



\* Smart Traveler

# Smart Traveler — MVP

Hamad Dahash (PM), Suhail Alaboud  
(Implementation Lead)

# Problem & Purpose

Understanding the travel planning challenges

## Fragmented Information

Travelers often face **fragmented information** across multiple sources, making it difficult to gather all necessary details for a cohesive trip plan.

## Time-Consuming Research

The **time-consuming research** involved in compiling itineraries can lead to frustration, leaving travelers overwhelmed and unsure about their spending and choices.



# MVP Scope

## Inputs and Outputs Defined

### Inputs

The inputs for Smart Traveler include **destination**, **duration**, **budget**, styles, language, and email. These variables help tailor the travel experience to user preferences and requirements.

### Outputs

The outputs consist of an **itinerary** that includes a cost donut, safety and practical tips, and an HTML email delivery. Each output is designed to enhance user satisfaction.

### User Experience

By defining these inputs and outputs, Smart Traveler ensures a seamless user experience that provides personalized travel plans while keeping costs and preferences in mind.



# Process Summary

## Stage 1



Assembling the team and brainstorming ideas together.

## Stage 2



Creating the project charter to define the scope.

## Stage 3



Documenting technical requirements and essential architecture.

## Stage 4



Conducting sprints and quality assurance for final checks.



# Architecture Overview

## Streamlit UI as the user interface

Provides a **user-friendly** way to interact.

## Prompt Orchestrator for request handling

Manages and organizes requests for the system.

## Groq Llama for AI processing

Powers the **intelligent** itinerary generation process.



# Key Technical Decisions

## LLM

We chose LLM for **structured data management** throughout the process.

## HTML Email

HTML format enhances **user engagement** compared to traditional PDFs.

## SerpAPI

SerpAPI provides **real-time, reliable links** for users' itineraries.

## Markdown

Markdown allows for **safe and efficient HTML conversion** in outputs.



# Live Demo Overview



## Destination

Explore Istanbul's vibrant culture and history.



## Duration

Enjoy a comprehensive 5-day travel itinerary.



## Cuisine

Experience the rich flavors of local dishes.



# Results & Metrics

Proving the effectiveness of our MVP

## MVP Success

The MVP achieved a **100% success rate** in generating travel itineraries, showcasing its reliability and accuracy in meeting user needs and expectations throughout the testing phase.

## Generation Time

Our average generation time for itineraries was an impressive **4 seconds**, demonstrating the system's efficiency and speed in delivering personalized travel plans to users quickly.

## Email Success

We recorded a **100% success rate** for email delivery, ensuring that all users received their itineraries reliably via HTML email, enhancing accessibility and user experience.



# Lessons Learned



## Email UX

**Enhanced user engagement** through a streamlined email interface.

## Cost Formats

Addressed different **currency formats** to enhance user clarity.

## Modular Prompting

**Improved flexibility** by adapting prompts for various scenarios.

## Link Quality

Prioritized high-quality links to build user trust.

## Link Normalization

Ensured consistent formatting of links across platforms.

## Email Clients

Navigated challenges with **varying email client capabilities** successfully.



# Risks & Next Steps

Addressing challenges while planning ahead

## API Dependency

Our system's functionality relies heavily on third-party APIs, which poses a risk of disruptions if these services experience downtime or changes in their usage policies.

## Rate Limits

Adhering to API rate limits is crucial for maintaining performance. Exceeding these limits can lead to service interruptions that affect user experience and system reliability.

## Variance

Variability in data quality from different sources can impact the accuracy of itineraries. Consistent monitoring and validation are necessary to ensure reliable results for users.



# Q&A and Contact Information

Email

**hello@reallygreatsite.com**

---

Social Media

**@reallygreatsite.com**

---

Phone

**123-456-7890**