Roadmap: Python Itinerary Generator Build

From concept to functional itinerary planner using 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

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Phase 1: Concept and Core Feature Definition

- Define the goal: a standalone Python itinerary planner.
- Identify core features: date selection, party composition, budget, custom activities, PDF export.
- Leverage existing itinerary feature as reference material.
- Utilize Cursor and Gemini 2.5 Flash for conversational feature definition.

Phase 2: Data Sourcing Strategy

- Prioritize dynamic data pulling over static databases.
- Explore free data sources: OpenStreetMap, Wikipedia, DuckDuckGo.
- Investigate paid API alternatives like Google Places API for comparison.

Phase 3: Initial Build and Scaffolding

- Set up the basic Python script structure.
- Implement core feature scaffolding based on defined requirements.
- Integrate initial AI assistance for code generation and guidance.

Phase 4: Location Scraping Implementation

- Develop modules to scrape location data from chosen free sources.
- Test scraping against real-world locations.
- Address challenges with ambiguous or duplicate place names.

Phase 5: Testing and Debugging

- Conduct live testing with initial location cases (e.g., Colorado Springs).
- Identify and debug broken location scrapes.
- Compare performance and cost of free vs. paid scraping methods.

Phase 6: AI Model Cost Analysis

- Compare Gemini Flash costs against alternatives like Claude for the workload.

- Evaluate API pricing implications for scaling the tool.

Phase 7: Future Enhancements Planning

- Brainstorm integration of Weather APIs for smarter planning.
- Consider GPS-based distance filtering for realistic suggestions.
- Explore Event APIs for local happenings.
- Plan for database caching to enable web application development.

Resources & Further Reading

Related guides for this timeline:

Build a Python Itinerary Generator (Action Sheet)

https://storage.googleapis.com/casey-builds-it-checklists-20260730-ebab2c/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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Prototyping with AI and free data sources can create a functional itinerary planner.