



MY APP

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Practical-Based Assignment

Cloud Computing


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HOME PAGE

 My App

Weather

Memes

Translator

Figure 1: Home Page

This is the 'My App' Home Page. It has three buttons, 'Weather', 'Meme', and 'Translator'.

WEATHER PAGE

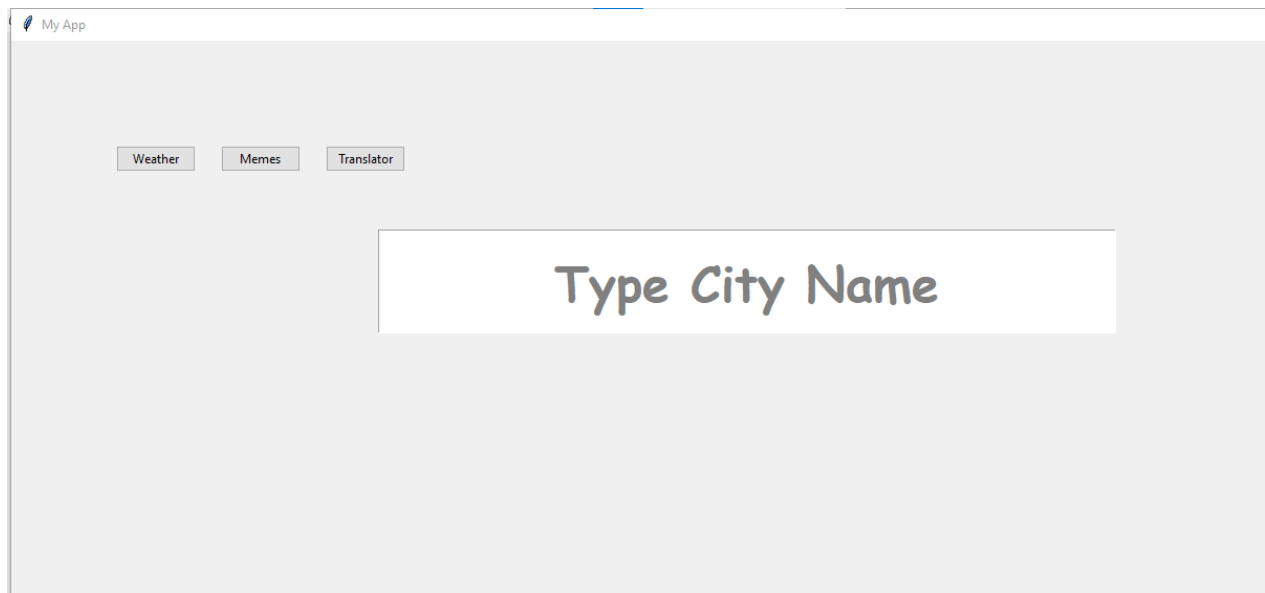


Figure 2: Weather Page

In this Weather Page, the user has to give a city name in the world with correct spellings.

And also, the user can navigate to 'Translator Page' or 'Meme Page'.

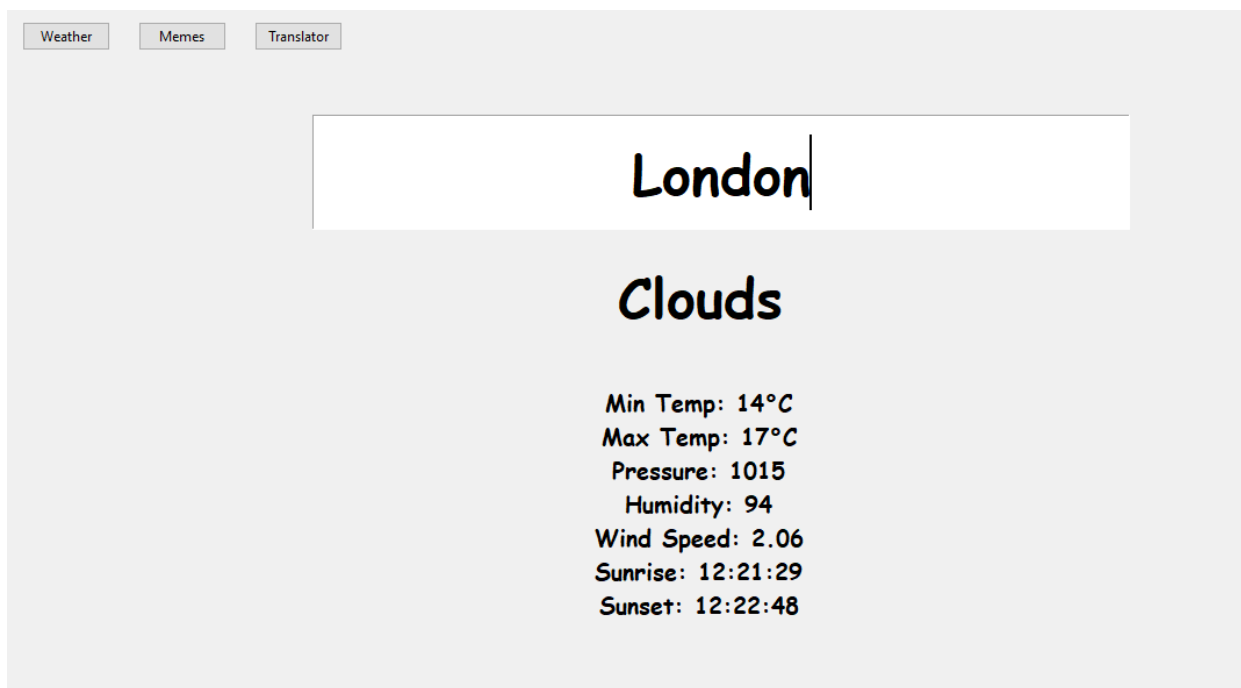


Figure 3: Weather Page with Weather Details of London

Once the user enters any city name in the world and hit enter, the weather details of that city will be displayed.

The weather details include, Min and Max Temperatures, Pressure, Humidity, Wind Speed, Sunrise and Sunset Times.

MEMES PAGE

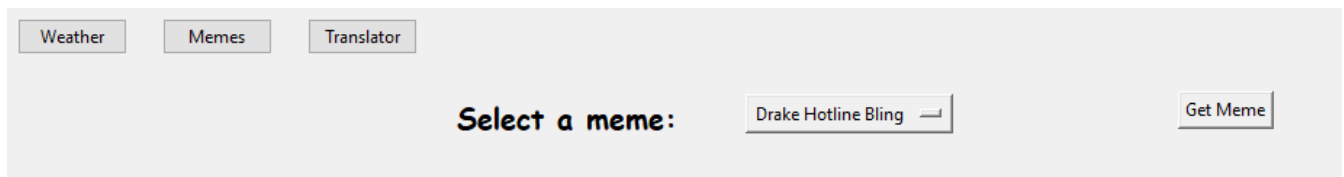


Figure 4: Meme Page

‘Meme’ is an image, typically humorous in nature, that is copied and spread rapidly by internet users.

Through this window, once the user gets selected a meme, and hits the button ‘Get Meme’, it will be open the pic in your PC as below.

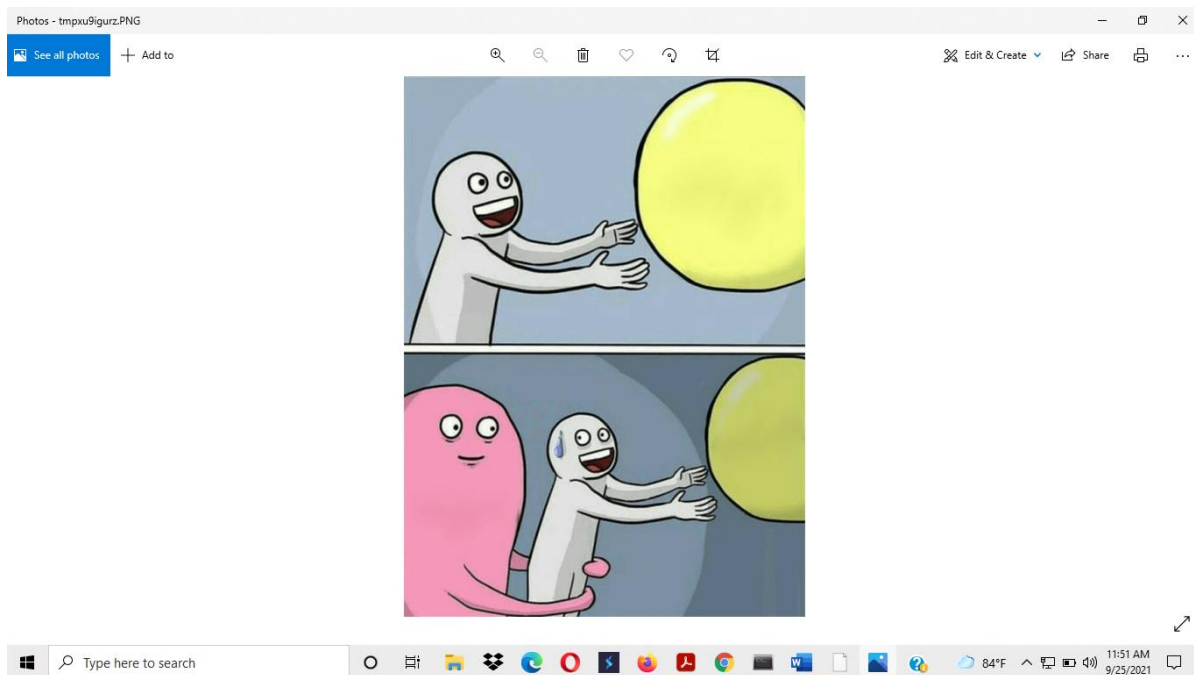



Figure 5: Opened Meme

TRANSLATOR PAGE

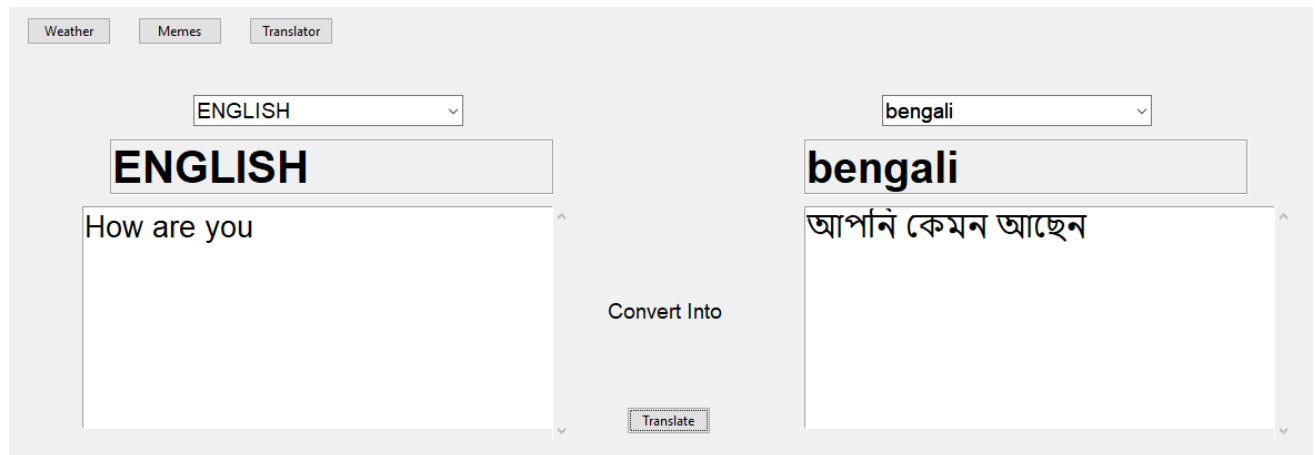


The image shows a web interface for a translator. At the top, there are three tabs: 'Weather', 'Memes', and 'Translator'. The 'Translator' tab is active. Below the tabs, there are two main sections. The left section has a dropdown menu set to 'ENGLISH' and a large text input area. The right section has a dropdown menu set to 'SELECT LANGUAGE' and a large text input area. Between the two input areas, there is a 'Convert Into' label and a 'Translate' button. The interface is clean and modern, with a light gray background and white input fields.

Figure 6: Translator Page

The user wants to select a language and type something that want to be translated.

Then the user wants to click the button, 'Translate'. It will be translated the language that user preferred. If I show an example as below,



The image shows the same web interface as Figure 6, but with an example of translation. The left dropdown menu is still set to 'ENGLISH', and the text input area contains 'How are you'. The right dropdown menu is now set to 'bengali', and the text input area contains 'আপনি কেমন আছেন'. The 'Convert Into' label and the 'Translate' button are still present between the input areas. The interface is clean and modern, with a light gray background and white input fields.

Figure 7: Example of Translator

WEATHER API

```
def getWeather(canvas):
    city = textField.get()
    api = "https://api.openweathermap.org/data/2.5/weather?q="+city+"&appid=06c921750b9a82d8f5d1294e1586276f"

    json_data = requests.get(api).json()
    condition = json_data['weather'][0]['main']
    temp = int(json_data['main']['temp'] - 273.15)
    min_temp = int(json_data['main']['temp_min'] - 273.15)
    max_temp = int(json_data['main']['temp_max'] - 273.15)
    pressure = json_data['main']['pressure']
```

Figure 8: Weather API

MEMES API

```
label1.place(x=400, y=150)

api="https://api.imgflip.com/get_memes"
json_data = requests.get(api).json()

list1=["Drake Hotline Bling",
        "Two Buttons",
        "Distracted Boyfriend",
        "Running Away Balloon",
        "Buff Doge vs. Cheems",
        "Change My Mind",
        "Left Exit 12 Off Ramp",
        "UNO Draw 25 Cards",
        "Gru's Plan"]

# datatype of menu text
clicked = tk.StringVar(canvas)

# initial menu text
clicked.set("Drake Hotline Bling")
```

Figure 9: Meme API

TRANSLATOR API

```
import sys
import googletrans
import textblob
from googletrans import Translator, LANGUAGES
```

Figure 10: Translator API

Note: Googletrans is a free and unlimited python library that implemented Google Translate API.

The End