

# 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:

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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

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3.Priyanka R-U18EB23S0210

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## **ACKNOWLEDGEMENT**

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We also thank our friends and family for their constant encouragement.



# 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()}")

        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()}")

    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

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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.