



HistoWeather

MSE - Final Presentation

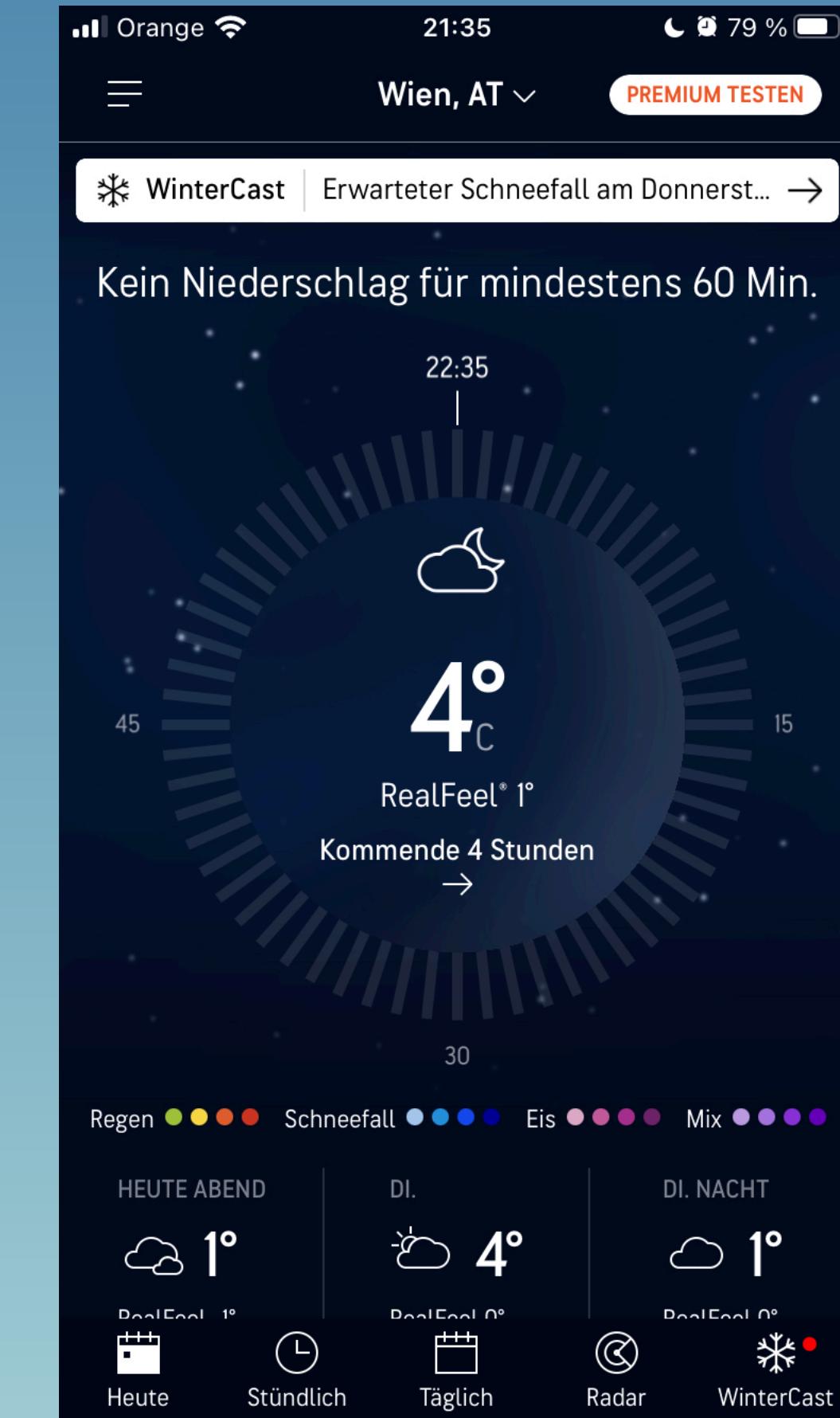
Problem

Our everyday weather apps mostly have the same functionality:

- current weather conditions (temperature, wind direction & wind speed, rain)
- predictions for the upcoming days



Problem

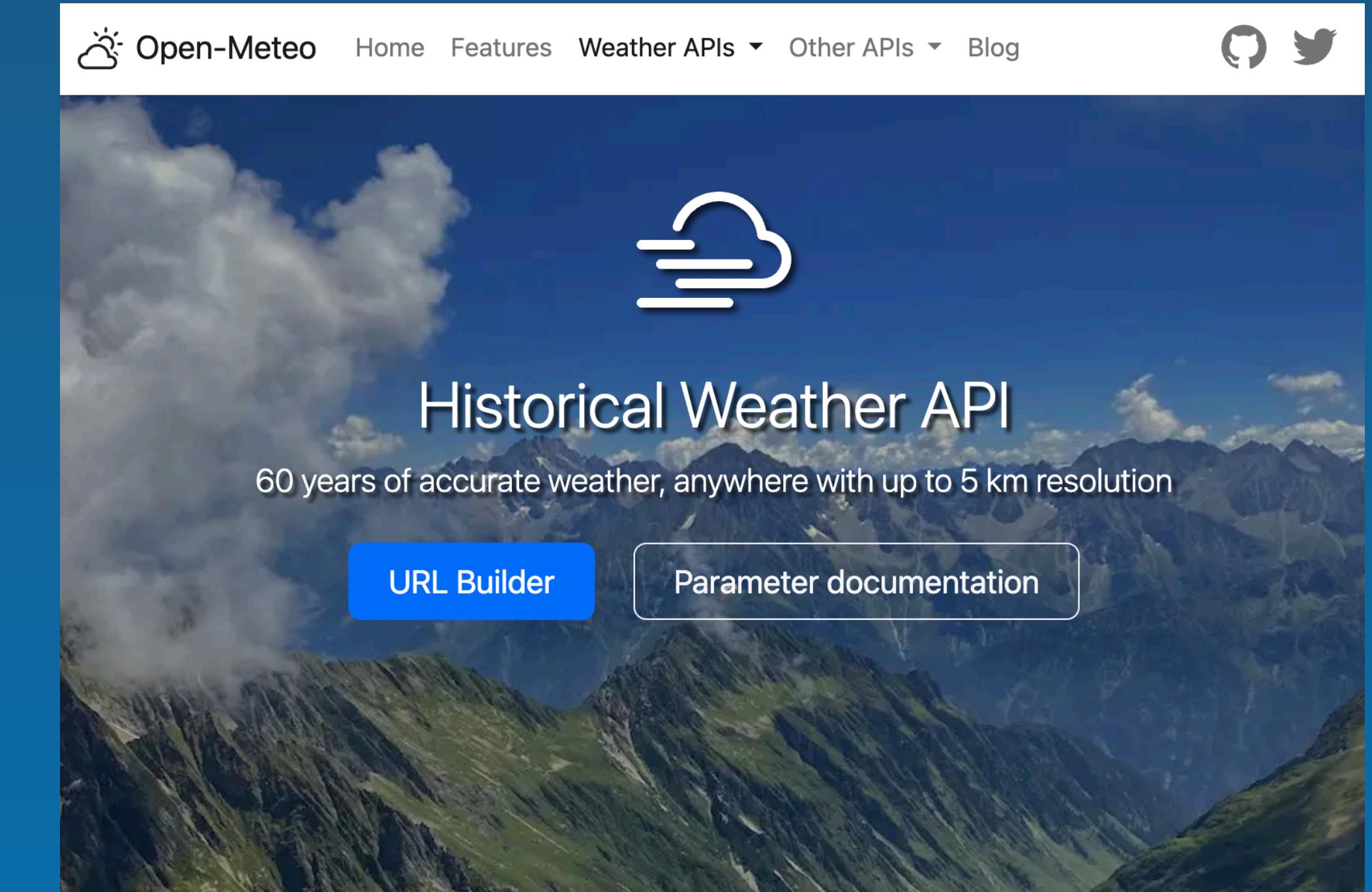


Problem

**What if there's an app that shows
us how the weather was in our
past?**

Solution

- Historical Weather API by open-meteo.com
- offers historical weather data dating back to 1959
- provides hourly and daily weather data between two dates



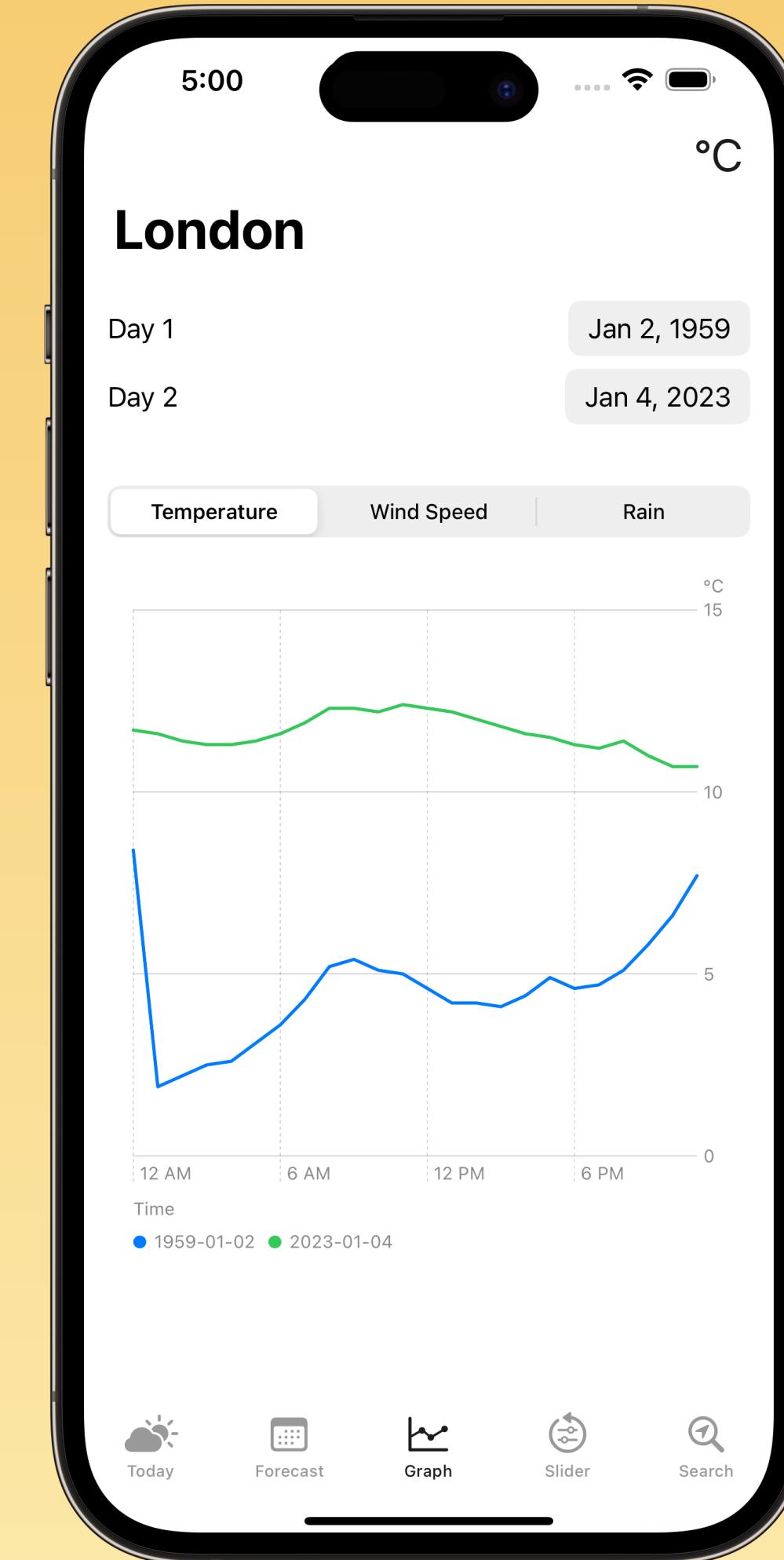
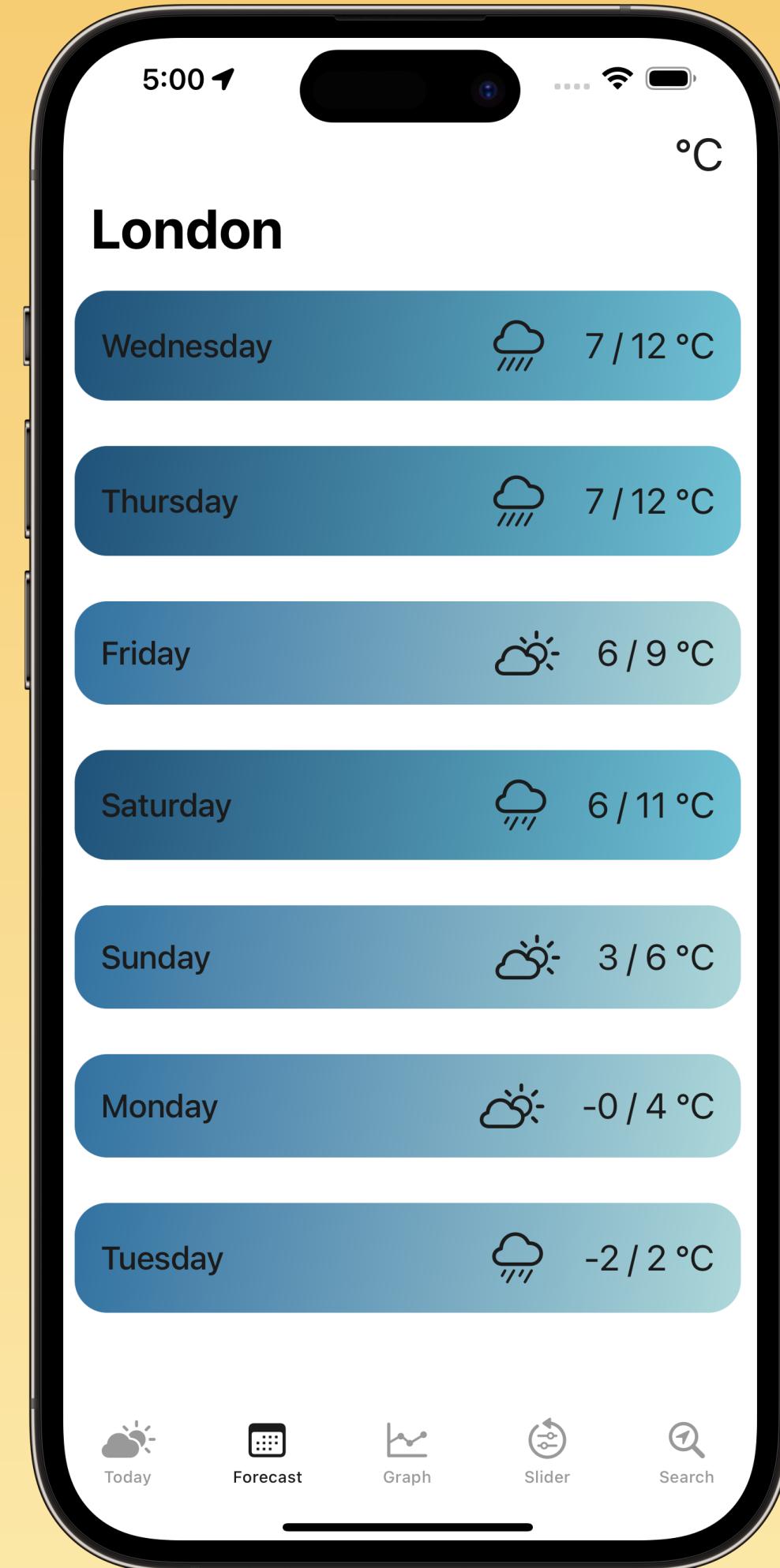
<https://open-meteo.com/en/docs/historical-weather-api>

Solution

- We designed and developed the app HistoWeather
- it connects with Open Meteo's API and lets the user explore weather data from the past
- It also has the usual features like showing current weather and forecast



Solution



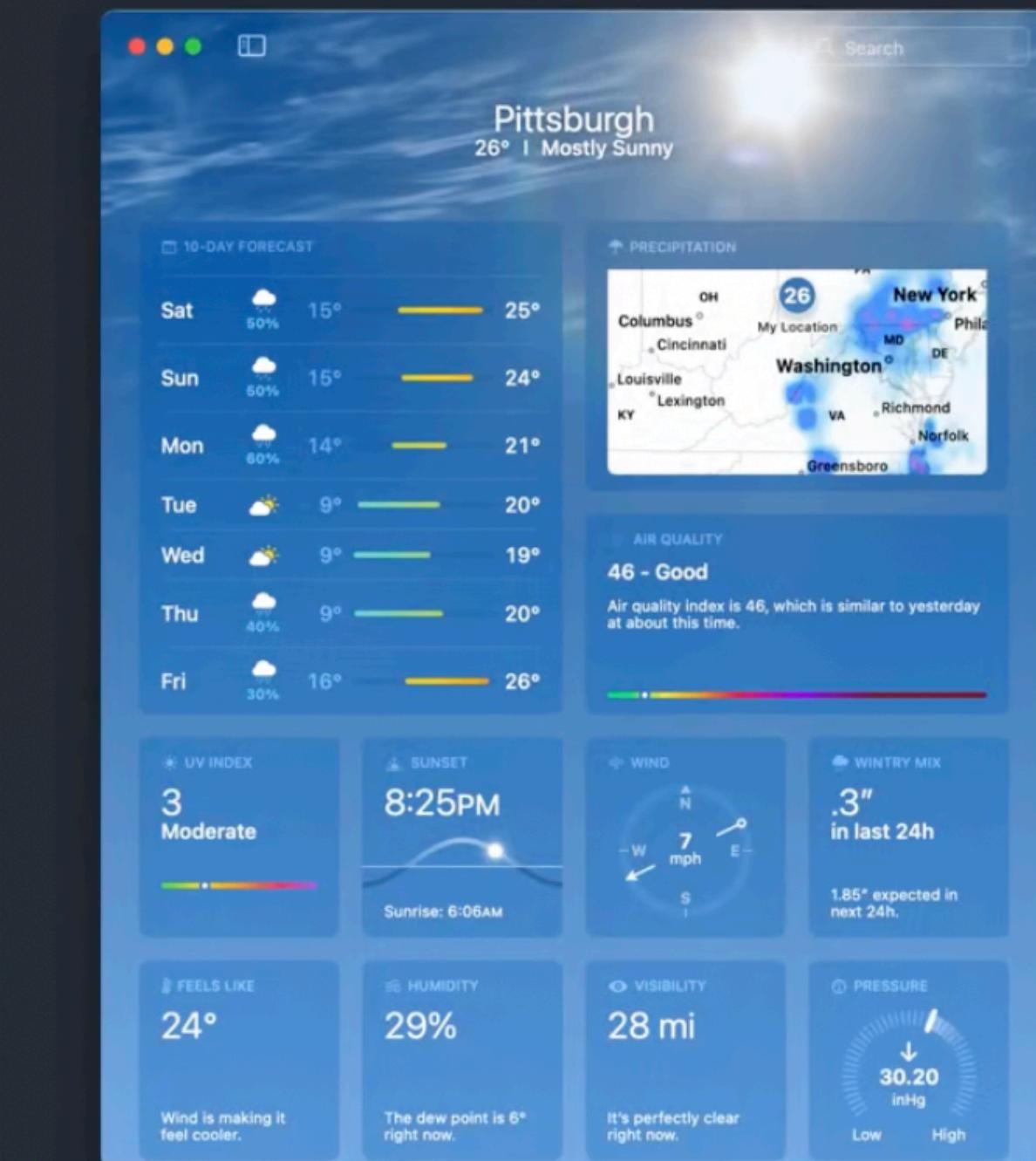
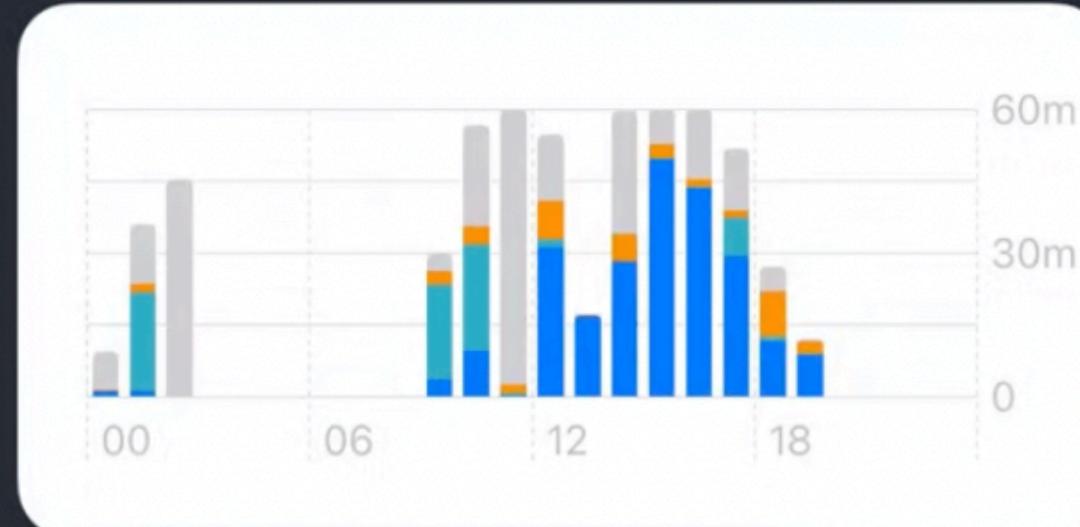
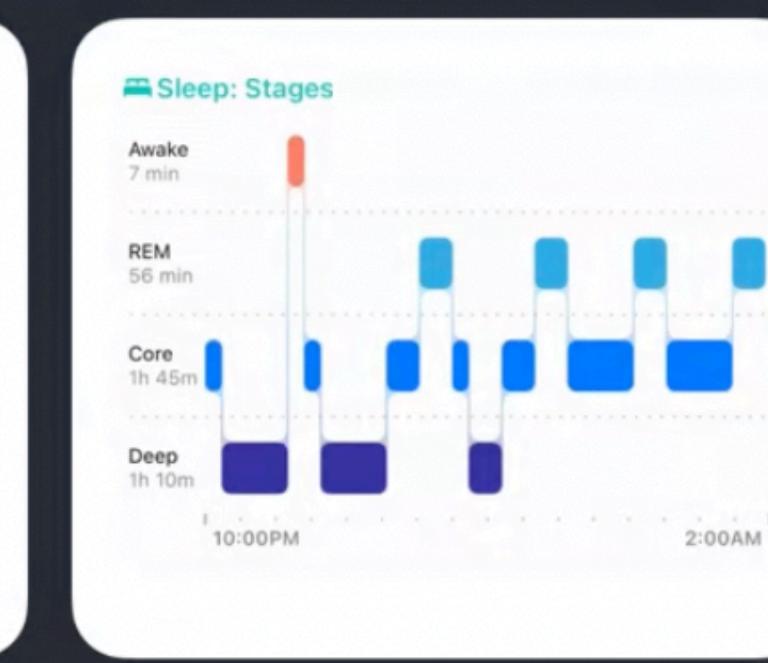
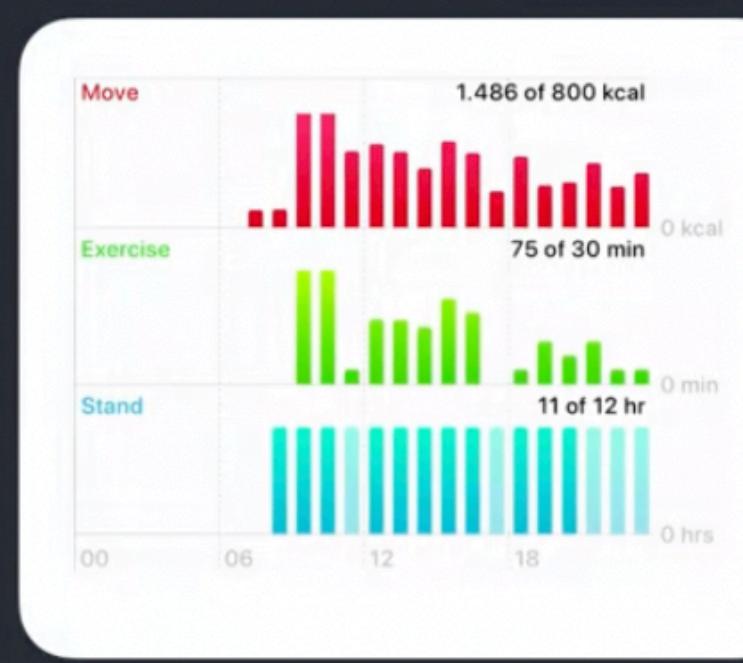
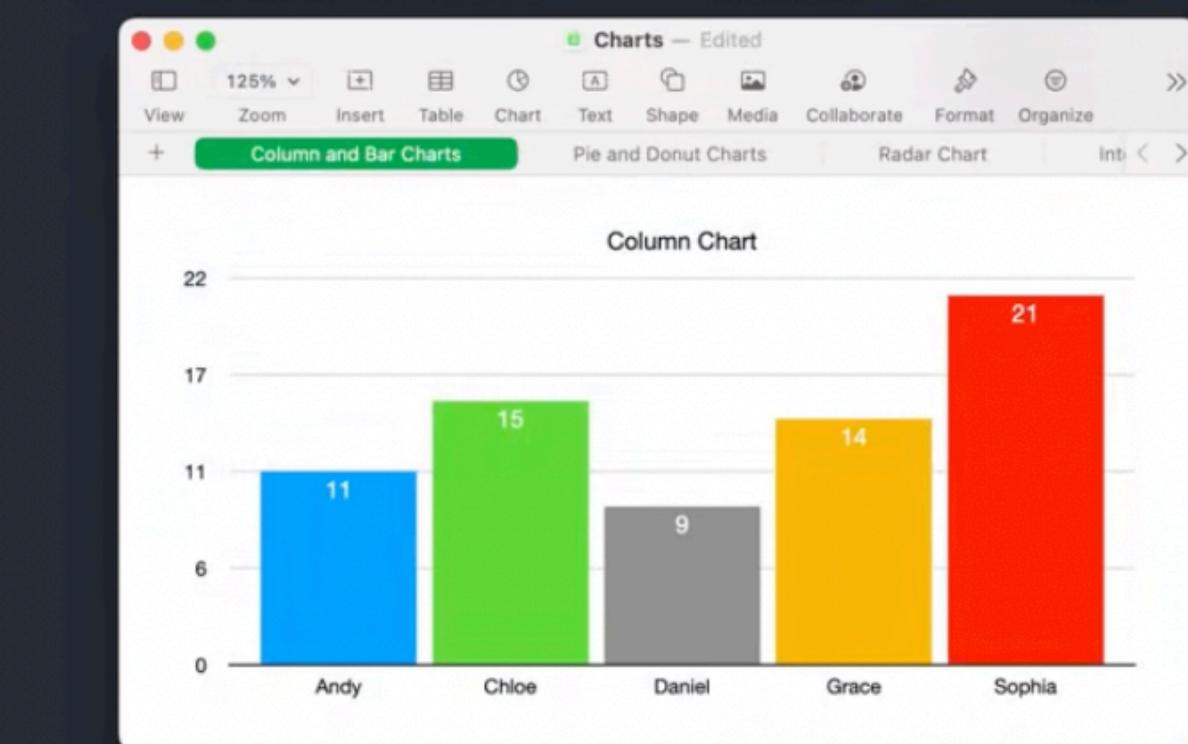
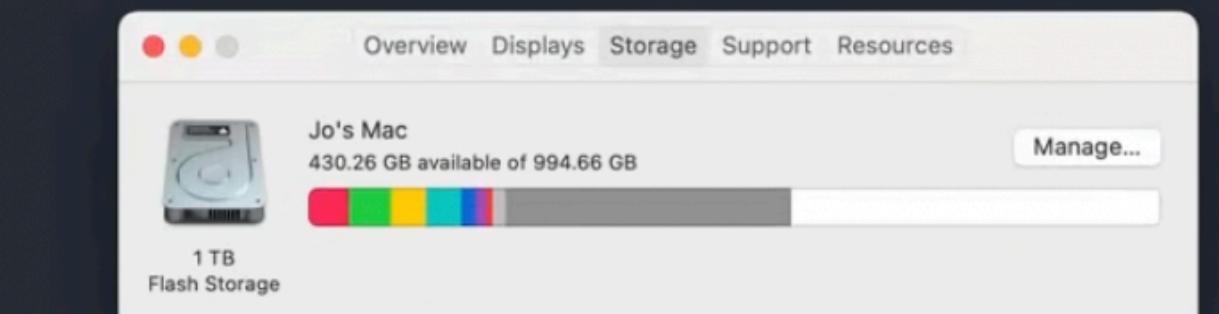
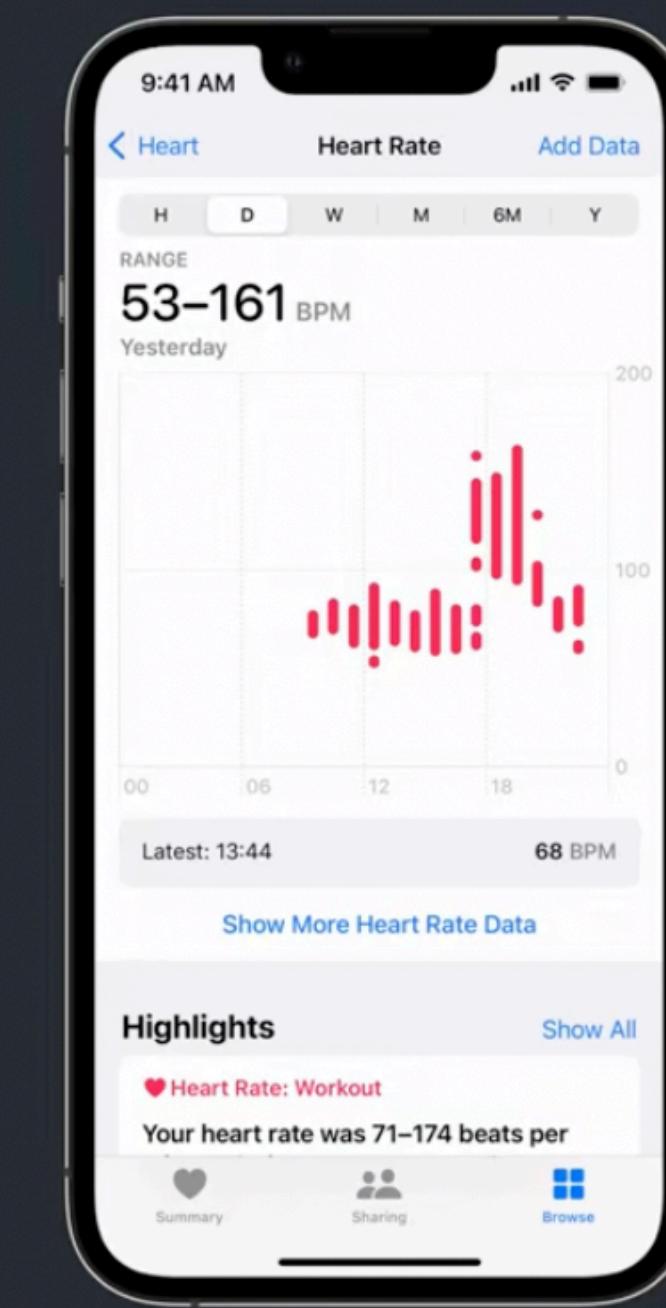
Demo



Dev Insights

- We used the new Charts framework by SwiftUI:
<https://developer.apple.com/documentation/charts>
- Makes data visualization in your apps easier to implement
- without any third-party library
- variety of chart styles (bar charts, line charts and many more ...)

```
Chart(lineGraphData) {  
    LineMark(  
        x: .value("hours", $0.time),  
        y: .value("temperature", $0.temperature)  
    )  
    .foregroundStyle(by: .value("Day", $0.day))  
}
```



Thank you