

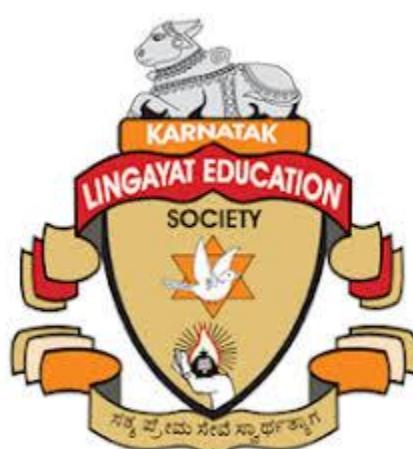
PROJECT REPORT

BANGALORE CITY UNIVERSITY



KLE SOCIETY'S NIJALINGAPPA COLLEGE

RAJAJINAGAR-560010



Submitted in partial fulfilment of the requirements

for the award of

Bachelor of Computer Application(BCA)

A PROJECT REPORT ON

WEATHER APP

Submitted By:

Shree Rabhavathi N-U18EB23S0193

Sneha V-U18EB23S0197

Priyanka R-U18EB23S0210

Getziah Jemima-U18EB23S0155

Under the guidance of:

SAHANA J K

Lecturer Of BCA Department

CERTIFICATE

This is to certify that the project report entitled
“WEATHER APP”
is a Bonafide record of work carried out by Shree
Rabhavathi N, Sneha V, Priyanka R, Getziah Jemima,
Student of Bachelor of Computer Application, KLE
S.Nijalingappa College, affiliated to Bangalore City
University, in partial fulfilment of the requirement for the
award of degree.

Signature of Guide:

Signature of HOD:

Signature of Principal:

DECLARATION

We hereby declare that the project work entitled

“WEATHER APP”

Is the result of our own efforts and has not been submitted
to any other university or Institution for the award of any
degree or diploma.

TEAM MEMBERS:

1. Shree Rabhavathi N-U18EB23S0193
- 2.Sneha V-U18EB23S0197
- 3.Priyanka R-U18EB23S0210
- 4.Getziah Jemima-U18EB23S0155

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INTRODUCTION

- A Weather App helps us check real-time weather details.
- Built using Python programming.
- Uses OpenWeatherMap API to fetch live weather data.
- Displays temperature, humidity, and weather description

REQUIREMENTS

- Python installed on your system.
- Libraries: requests
- API Key from OpenWeatherMap.
- Basic knowledge of Python programming.

WORKFLOW OF WEATHER APP

- 1. User enters city name.
- 2. Python program sends request to OpenWeatherMap API.
- 3. API sends back weather data in JSON format.
- 4. Program extracts temperature, humidity, and description.
- 5. Weather details are displayed to user

CODE

```
import requests

# Function to get weather details

def get_weather(city):

    API_KEY = "362e20a11bed4d5e0a8cbb18a753d330"

    BASE_URL = "http://api.openweathermap.org/data/2.5/weather?"

    url = BASE_URL + "appid=" + API_KEY + "&q=" + city + "&units=metric"

    response = requests.get(url)

    if response.status_code == 200:

        data = response.json()

        main = data['main']

        weather = data['weather'][0]

        print(f"\nWeather Report for: {city.upper()}\n")

        print(f"Temperature: {main['temp']}°C")

        print(f"Feels Like: {main['feels_like']}°C")

        print(f"Humidity: {main['humidity']}%")

        print(f"Weather: {weather['description'].title()}\n")

    else:

        print(f"Could not find weather data for {city}:")

# Main program

if __name__ == "__main__":

    city = input("Enter city name (e.g., Bangalore): ")

    get_weather(city)
```

OUTPUT

-
- Enter city name (e.g., Bangalore): Bangalore

Weather Report for: BANGALORE

Temperature: 28.18°C

Feels Like: 30.74°C

Humidity: 68%

Weather: Scattered Clouds

CONCLUSION

- Weather App provides real-time weather updates.
- Demonstrates Python API integration.
- Simple yet practical project for beginners.
- Can be extended with GUI for better usability.