercel.app/oauth2callback>
  + <https://trend-analysis-website-server.vercel.app/api/auth/oauth2callback>
  + http://localhost:5000/api/auth/oauth2callback
* Click "Create".

**f. Retrieve OAuth 2.0 Keys**

* Once created, you will get a CLIENT\_ID and CLIENT\_SECRET.
* Save these values securely.

**2. Google API Key (GOOGLE\_API\_KEY)**

**a. Go to the Google Cloud Console**

* In the same project where you created the OAuth 2.0 credentials.

**b. Create an API Key**

* Go to APIs & Services > Credentials.
* Click on "Create Credentials" and select "API key".
* An API key will be generated.
* Click "Restrict Key" to add application restrictions (HTTP referrers) and API restrictions (YouTube Data API v3).

**3. OpenAI API Key (OPENAI\_API\_KEY)**

**a. Sign Up / Log In to OpenAI**

* Go to [OpenAI](https://beta.openai.com/signup/).
* Log in or create an account.

**b. Access API Keys**

* After logging in, go to your API keys page.
* Click on "Create new secret key".
* A new API key will be generated.
* Copy this key and save it securely.