

# Sunmo

Simple weather application with real time data.

# About the project

The weather application is a convenient and user-friendly mobile app that provides real-time weather information. With a sleek and intuitive interface, users can easily access accurate weather data for their current location. The app displays essential weather details such as temperature, humidity, wind speed, and atmospheric pressure.

## Basic App Structure

The application uses **openweathermap** API and does data fetching directly from the API. On the main screen there are some data boxes that show:

1. current temperature
2. data pressure
3. humidity

## Performed tasks

In the development process I have managed to develop the application for about two weeks. There some of the tasks I have performed:

- **Brainstorming**
  - Idea creation
- **Understanding the core idea of Flutter**
  - Basics tests
  - Environment setup
  - A lot of boilerplate
- **API Setup**
  - Choosing the best API
  - Understand data fetching
  - Testing with Postman
  - Implementation
- **Front-end process**

# Challenges

The most difficult task to perform was to connect the API. I had some problems fetching data to the application, as well as the measurement units. I incorporated a formula to convert Kelvins to Celsius:

```
factory Weather.fromJson(Map<String, dynamic> json) {  
    double kelvinToCelsius(double kelvin) {  
        return kelvin - 273.15;  
    }  
}
```

# Fundamentals

All of these technologies are used for the project creation.



**Flutter**

Dart Framework



**Dart**

Main language



**Swift**

Building to iOS



**Kotlin**

Building to Android



**Postman**

API Testing



**GitHub**

Organised project development



**Git**

Source control



**VS Code**

Main text editor



**Figma**

Main Design tool