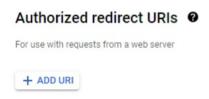
## Requirements & Updates required

- 1. Step 1: Get Google client services file:
  - Login to your Google cloud services
     (https://console.cloud.google.com/apis/credentials) and create a new project or use an existing one.
  - Then go to Credentials in APIs & Services and create "OAuth 2.0 Client IDs" using
    - "https://support.google.com/cloud/answer/6158849?hl=en#userconsent&zippy=%2Cuser-consent" and create a OAuth file.
  - Then download the file and rename it to "client services.json"
  - Finally place in with all the other files.
- 2. Step 2: Configuring OpenAl API keys using "gpt-4o-mini"
  - Login or sign up to your OpenAl API (<a href="https://openai.com/index/openai-api/">https://openai.com/index/openai-api/</a>)
     and navigate to Dashboard -> API keys.
  - Create a new Key and save it as "openai\_key.json"
  - Remember to take a screenshot or store this key as it won't be visible again.
  - Here is the details on which model to use
     "https://platform.openai.com/docs/models/gpt-4o-mini"
  - To learn more about gpt-4o-mini model you can refer to <a href="https://benjamincrozat.com/gpt-4o-mini">https://benjamincrozat.com/gpt-4o-mini</a> Medium post.
- 3. Step 3: Installing the dependencies from "requirements.txt" file.
  - It might suggest upgrading the packages which is fine.
- 4. Step 4: token.pickle file
  - If at any point you want to change your gmail, just delete your token.pickle file from the folder and you should be fine.
  - I would suggest to delete this file before every run to get the option of choosing your gmail account.
- 5. Step 5: Understanding the code
  - Firstly, for gmail I used only "readonly" scope because I wanted to read the gmail and use it for analysis. There are different scopes so know which one to use beforehand.
  - The UI in "app.py" uses fixed style imported from google api css. You can remove and build your own from scratch. For this I used streamlit components v1.
- 6. Step 6: Run the web app
  - Use "streamlit run app.py" in terminal to run it in your localhost.

 Make sure this local host is added in your redirect URIs list in Gmail OAuth as below.



## 7. References:

- You can tag this github and my linkedin (<a href="https://www.linkedin.com/in/rahul-gupta-a31749166">https://www.linkedin.com/in/rahul-gupta-a31749166</a>/)
- I used a YouTube video by Jie Jenn. Easy to understand on how to use Gmail API (<a href="https://www.youtube.com/watch?v=44ERDGa9Dr4">https://www.youtube.com/watch?v=44ERDGa9Dr4</a>)

## 8. Note

- Don't forget to add client\_services.json and update openai\_key.json files to use it in the code.
- Also update the path of openai\_key.json file in the "SentimentAnalysis.py" file