Jun 20,2025

JET SET GO -

*“Plan flights with insight — fares, timing, and the week’s weather.”*

| **PRD Section** | **Guiding Questions** |
| --- | --- |
| **1. Product name / tagline** | JET SET GO – “Plan flights with insight – fares, timing, and the week’s weather!” |
| **2. Problem statement** | **Travelers often need to visit multiple platforms to plan a trip — one to compare flight options and another to check weather at their destination. This fragmented experience wastes time and can lead to poorly informed decisions, like booking the cheapest flight to a destination with bad weather.**  We aim to solve this by **designing an app that consolidates flight search and destination weather insights into a single, seamless experience**, helping users quickly find the **cheapest and fastest itineraries** while also previewing the **7-day forecast** to make better travel decisions. |
| **3. Primary users & context** | Users would be frequent fliers, vacation planners, last minute travellers & digital nomads |
| **4. Key use cases / user stories** | 1. **🔹 Key Usage Scenarios** 2. **Quick Flight Planning**    * A user wants to find the **cheapest or fastest flight** for a trip next week. 3. **Weather-Aware Booking**    * A user wants to **compare weather forecasts** at the destination before confirming a flight. 4. **Flexible Traveler Discovery**    * A user is flexible on dates and wants to choose **based on good weather and affordable flights**. 5. **Return Trip Planning**    * A user wants to book a round trip and **check the weather for both outbound and return windows**. 6. **🔹 Core User Stories (MVP Focused)** 7. **🧍‍♂️ As a user, I want to:** 8. **[Flight Search]**    * …enter my origin, destination, and travel dates so I can see **the cheapest and fastest flight options**. 9. **[Flight Comparison]**    * …view and compare flight durations, layovers, and prices so I can **choose the best option for my needs**. 10. **[Weather Summary]**     * …see a **7-day weather forecast** for my destination during my travel dates so I can **plan and pack accordingly**. 11. **[Combined Results View]**     * …view both flights and weather in a **single interface** so I don’t have to switch between websites or apps. 12. **[Optional Return Trip]**     * …add a return date so I can plan **both legs of my journey**, including expected weather on the return.     \ |
| **5. Core features (v1)** | * **1.** * **Flight Search (Input & Results)** * Input: Origin, destination, outbound date (and optional return date). * Output:   + **Cheapest flight option**   + **Fastest flight option**   + **Details**: price, total duration, layovers (count and duration) * **2.** * **7-Day Weather Forecast** * Automatically fetches **weather data for the destination** during the selected date range. * Displays:   + Daily high/low temperatures   + Rain/cloud/sun conditions   + Icons or text summary (e.g., “Showers”, “Sunny”, “Cloudy”) * **3.** * **Combined Flight + Weather View** * Single screen showing:   + Flight options side-by-side with the **weather outlook**   + Helps users **make informed decisions quickly** * **4.** * **Optional: Gen-AI Trip Summary (Nice-to-Have)** * Short, AI-generated summary based on:   + Flight insights (e.g., “Cheapest option has a long layover”)   + Weather forecast (e.g., “Expect sunny skies — great for outdoor plans.”) * Purpose: Makes the experience feel intelligent and personal, but **can be deferred if needed**. |
| **6. Nice-to-haves / v1.1 ideas** | Maybe seat-map links, hotel search, calendar export, SMS alerts…? |
| **7. Non-functional requirements** | Response time target? Cost ceiling? GitHub CI badge must stay green? |
| **8. Success metrics** | What proves the demo “works”? (100% tests passing, generates itinerary under 5 s, etc.) |
| **9. Technical constraints** | Only public MCP servers, Python 3.12, fastmcp, no paid APIs, deployable on Fly.io? |
| **10. Timeline / milestones** | Two-week sprint? Deadline before you share on LinkedIn? |