

Initial Project Planning Report

Date	28-01-2026
Team ID	LTVIP2026TMIDS26163
Project Name	Explore with AI: Custom Itineraries for Your Next Journey
Maximum Marks	4 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	Requirement Analysis & Setup	AI-1	Understanding project scope and features	High	Gandi Rajesh	29/01/2026	04/02/2026
Sprint-1	Requirement Analysis & Setup	AI-2	Setting up development environment	High	Gandi Rajesh	29/01/2026	04/02/2026
Sprint-1	Requirement Analysis & Setup	AI-3	Researching AI itinerary generation approach	Medium	Gandi Rajesh	29/01/2026	04/02/2026
Sprint-2	AI Model Integration	AI-4	Connecting Generative AI API	High	Gandi Rajesh	05/02/2026	10/02/2026
Sprint-2	AI Model Integration	AI-5	Designing prompt structure for itinerary	High	Gandi Rajesh	05/02/2026	10/02/2026
Sprint-2	AI Model Integration	AI-6	Testing AI-generated responses	Medium	Gandi Rajesh	05/02/2026	10/02/2026

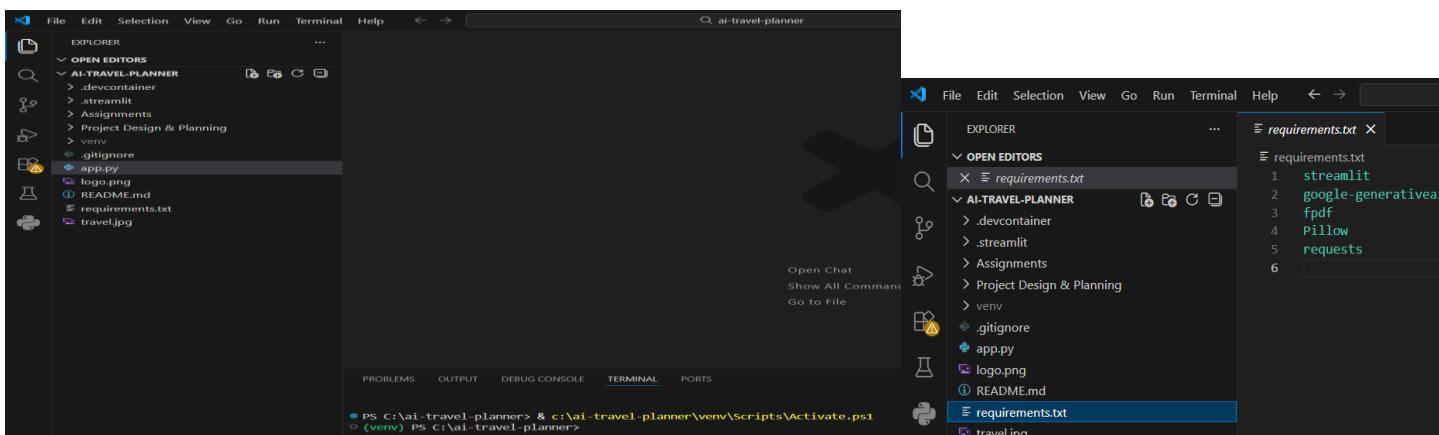
Sprint-3	Web Application Development	AI-7	Designing Streamlit UI	High	Gandi Rajesh	11/02/2026	15/02/2026
Sprint-3	Web Application Development	AI-8	Taking user inputs (destination, days, nights)	High	Gandi Rajesh	11/02/2026	15/02/2026
Sprint-3	Web Application Development	AI-9	Displaying generated itinerary	Medium	Gandi Rajesh	11/02/2026	15/02/2026
Sprint-4	Additional Features & Deployment	AI-10	Generating downloadable PDF itinerary	Medium	Gandi Rajesh	16/02/2026	19/02/2026
Sprint-4	Additional Features & Deployment	AI-11	Adding travel images via API	Low	Gandi Rajesh	16/02/2026	19/02/2026
Sprint-4	Additional Features & Deployment	AI-12	Final testing and bug fixing	High	Gandi Rajesh	16/02/2026	19/02/2026

Sprint Explanation

Sprint 1 – Requirement Analysis & Setup

In this sprint, the project idea was finalized and the required technologies were identified. The development environment was set up, including installing Python, Streamlit, and required libraries. Research was conducted on how generative AI can be used to create travel itineraries.

Screenshot:



□ Sprint 2 – AI Model Integration

This sprint focused on integrating the Generative AI model into the project. The API key was configured, prompts were designed to generate structured itineraries, and responses were tested for accuracy and formatting.

Screenshot:

The image shows two side-by-side code editors, both displaying the same file: `app.py`. The top editor is in a dark-themed IDE, and the bottom editor is in a light-themed terminal window. Both files contain Python code for generating travel itineraries using a generative AI model.

```
File Edit Selection View Go Run Terminal Help ← → ai-travel-planner
EXPLORER OPEN EDITORS app.py > ...
AI-TRAVEL-PLANNER .devcontainer .streamlit Assignments Project Design & Planning venv .gitignore logo.png README.md requirements.txt travel.jpg
app.py
# ----- GEMINI CONFIG -----
genai.configure(api_key=st.secrets["GEMINI_API_KEY"])
UNSPLASH_KEY = st.secrets["UNSPLASH_ACCESS_KEY"]

model = genai.GenerativeModel(
    "gemini-flash-latest",
    generation_config={
        "temperature": 0.4,
        "top_p": 0.9,
        "top_k": 40,
        "max_output_tokens": 4600,
    }
)
def build_prompt(dest, days, nights):
    # ...
    Paragraph.
    Night:
    Paragraph.
    Repeat for all {days} days.
    Then provide:
    Travel Tips:
    • Tip 1
    • Tip 2
    • Tip 3
    Food Recommendations:
    • Dish 1
    • Dish 2
    • Dish 3
    Hotel/Stay Suggestions:
    • Hotel 1
    • Hotel 2
    • Hotel 3
    ...
    return f"""

Create a detailed {days}-day {nights}-night travel itinerary for {dest}.
STRICT FORMAT RULES:
Day 1 Title
Morning:
Paragraph.
Afternoon:
Paragraph.
Evening:
Paragraph.
Night:
Paragraph.
Repeat for all {days} days.
Then provide:

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

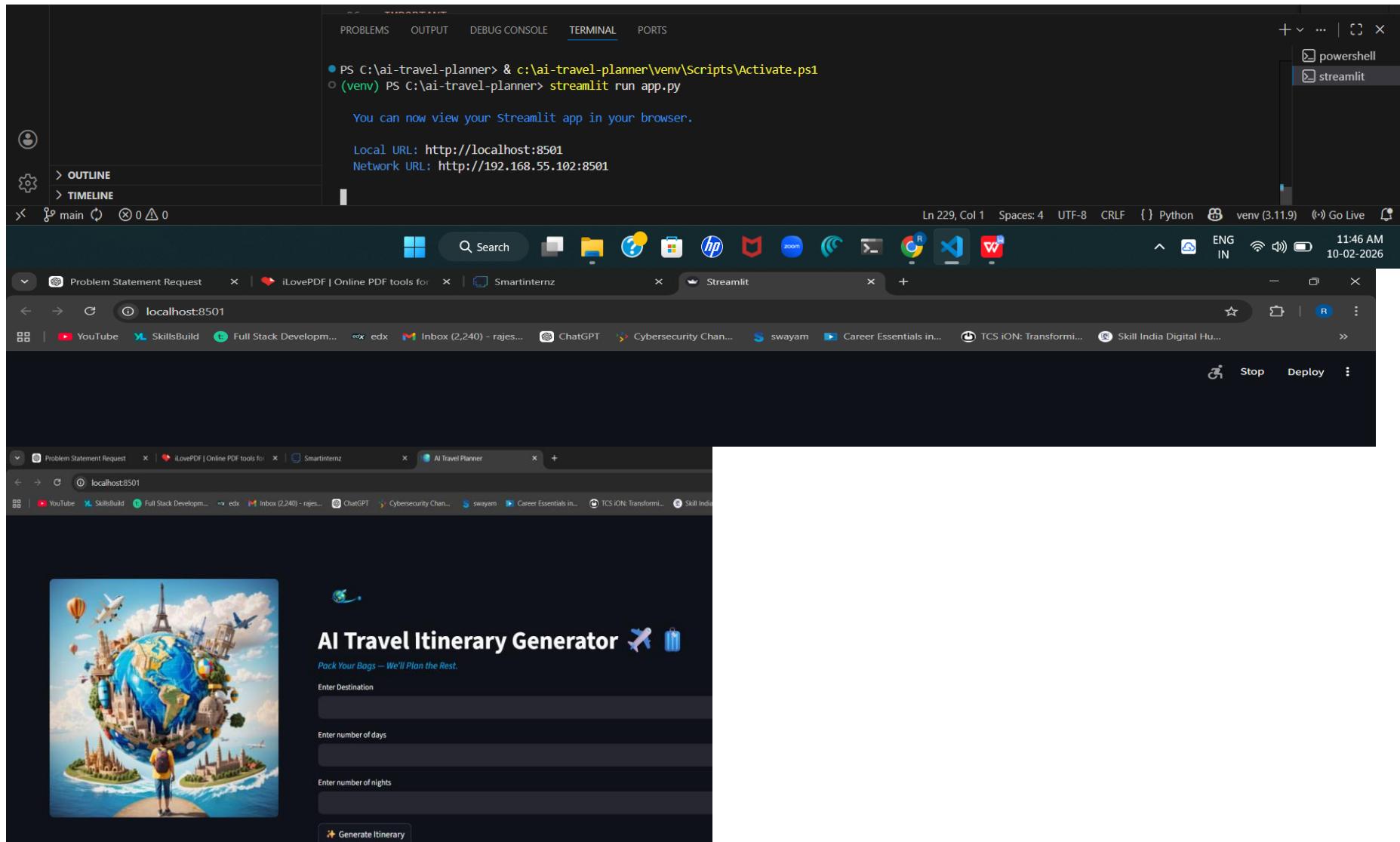
PS C:\ai-travel-planner> & c:\ai-travel-planner\venv\Scripts\Activate.ps1
c:\venv PS C:\ai-travel-planner>

The code defines a function `build_prompt` that generates a travel itinerary. It includes sections for Day 1 Title, Morning, Afternoon, Evening, and Night. It also includes sections for Travel Tips, Food Recommendations, and Hotel/Stay Suggestions. The generated text is formatted with strict rules for readability.

□ Sprint 3 – Web Application Development

During this sprint, the Streamlit-based user interface was developed. Input fields for destination, days, and nights were added, and the AI-generated itinerary was displayed dynamically on the webpage.

Screenshot:



□ Sprint 4 – Additional Features & Deployment

This sprint included generating a downloadable PDF of the itinerary, adding travel images using an API, and performing final testing. The application was refined for better user experience and stability.

Screenshot:

The screenshot shows a web browser window titled "AI Travel Planner" with the URL "localhost:8501". The page displays a "Generated Itinerary" for a trip. At the top, there is a button labeled "Download Itinerary as PDF". The itinerary is divided into two sections: "Day 1 Colonial Charms and Coastal Views" and "Day 2 Island Caves and Heritage Landmarks". Each section contains a list of activities with icons and descriptions. The browser's address bar shows "localhost:8501" and the tab bar includes links to YouTube, SkillsBuild, Full Stack Develop..., edX, ChatGPT, Cybersecurity Chan..., swayam, Career Essentials in..., TCS iON: Transform..., Skill India Digital Hu...".

Generated Itinerary

Day 1 Colonial Charms and Coastal Views

- Morning: Start your Mumbai journey at the iconic Gateway of India, an arch-monument built during the British Raj. Right across from it stands the majestic Taj Mahal Palace Hotel, where you can admire the stunning architecture and historic grandeur. Take a slow walk around the promenade to soak in the sea breeze and watch the pigeons gather in the plaza before the daytime crowds arrive.
- Afternoon: Head over to the Kala Ghoda Art Precinct, which serves as the cultural hub of the city. Spend a few hours exploring the Chhatrapati Shivaji Maharaj Vastu Sangrahalaya museum, which houses a vast collection of ancient Indian artifacts and natural history exhibits. Afterward, wander through the nearby art galleries and enjoy a quiet lunch at one of the boutique cafes tucked away in the heritage buildings.
- Evening: Make your way to Marine Drive, famously known as the Queens Necklace because of its curved shape and sparkling lights. As the sun begins to set, join the locals sitting on the promenade wall to watch the sky turn shades of pink and orange over the Arabian Sea. The curve of the bay lights up beautifully as evening falls, creating a magical atmosphere perfect for a long, leisurely stroll.
- Night: Conclude your first day with a visit to Colaba Causeway for some late-night shopping and dining. Visit the legendary Leopold Cafe or Cafe Mondegar for a lively atmosphere and a mix of global and local cuisines. The streets remain vibrant well into the night, offering a true taste of the energetic nightlife that defines South Mumbai.

Day 2 Island Caves and Heritage Landmarks

- Morning: Board a ferry from the Gateway of India for a one-hour boat ride to the Elephanta Caves located on Gharapuri Island. These UNESCO World Heritage sites feature rock-cut stone sculptures dedicated to Lord Shiva dating back to the 5th century. Exploring the intricate carvings and massive pillars provides a peaceful escape from the city and a deep dive into ancient Indian history.
- Afternoon: Return to the mainland and head toward the Chhatrapati Shivaji Terminus, a stunning example of Victorian Gothic Revival architecture and a functional railway station. Marvel at the intricate stone carvings, gargoyles, and stained glass that decorate this historic landmark. Nearby, you can also view the grand Bombay Municipal Corporation building and the historic Flora Fountain in the heart of the business district.
- Evening: Visit Mani Bhavan, the former residence of Mahatma Gandhi, which now serves as a poignant museum and library dedicated to his life and work. Afterward, take a short taxi ride to the Mahalaxmi Dhobi Ghat, the largest open-air laundry in the world. Watching the dhobis work in perfect synchronization amidst rows of hanging clothes is a unique and fascinating sight that captures the city's industrious spirit.

localhost:8501

Buy Markets and Spiritual Journeys

Morning: Begin your final day at the Haji Ali Dargah, a beautiful mosque and tomb located on an islet off the coast of Worli. Accessible only during low tide via a narrow causeway, it is a place of great spiritual significance and architectural beauty. Afterward, visit the nearby Mahalaxmi Temple, dedicated to the goddess of wealth, to witness the morning prayers and vibrant flower markets.

Afternoon: Dive into the chaotic and colorful world of traditional markets in South Mumbai. Start at Crawford Market for fruits, spices, and household goods, then move toward Mangaldas Market for exquisite textiles and fabrics. If you are looking for antiques or unique curios, a quick trip to Chor Bazaar, known as the Thieves Market, offers an unforgettable shopping experience.

Evening: Take a drive across the Bandra-Worli Sea Link, an architectural marvel that connects the two parts of the city over the Arabian Sea. Head to the Worli Sea Face to enjoy the view of the bridge from a distance as the lights come on. It is a great spot to reflect on your trip while watching the waves crash against the promenade rocks.

Night: For your final dinner, head to the refurbished mill compounds of Lower Parel, such as Kamala Mills or Mathuradas Mill. These areas have been transformed into luxury dining and entertainment hubs featuring some of the best restaurants in the country. Toast to your Mumbai adventure at a rooftop bar with a view of the city skyline before heading to the airport.

Travel Tips: • Use the local trains during off-peak hours between 11 AM and 4 PM to experience the city's lifeline without the extreme rush. • Download a ride-sharing app like Uber or Ola for reliable transport, or use the iconic black and yellow taxis which always run on meter. • Carry a reusable water bottle and stay hydrated throughout the day, as the humidity in Mumbai can be quite intense regardless of the season.

Food Recommendations: • Vada Pav, the ultimate Mumbai street food consisting of a spicy potato fritter inside a soft bread bun with garlic chutney. • Pav Bhaji, a thick and spicy vegetable curry served with heavily buttered bread rolls, best enjoyed at local stalls. • Bombay Sandwich, a unique toasted sandwich filled with thin slices of vegetables, mint chutney, and a special spice mix.

Hotel/Stay Suggestions: • The Taj Mahal Palace in Colaba for a luxury heritage experience right by the sea and the Gateway of India. • Trident Nariman Point for stunning views of the Queen's Necklace and excellent service in the heart of the business district. • Bloom Hotel in Juhu for a modern, bright, and mid-range stay that is close to the beach and the international airport.

[Download Itinerary as PDF](#)

localhost:8501

Pack Your Bags — We'll Plan the Rest.

AI Travel Itinerary Generator   

Enter Destination

Enter number of days

Enter number of nights

 Generate Itinerary

