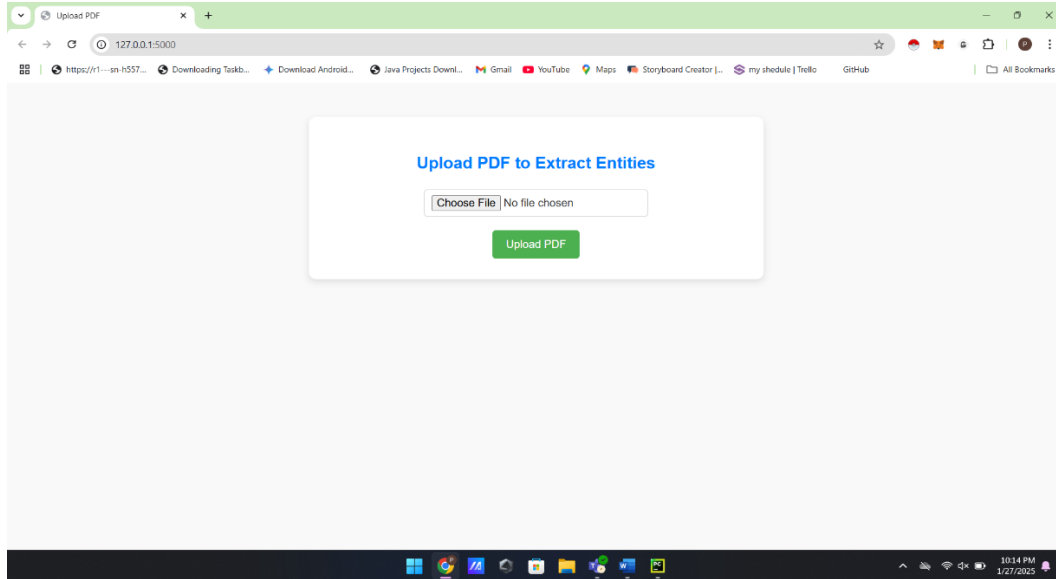# PYTHON ASSIGNMENT

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"
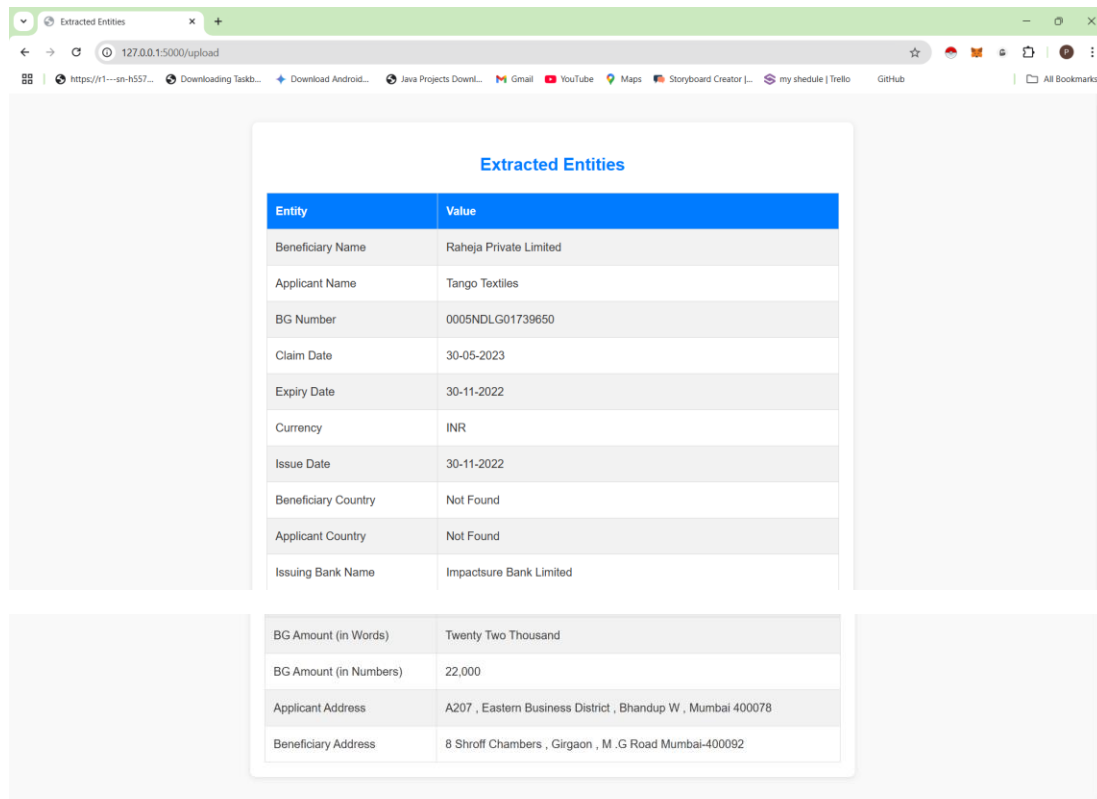
OUTPUT: for "BG sample 3.pdf"



| 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



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

```python
import re
from opencage.geocoder import OpenCageGeocode

# OpenCage API Key (get your free API key from https://opencagedata.com/)
API_KEY = '18011e925f334c51874c61662e19ea03'
geocoder = OpenCageGeocode(API_KEY)


2 usages  new *
def extract_country(address):
    # Regex pattern to match 5 or 6 digit postal codes
    postal_code_pattern = r'\b\d{5,6}\b'

    # Step 1: Try to find a postal code in the address
    match = re.search(postal_code_pattern, address)

    if match:
        postal_code = match.group(0)
        # Use OpenCage Geocoder to find the country based on postal code
        postal_result = geocoder.geocode(postal_code)
        if postal_result and 'components' in postal_result[0]:
            country = postal_result[0]['components'].get('country', 'Unknown')
            return country

    # Step 2: If no postal code is found, use the full address to extract the country
    result = geocoder.geocode(address)
    if result and 'components' in result[0]:
        return result[0]['components'].get('country', 'Unknown')

    return 'Unknown'
```

```python
# Sample addresses
sample1 = "having it's registered office at A207 , Eastern Business District , Bhandup W , Mumbai 400078"
sample2 = "registered office at Grant House , 2nd Floor , Uppal Hyderabad 500013 India ."

# Extract country
print(extract_country(sample1))  # Expected output: India (based on postal code 400078)
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