**Hackathon Brief — SkyCastNow Weather Platform**

# Background

SkyCastNow is a rapidly emerging weather-technology company that recently caught the attention of the tech world after their prototype app briefly climbed into the **Top 10 weather apps on the iOS market**.

The sudden burst of popularity exposed something important: although users loved the app's clean interface and accurate forecasts, the underlying platform was never built for the amount of attention it received.

At the same time, SkyCastNow is negotiating two major opportunities:

- becoming the default weather service inside a **major airline's passenger mobile app**, and
- providing live weather data for a fast-scaling **outdoor events platform** relied on by organizers worldwide.

Both potential partners loved the prototype — but questioned whether the platform could support **their audiences**, which are far larger and far more demanding than typical consumer use.

SkyCastNow has come to Endava with an urgent request.

# Your Mission

In **one working day**, take the existing weather prototype and prepare it for a **live demonstration** to SkyCastNow's potential partners.

The partners are expecting the platform to behave like something they could eventually adopt across their global products — not a fragile prototype.

During the demo, they will be paying attention to things like:

- How the system behaves during **busy hours**, when many users might check the weather at the same time.
- What happens when part of the system experiences unexpected issues.
- Whether the system can **continue offering a smooth experience** if one component misbehaves or becomes slow.

- Whether you can show them how the system is doing **at any given moment**, without guessing.
- How confident you are that the platform can grow with their user base.
- Whether your setup is something another engineer could understand and operate.

You decide how to achieve this.

You decide what "production-ready" should mean.

You decide what the architecture should look like.

SkyCastNow is not prescribing tools or approaches — they care about **results that inspire confidence**.

## What You're Given

- The current weather-app prototype (as provided by SkyCastNow's developers).
- Freedom to design the environment in any way you believe would impress enterprise partners.
- A short timeline: **the live partner demo is tomorrow**.
- Each team will be presenting their solution and **everyone in the team** will have to speak and answer questions.

**Important: Technical Deep Dive**

Alongside the business stakeholders, SkyCastNow will bring a **DevOps expert** to the final evaluation.

This expert will:

- ask for a **technical walkthrough** of your solution,
- challenge architectural choices,
- examine how your environment handles stress, unexpected conditions, and operational visibility,
- and evaluate whether another engineer could operate or extend your setup confidently.

This deep dive is not about tools — it's about **your understanding of real-world reliability and operational readiness**.

## What Will Happen in the Final Demo

Representatives from the airline and events platform will simulate realistic situations, such as:

- **Sudden temperature-checking surges** during storm predictions.
- **Unpredictable conditions** where parts of the system may temporarily misbehave.
- Requests to see **what the system is doing right now** and how you know it's operating correctly.
- Questions about how your setup would support their **much larger audiences**.

They won't dictate how you should solve these problems — but they expect you to demonstrate that you've considered them.

## Your Goal

Show that this prototype can be the foundation of a platform trusted by millions of travelers and event organizers.

The partners don't need perfection — they need to see that you understand the demands of a **real-world, high-pressure environment** and have prepared the prototype accordingly.

Your architecture, your choices, your definition of "ready."

Good luck — the forecast says heavy traffic is on the way. 🌦️