NestMap - High Valuation Product Definition Requirements (PDR)

Version: 2.5+ | Goal: Position NestMap as a premium, AI-powered SaaS for remote-friendly trip planning

1. Product Summary

NestMap is an AI-powered, map-integrated itinerary planner that turns messy, real-world schedules into structured, navigable trips. Built for travelers, planners, creatives, and teams who want a clean, smart way to organize trips by time, location, and purpose.

2. Core Functionalities (Already Done)

- Multi-day itinerary builder

- AI Assistant: paste-to-trip importer

- Smart tags: category, time conflict, type

- Integrated map view with stop pins + route lines

- Conflict warnings + travel time calculations

- Responsive mobile layout with map toggle

- Tabbed UI (Itinerary / To-Do / Notes)

- Assistant actions: summarize, suggest, find food, etc.

3. Feature Additions for High Valuation

3.1. User Authentication + Trip Persistence

Goal: Let users log in and save, load, or duplicate trips

- Supabase Auth (email/password or social)

- users, trips, activities, notes, collaborators tables

- Basic dashboard with recent trip cards

3.2. Public Sharing + Exporting

Goal: Increase trip utility + viral growth

- Public URL (/trip/:id/share)

- PDF export of itinerary (with optional map snapshot)

- "Copy Link" and "Download PDF" actions

3.3. Collaboration & Comments

Goal: Planning tool for couples, friends, and teams

- Invite collaborators by email

- Assign trip items or to-dos

- Basic comment system per activity or note

3.4. Assistant Tier 2: Conversational AI

Goal: Let users talk to their trip

Use Cases:

- "Add breakfast to day 2 between 8-10 AM"

- "What's the best day to visit the High Line?"

- "Suggest activities near my hotel"

How: Use OpenAI function-calling + trip context

Bonus: Expose this as a floating chat or modal

3.5. Monetization-Ready Infrastructure

Goal: Add freemium gates + plan for payment

- Limit AI uses or export features without login

- Track trip count or assistant usage per user

- Stripe (or LemonSqueezy) integration for "NestMap Pro"

4. Design Goals

- Mobile-first planning: Smooth tab switching, large tap areas

- Clear category colors (non-blue): Earthy, citrus, or desert palette

- Assistant-first UX: It feels like a co-pilot

- Map-first navigation: Useful when on-location

- Export/share/print-ready: Polished, distributable output

5. Tech Stack

Frontend: React + Vite + Tailwind

Backend: Supabase (auth + data)

AI: OpenAI GPT-4 w/ function-calling

Maps: Mapbox (geocoding + routing)

Hosting: Replit + Vercel for production

Auth: Supabase

Payments: Stripe (planned)

6. Timeline to High-Valuation Readiness

Auth + trip save/load: 3-5 days

Share/export: 2-3 days

AI Assistant 2.0 (chat interface + contextual requests): 4-7 days

Freemium/paywall setup: 2-3 days

Mobile polish + deep links: 2 days

Total: ~14-20 dev days

7. Business Potential

Launch price: $49/year Pro

Free tier: 3 trips, 10 AI uses

CAC: $0 via shareable trips, link virality

Valuation floor: $75K (post-feature)

Max valuation (with revenue): $150K+ or investor-ready