



# GETTING STARTED WITH WEATHER KIT IN iOS



Using Apple's native weather  
API in real-world apps

Powered by WeatherKit

By Shubam Gupta

# Why Do Apps Need Weather Data?

Many apps need weather:

- Travel apps
- Ride tracking apps
- EV charging apps
- Outdoor sports apps
- Agriculture apps

👉 Weather improves user experience & personalisation.

## What is WeatherKit?

WeatherKit is **Apple's official framework** introduced at WWDC 2022

It provides:

- Current weather
- Hourly forecast
- 10-day forecast
- Weather alerts
- Historical data

It powers the native Apple Weather app.

## Is It Free?

Included with **Apple Developer Program**

✓ 500,000 API calls per month free

✗ Not unlimited

💰 Paid tiers available for higher usage

👉 For most mid-size apps, **500k/month** is more than enough.

# How WeatherKit Works

Direct iOS App Integration.

**iOS App → WeatherKit → Apple Weather Servers**

Best for:

- iOS-only apps
- Small-to-medium apps

## Step-by-Step Setup

### 1. Enable WeatherKit Capability

- Xcode → Signing & Capabilities
- Add **WeatherKit**

### 2. Import Framework

- **import WeatherKit**
- **import CoreLocation**



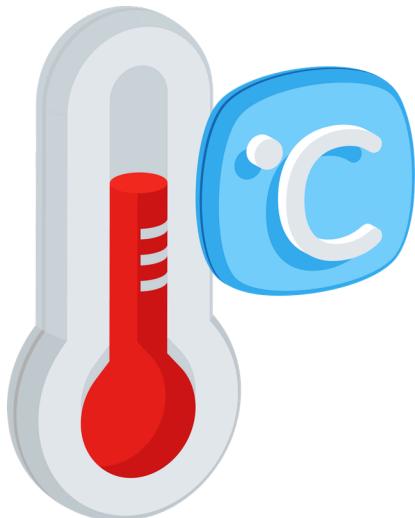
### 3. Fetch Weather by Latitude & Longitude

« Swift

```
let service = WeatherService()

let location = CLLocation(
    latitude: 12.9716,
    longitude: 77.5946
)

Task {
    do {
        let weather = try await service.weather(for: location)
        print(weather.currentWeather.temperature)
    } catch {
        print(error)
    }
}
```



#### 👉 Highlight:

- Uses async/await
- Native Swift concurrency
- Very clean API

# What Data Can You Access?

## CurrentWeather

- Temperature
- Humidity
- Wind speed
- UV Index

## HourlyForecast

- Hourly temperature
- Precipitation chance

## DailyForecast

- High/Low temperature
- Sunrise/Sunset

## Alerts

- Severe weather warnings

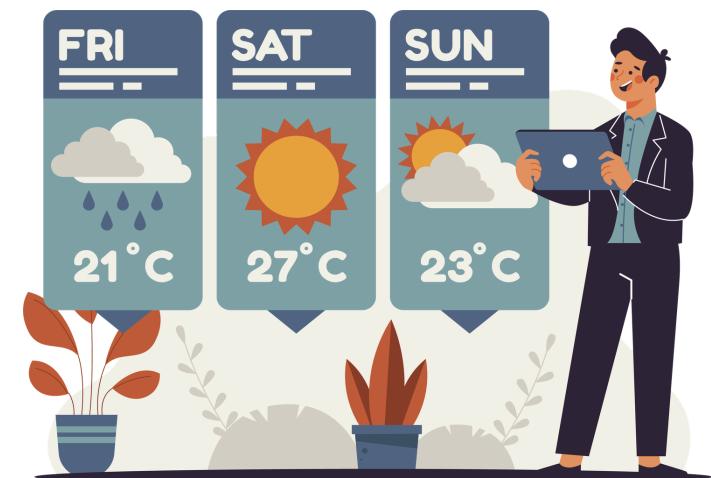
# Important Best Practices

This makes your post look strong 💪

- ✓ Do not call API every minute
- ✓ Cache responses (weather updates every 10–30 mins usually)
- ✓ Use CoreLocation carefully (privacy first)
- ✓ Avoid exposing REST tokens in client apps
- ✓ Handle API errors properly

## Common Mistakes Beginners Make

- ✗ Forgetting to enable capability
- ✗ Not handling location permission
- ✗ Making too many API calls
- ✗ Not handling async errors



## When Should You Use WeatherKit? - Use it if:

- Your app is iOS-first
- You want Apple ecosystem alignment
- You want privacy-first approach
- You stay under 500k calls/month

# THANK YOU!

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