

Product Requirements Document (PRD) - Globetrotter AI

Objective

Build an AI-powered travel planning website that uses natural language input (text messages) to generate real-time, personalized travel recommendations. These include flights, hotels, attractions, food recommendations, visa/health/travel requirements, seasonal highlights, local events, and alerts based on budget, weather, geopolitical factors, and GPS location.

Target Audience

- Solo travelers, families, business travelers
- Budget-conscious and luxury tourists
- Travel enthusiasts looking for recommendations and safety information
- International users with varying budgets, languages, and travel goals

Key Features

A. Natural Language Interface

- AI parses user input and identifies travel intent, location, time, and constraints.

B. Personalized Recommendations

- Flights: Based on budget, preferred airlines, layovers.
- Hotels: By rating, budget, location, guest feedback.
- Local Attractions: Landmarks, experiences, hidden gems.
- Seasonal Experiences: Festivals, weather-based attractions.
- Events: Concerts, exhibitions, real-time events.
- Food: Local dishes, street food, fine dining, dietary filters, culturally authentic experiences.
- Weather Awareness: Suggestions for adverse weather.
- Geo-political Alerts: Warnings and safety tips.

C. Budget Planning

- Categorized itineraries based on budget tiers.

D. GPS Assistance

- Live local guidance and emergency alerts.

E. Context Awareness

- Based on weather, seasons, events, and travel conditions.

F. Multilingual Support

- Auto-detect or allow language selection.

Non-Functional Requirements

- Performance: Sub-2 second response time
- Scalability: 1M+ multilingual users
- Security: GDPR, CCPA compliant
- Reliability: 99.9% uptime
- Accessibility: WCAG 2.1 compliant

Tech Stack Suggestions

Frontend: React / Next.js

Backend: Node.js / Python (FastAPI)

AI/NLP: OpenAI API or RAG with open-source LLMs

Geospatial: Mapbox or Google Maps

Weather: OpenWeatherMap

Flights/Hotels: Skyscanner, Amadeus

Events & Attractions: Eventbrite, TripAdvisor

Food: Yelp, Zomato, Google Places APIs

Database: PostgreSQL + PostGIS

Auth: OAuth2.0

Hosting: Vercel + AWS/GCP

Success Metrics

- First response in <10s
- >=80% satisfaction with suggestions
- >10K MAUs in 6 months
- NPS >= 45
- Drop-off rate < 25%
- 40%+ conversion to saved trips

Future Enhancements

- Voice Assistant
- Trip collaboration
- AI itinerary optimizer
- Travel insurance/eVisa integration
- Loyalty rewards integration