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Weather Forecasting System:

Introduction:

Weather forecasting is the application of science and technology to predict the state of the atmosphere for a given location. This system is a web application with effective graphical user interface. Weather forecasting system takes parameters such as temperature, humidity, and wind.

Input:

```
In [ ]:  '''PROJECT NAME: WEATHER FORCAST SYSTEM
         STUDENT NAME: GHONE SHRIPAD DIPAK
         REGISTRATION NUMBER: 21BIT0403
         pROBLEM SET 4
         '''
         #import the necessary package|
         import requests
         #input the city name

         city = input('input the city name')
         print(city)

         # city = 'bhopal'
         #Display the message:

         print('Displaying Weather report for: ' + city)

         #Weather details
         url ='https://wttr.in/{}' .format(city)
         res = requests.get(url)
         print(res.text)
```

Output:

```
input the city namebhopal
bhopal
Displaying Weather report for: bhopal
Weather report: bhopal

          \   /      Sunny
           .-.       25 °C
        ― (   ) ―    ✹ 16 km/h
           `-'       10 km
          /   \      0.0 mm
```

```
                          ┌─────────────┐
                          │ Wed 01 Dec  │
┌─────────────────────────┼─────────────┼─────────────────────────┐
│          Morning        │    Noon      │         Evening         │
│          Night          │              │                         │
├─────────────────────────┼─────────────┼─────────────────────────┤
│  \   /     Partly cloudy │  \   /   Sunny       │  \   /   Clear        │
│   .-.      Partly cloudy │   .-.    +26(25) °C  │   .-.    21 °C        │
│ _/"".-.    20 °C         │          ✹ 15-17 km/h│          ✹ 11-18 km/h │
│ _/"".-.    18 °C         │                      │                       │
│ \_(   ).   ✹ 12-14 km/h  │                      │                       │
│ \_(   ).   ↓ 9-17 km/h   │          10 km       │          10 km        │
│ /(___(__)  10 km         │                      │                       │
│ /(___(__)  10 km         │                      │                       │
│            0.0 mm | 0%   │          0.0 mm | 0% │          0.0 mm | 0%  │
│            0.0 mm | 0%   │                      │                       │
└─────────────────────────┴──────────────┴───────────────────────┘
```
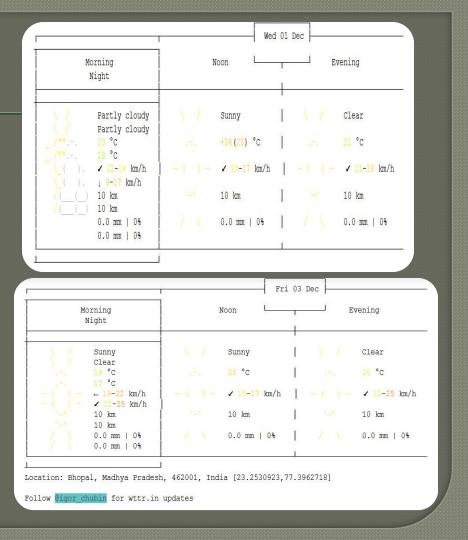
```
                          ┌─────────────┐
                          │ Thu 02 Dec  │
┌─────────────────────────┼─────────────┼─────────────────────────┐
│          Morning        │    Noon      │         Evening         │
│          Night          │              │                         │
├─────────────────────────┼─────────────┼─────────────────────────┤
│  \   /     Partly cloudy │  \   /   Partly cloudy │      Cloudy       │
│   .-.      Partly cloudy │   .-.    17 °C         │ .--.  16 °C       │
│ _/"".-.    17 °C         │ _/"".-.  17 °C         │                   │
│ _/"".-.    +15(13) °C    │                        │                   │
│ \_(   ).   ⬊ 19-23 km/h  │ \_(   ). ✹ 19-24 km/h  │ .-(   ). ↓ 23-27 km/h │
│ \_(   ).   ↓ 20-27 km/h  │                        │                   │
│ /(___(__)  10 km         │ /(___(__) 10 km        │ (___.__) 10 km    │
│ /(___(__)  10 km         │                        │                   │
│            0.0 mm | 0%   │          0.0 mm | 0%   │          0.0 mm | 0% │
│            0.0 mm | 0%   │                        │                   │
└─────────────────────────┴──────────────┴───────────────────────┘
```

```
                          ┌─────────────┐
                          │ Fri 03 Dec  │
┌─────────────────────────┼─────────────┼─────────────────────────┐
│          Morning        │    Noon      │         Evening         │
│          Night          │              │                         │
├─────────────────────────┼─────────────┼─────────────────────────┤
│  \   /     Sunny         │  \   /   Sunny        │  \   /   Clear        │
│            Clear         │   .-.    25 °C        │   .-.    20 °C        │
│   .-.      19 °C         │          ✹ 15-17 km/h │          ✹ 12-25 km/h │
│   .-.      17 °C         │                       │                       │
│ ― (   ) ―  ← 19-22 km/h  │                       │                       │
│ ― (   ) ―  ✹ 12-25 km/h  │                       │                       │
│            10 km         │          10 km        │          10 km        │
│            10 km         │                       │                       │
│            0.0 mm | 0%   │          0.0 mm | 0%  │          0.0 mm | 0%  │
│            0.0 mm | 0%   │                       │                       │
└─────────────────────────┴──────────────┴───────────────────────┘
```

Location: Bhopal, Madhya Pradesh, 462001, India [23.2530923,77.3962718]

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Feature:

Weather Forecast : - In this module, system will take current parameters entered by the user and will compare the parameters with the data in database and will predict the weather.

Advantages:

1)   User can easily find out Weather condition by using this system.

2)   The primary advantage of forecasting is that it provides the valuable information that can use to make decisions about the weather forecasting.

Disadvantages:

1)   Weather forecast by the system is not very accurate.

2)   Previous data is required by the system to forecast weather.