

Building a Python Itinerary Generator with AI and Location Scraping

Create a dynamic trip planner using Python, AI, and web scraping.

Based on [Building A Python Itinerary Generator With Ai And Location Scraping Cursor Gemini 2 5 Flash](#) by Casey Builds It

Step 1: Define Core Features

Start by defining the essential features for the itinerary generator, including date selection, party composition (adults, kids, dogs), budget preferences, custom activity requests, and PDF export.

- Feed reference material from an existing itinerary feature into Cursor as an example.
- Define features conversationally with an LLM.



Step 2: Set Up Development Environment

Utilize Cursor with an LLM like Google Gemini 2.5 Flash for real-time coding, testing, and debugging.



Step 3: Implement Dynamic Location Scraping

Develop the tool to pull location-based ideas on the fly from free sources such as OpenStreetMap, Wikipedia, and DuckDuckGo, instead of relying on pre-scraped content.

- Compare free scraping methods against paid options like the Google Places API.



Step 4: Build the Itinerary Generation Logic

Integrate the scraped location data with user inputs (dates, party size, budget, activities) to generate a structured itinerary.



Step 5: Test with Multiple Locations

Test the itinerary generator against various locations, including those with potentially ambiguous or duplicate place names, to identify and address weaknesses.

- Use Colorado Springs and Portland, Maine as initial test cases.



Step 6: Debug and Refine

Address any issues encountered during testing, such as broken location scrapes or API performance, and refine the tool's functionality.

- Compare API costs (e.g., Gemini Flash vs. Claude) for scalability.



Step 7: Explore Future Enhancements

Consider potential upgrades like integrating weather APIs, GPS-based distance filtering, event APIs, and database caching for future development.

- Caching can set the stage for turning the script into a full web application.

Resources & Further Reading

Related guides for this process:

■ Build a Python Itinerary Generator (Action Sheet)

<https://storage.googleapis.com/casey-builds-it-checklists-20260730-06c7a0/casey-builds-it/Action%20Sheet/building-a-python-itinerary-generator-with-ai-and-location-scraping-cursor-gemin-action-sheet.pdf>

■ Questions to Ask Before Building Your Own AI Itinerary Generator

<https://storage.googleapis.com/casey-builds-it-checklists-20260727-d45d2a/casey-builds-it/Questions%20to%20Ask/building-a-python-itinerary-generator-with-ai-and-location-scraping-cursor-gemin-questions-to-ask.pdf>

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Scrappy, free-data approaches can yield usable itineraries with AI assistance.