

Play Book

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1. Dependencies

- To run the process, few packages need to be installed beforehand.
- The packages used in the code can be installed in one go through below command

```
pip install fastapi uvicorn google-generativeai requests pdf2image  
pytesseract fpdf
```

Main packages include,

- fastapi/uvicorn - for API services
- Google-generativeai - for gemini AI services

2. API Keys and Gemini Model

- As part of the process, we have leveraged google gemini AI to get the response for classification, detecting intent and more.
- To run the process, we need to provide our own API key from gemini-AI.
- Replace the key in the below code occurrences.

```
genai.configure(api_key="<Provide you key here>")
```

- For the model, we have used "gemini-2.0-pro-exp-02-05".
- As per your pricing of the Gemini AI, choose/set the model accordingly.

```
model = genai.GenerativeModel("<Your-Model>")
```

3. Mail Account

- For the testing we have used the temporary mail address created on <https://mail.tm/>
- As per the mail domain, the Fetch_Emails might change.
- Please create one on <https://mail.tm/> to replicate the exact testing infrastructure.

4. How to Run

- Main.py acts as a consolidated function to test the working of all developed features.

- Ensure, you set the correct email and password, gemini AI model, gemini AI API key and in all the occurrences of every file.
- Ensure, you have the correct folder paths set for below variables in FetchMails file.

ATTACHMENT_FOLDER

EXTRACTEDTEXT_FOLDER

- Make sure to have the required mails in the email provided and have attachments as pdf type.
- On running the main.py file, it performs below actions
 - ◆ Fetches mails from mailbox.
 - ◆ If any attachments present, downloads the attached files to provided folder.
 - ◆ For the downloaded attachments, uses gemini-AI and extracts the file details.
 - ◆ Prints the extracted text and saves as text file in provided folder.
 - ◆ Classifies the mails and prints request type, sub request type and confidence %.
 - ◆ Identifies and prints the primary intent, other intents with reasoning.
- For the API run,
 - ◆ Run the Mails_API.py file.
 - ◆ It starts the API server.
 - ◆ You can access the APIs at [FastAPI - Swagger UI](#) (ensure the Mails_API.py file is running while using the API in browser).