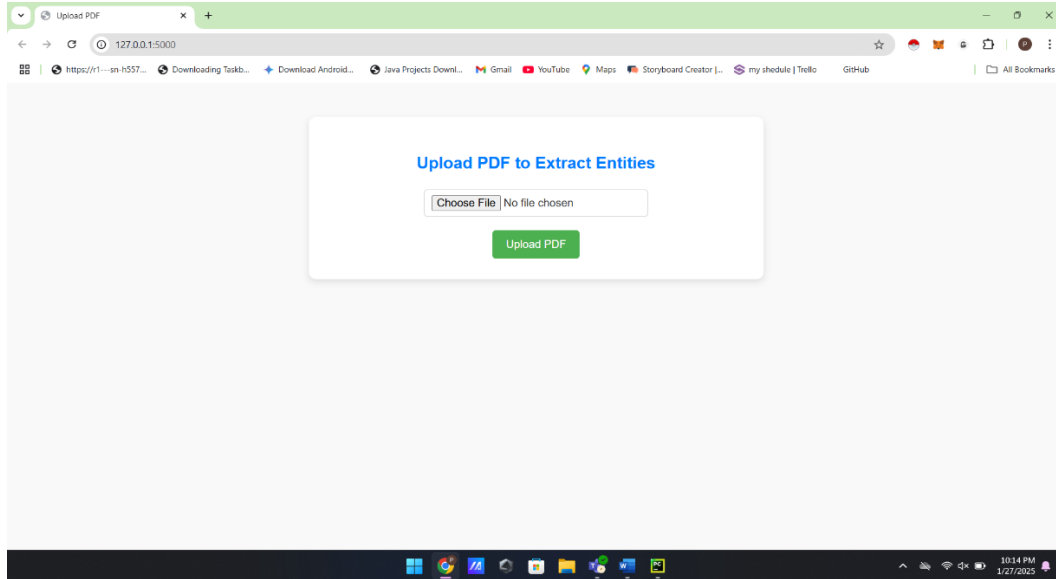


## PYTHON ASSIGNMENT

Output:

I have created a flask app for my routing so that I can integrate python with my html



Then upload the files that is “PS-7.pdf” or “BG sample 3.pdf”

OUTPUT: for “BG sample 3.pdf”

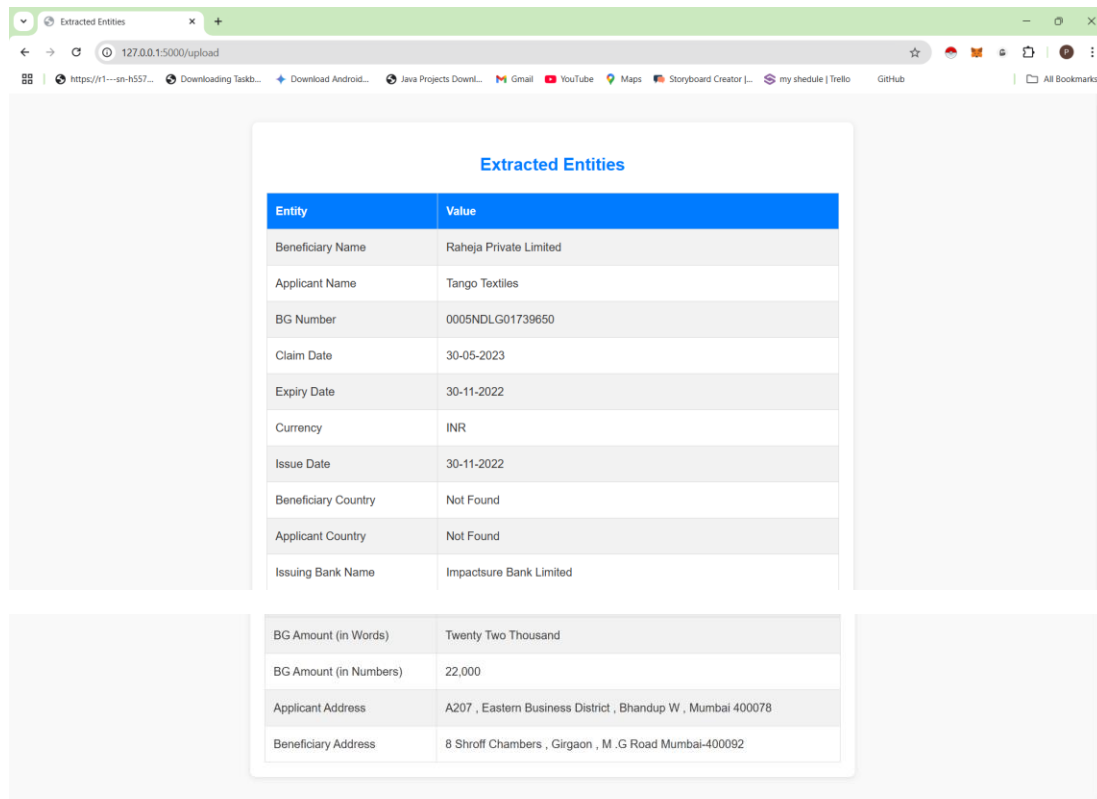
The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/upload'. The page title is 'Extracted Entities'. The main content area displays a table of extracted entities from the uploaded PDF file.

Entity	Value
Beneficiary Name	INDIAN OIL CORPORATION LIMITED
Applicant Name	ACME Limited
BG Number	BG202501091002E
Claim Date	30-06-2028
Expiry Date	31-12-2026
Currency	INR
Issue Date	18-01-2025
Beneficiary Country	Not Found
Applicant Country	Not Found
Issuing Bank Name	Impactsure Bank Limited

BG Amount (in Words)	Twenty Five Lakh and Fifty Thousand
BG Amount (in Numbers)	25,05,000
Applicant Address	Grant House , 2nd Floor , Uppal Hyderabad 500013 India
Beneficiary Address	Auckland Garden , Mumbai , 400010

## OUTPUT for PS-7.pdf



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/upload'. The browser's address bar and tabs are visible at the top. The main content area displays a table titled 'Extracted Entities' with a blue header. The table has two columns: 'Entity' and 'Value'. The table contains 14 rows of data, including beneficiary and applicant information, dates, currency, and addresses. The 'Beneficiary Country' and 'Applicant Country' fields are both listed as 'Not Found'.

Entity	Value
Beneficiary Name	Raheja Private Limited
Applicant Name	Tango Textiles
BG Number	0005NDLG01739650
Claim Date	30-05-2023
Expiry Date	30-11-2022
Currency	INR
Issue Date	30-11-2022
Beneficiary Country	Not Found
Applicant Country	Not Found
Issuing Bank Name	Impactsure Bank Limited
BG Amount (in Words)	Twenty Two Thousand
BG Amount (in Numbers)	22,000
Applicant Address	A207 , Eastern Business District , Bhandup W , Mumbai 400078
Beneficiary Address	8 Shroff Chambers , Girgaon , M . G Road Mumbai-400092

In both the cases im not fetching Country of Beneficiary and Applicant I was trying to integrate it through maps API call but I couldn't integrate it in given time I have the rough code on terminal

```
1 import re
2 from opencage.geocoder import OpenCageGeocode
3
4 # OpenCage API Key (get your free API key from https://opencagedata.com/)
5 API_KEY = '18011e925f334c51874c61662e19ea03'
6 geocoder = OpenCageGeocode(API_KEY)
7
8
9 2 usages new *
10 def extract_country(address):
11     # Regex pattern to match 5 or 6 digit postal codes
12     postal_code_pattern = r'\b\d{5,6}\b'
13
14     # Step 1: Try to find a postal code in the address
15     match = re.search(postal_code_pattern, address)
16
17     if match:
18         postal_code = match.group(0)
19         # Use OpenCage Geocoder to find the country based on postal code
20         postal_result = geocoder.geocode(postal_code)
21         if postal_result and 'components' in postal_result[0]:
22             country = postal_result[0]['components'].get('country', 'Unknown')
23             return country
24
25     # Step 2: If no postal code is found, use the full address to extract the country
26     result = geocoder.geocode(address)
27     if result and 'components' in result[0]:
28         return result[0]['components'].get('country', 'Unknown')
29
30     return 'Unknown'
31
32 # Sample addresses
33 sample1 = "having it's registered office at A207 , Eastern Business District , Bhandup W , Mumbai 400078"
34 sample2 = "registered office at Grant House , 2nd Floor , Uppal Hyderabad 500013 India ."
35
36 # Extract country
37 print(extract_country(sample1)) # Expected output: India (based on postal code 400078)
38 print(extract_country(sample2)) # Expected output: India (based on postal code 500013 or explicit mention)
```

In the above code I was taking the postal 6 digit code and then I was finding the country