



Al for a better tomorrow

Team Details

- a. Team name: BusyCoder
- b. Team leader name: An-Syu Li, Yin-Fan Chao
- c. Problem Statement: Tourism Recommender & Budget Saving Systems: TravelPlan Al





Brief about your solution

- II Custom Itinerary: Personalized travel plans based on user preferences.
- 💰 Cost Estimates: Real-time pricing for meals, lodging, transport, and activities via Gemini API.
- © Eco-friendly Options: Carbon footprint analysis for sustainable travel choices.
- **User Interface**: Simple, intuitive design with Flask, HTML/CSS, and JavaScript.
- Future Plans: User accounts, PDF downloads, and expanded travel options.



1. How different is it from any of the other existing ideas?

- 🗓 Personalization: Offers highly tailored itineraries based on user preferences.
- Real-Time Data: Uses Gemini API for up-to-date pricing and travel options.
- Cost Efficiency: Focuses on providing the most cost-effective travel solutions.
- **Additional Feature**: PDF Download for Convenient Offline Use



2. How will it be able to solve the problem?

Saves Time:

Quickly generates detailed itineraries with all travel components.

Informed Decisions:

Helps users make smart choices with cost breakdowns and recommendations.

All-in-One Solution:

Covers meals, lodging, transport, and activities in one platform.





3. USP of the proposed solution:

Cost Optimization:

Generates personalized itineraries for budget efficiency, covering costs for meals, lodging, transport, and activities.

Real-Time Smart Recommendations:

Uses Google Gemini API for up-to-date, user-specific suggestions, adjusting activities by interests.

Enhanced All-in-One Experience:

Provides comprehensive planning with daily activities and budgets, downloadable as a PDF for offline use, minimizing platform switching.





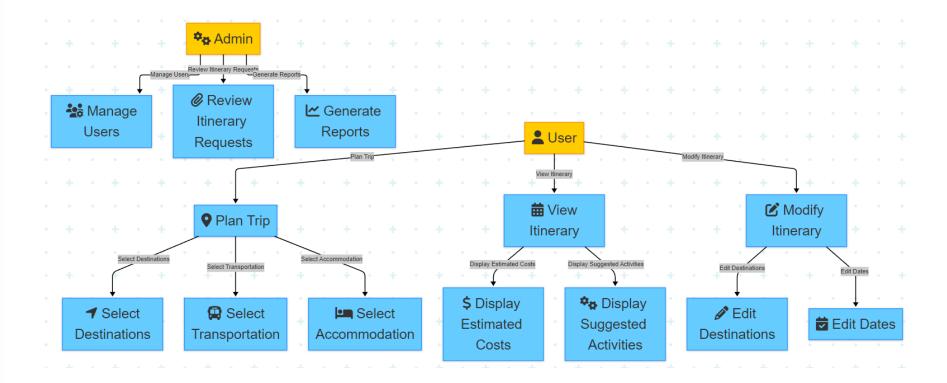
List of features offered by the solution

- | Personalized Itinerary: Custom travel plans based on user preferences.
- 💰 Cost Estimation: Real-time pricing for meals, lodging, transport, and activities.
- Real-Time Data Integration: Uses Gemini API for up-to-date travel options.
- 🛌 Accommodation Suggestions: Recommends hotels and stays based on budget and location.
- Itinerary Download: Option to download the itinerary as a PDF.





Process flow diagram or Use-case diagram



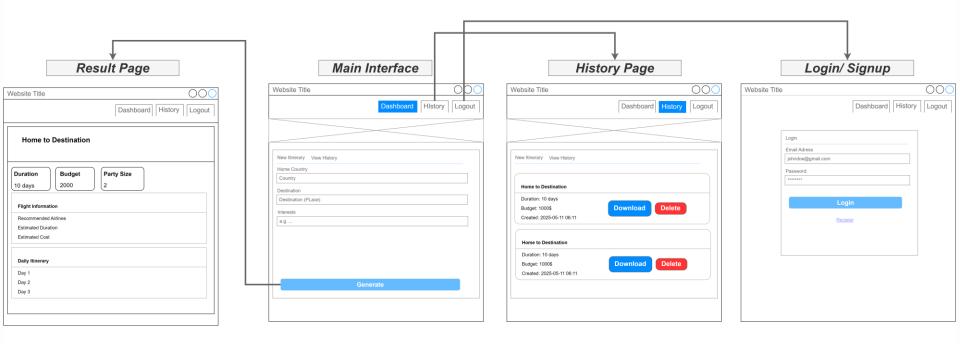








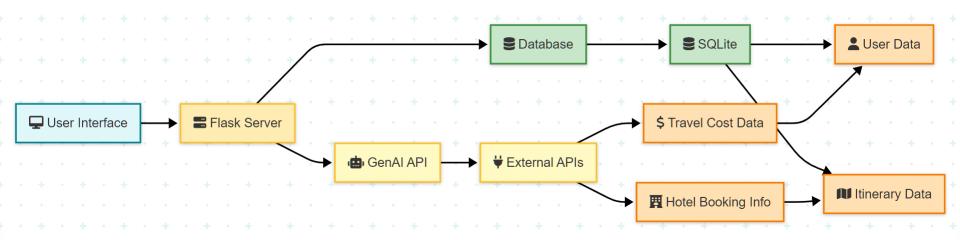
Wireframes/Mock diagrams of the proposed solution







Architecture diagram of the proposed solution







Technologies to be used in the solution

(Mandatory to integrate Gemini APIs)

- Flask: Web framework for building the backend of the application.
- **Gemini API**: Real-time data integration for travel pricing, lodging, and activity suggestions.
- SQLite: Database for user account management and saving itineraries (future feature).
- HTML/CSS/JavaScript: Frontend technologies for creating the user interface.

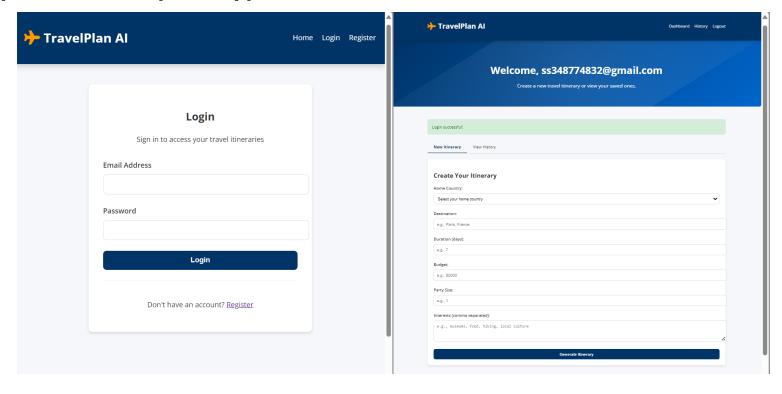








Snapshots of the prototype



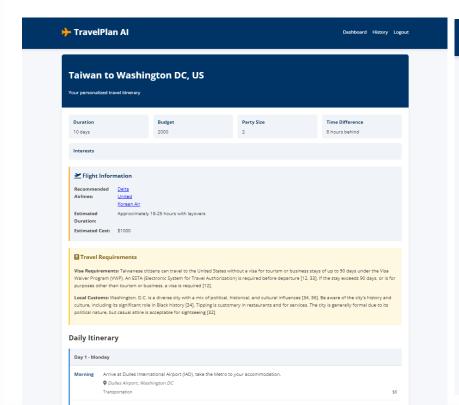


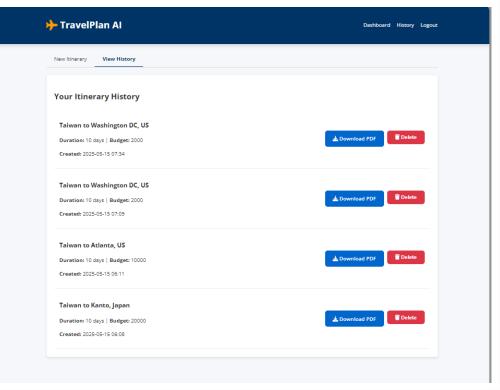






Snapshots of the prototype







Additional Details/Future Development (if any)

Carbon Footprint Estimate:

For environmental concerns and to find solutions to cut back.

Added Must-Visit Cities Feature:

Ensure the system mandatorily generates a plan including the city or attraction specified by the user.

Add Multi-Country Travel Planning Feature:

Enable the system to generate multi-country travel plans.

Added Coordinates Information:

Easier for users to track locations

Ratings and Reviews from Online Platforms or Forums:

to give users a basic idea of the destinations and suggestions.

Historical Itinerary Adjustment:

Customizes travel plans for registered users by leveraging their historical itinerary data.





Provide links to your:

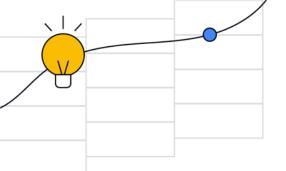
1. Demo video link (3 minutes):

https://www.youtube.com/watch?v=8zmszxsehj4&feature=youtu.be

2. Working prototype link:

https://solutionchallengetravelplannervalidkey-849435182118.asia-

east1.run.app/











Solution Challenge





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