

Trippy: AI-Powered Travel Planning Platform

Introduction:

Planning a trip can often be overwhelming, especially when it involves multiple destinations, accommodations, and transportation modes. Trippy is an innovative travel platform built to address these challenges by using Artificial Intelligence and modern web technologies. Our vision is to provide a one-stop solution for personalized itinerary generation, seamless booking, user reviews, and a dashboard for managing travel plans. Whether it's a family vacation, a solo adventure, or a group trip, Trippy is your AI-powered travel companion.

Technology Used:

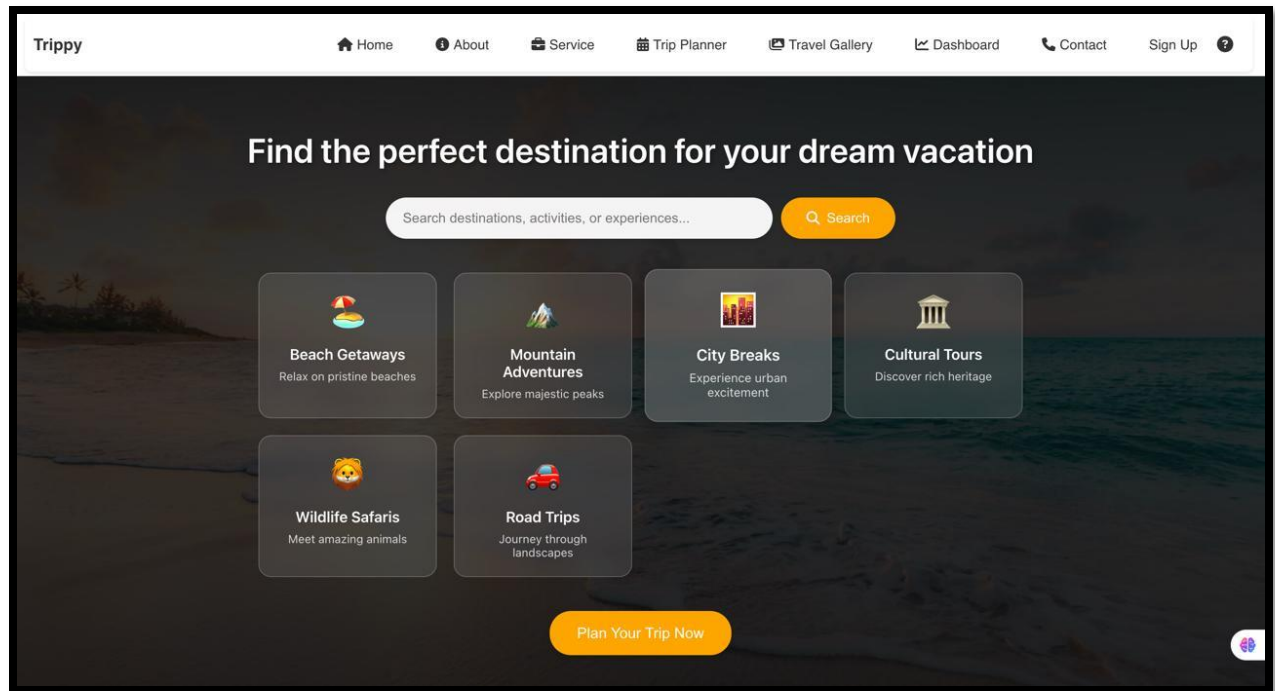
Frontend:

- **ReactJS:** For building an interactive and responsive user interface.

Backend:

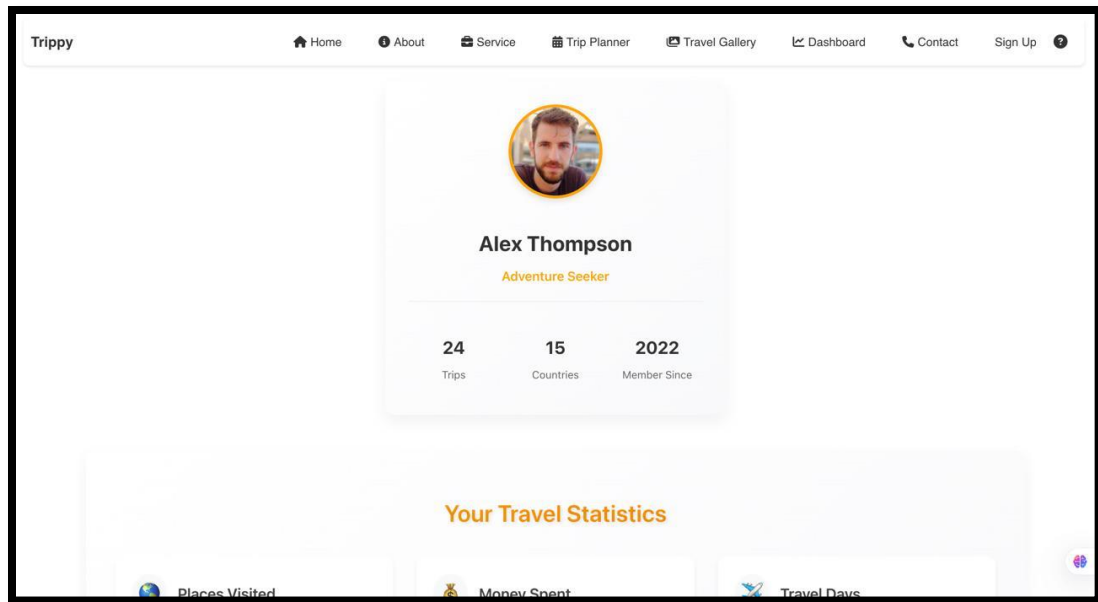
- **MongoDB:** For storing user data, travel plans, bookings, and reviews.
- **OpenAI (GPT-4 or fine-tuned model):** For generating AI-based travel itineraries.
- **Skyscanner API :** For real-time search and mock booking of flights, trains, and hotels.

Workflow with Explanation and screenshots:



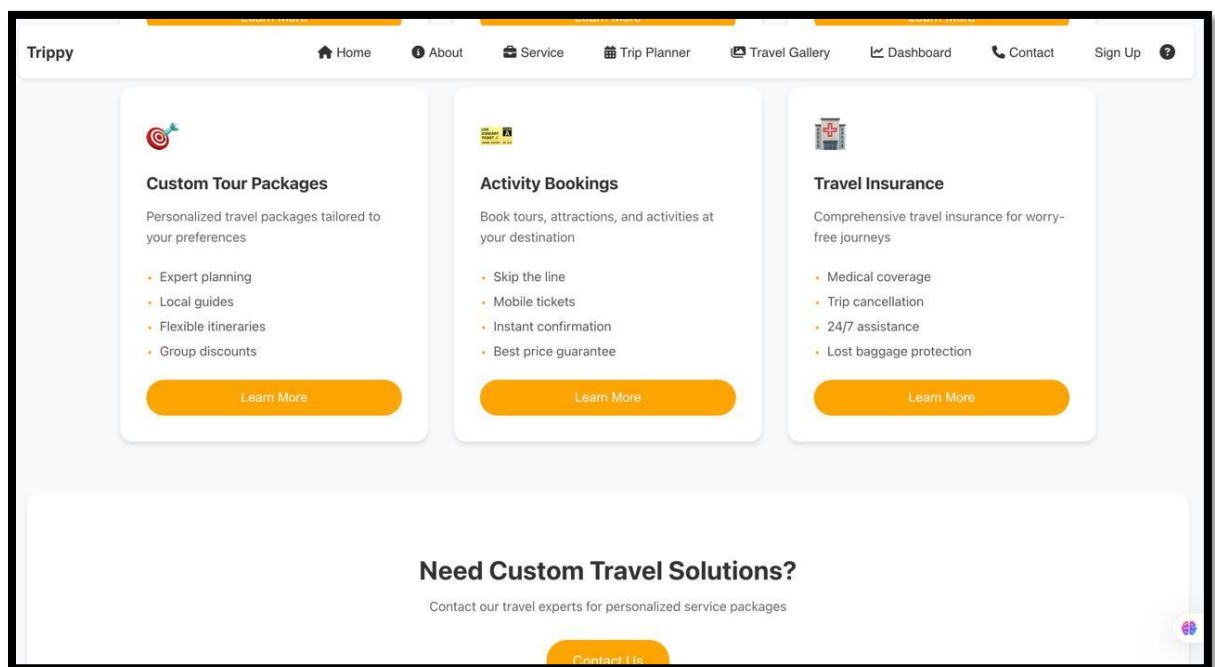
1. User Onboarding:

- a. Users can sign up using their email or social media accounts.
This is handled using Passport.js.



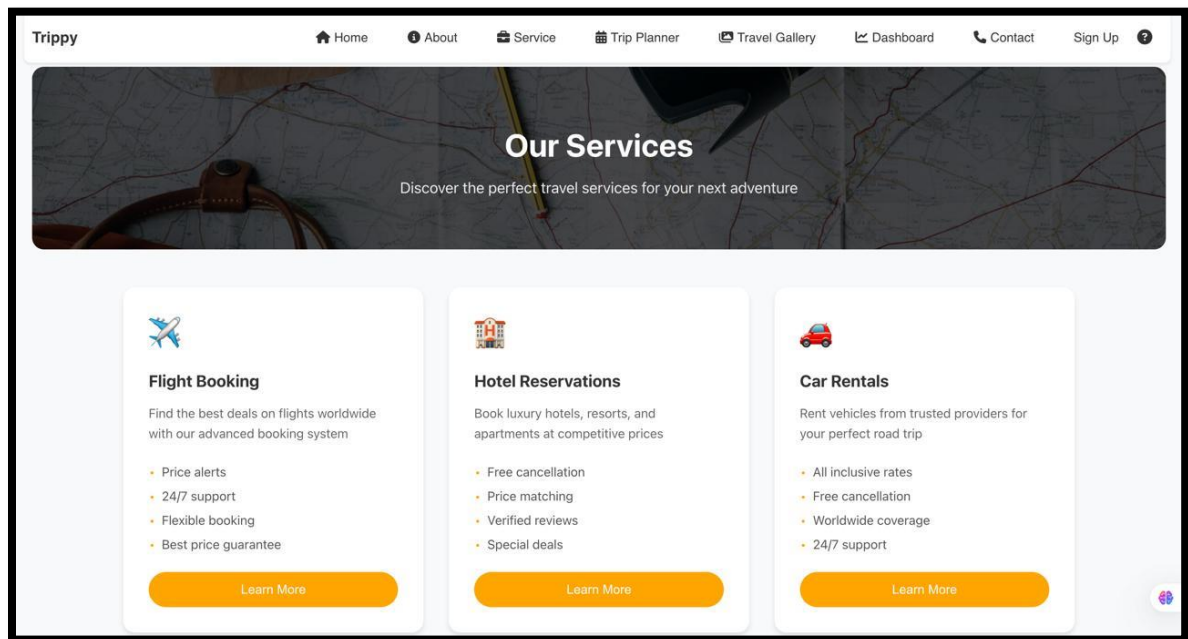
2. AI Travel Planning:

- After login, users can input their preferences like destination, duration, travel style (budget/luxury), and interests.
- The AI engine (GPT-4 or custom fine-tuned model) generates a day-wise itinerary.
- This itinerary is shown with options to edit or regenerate.



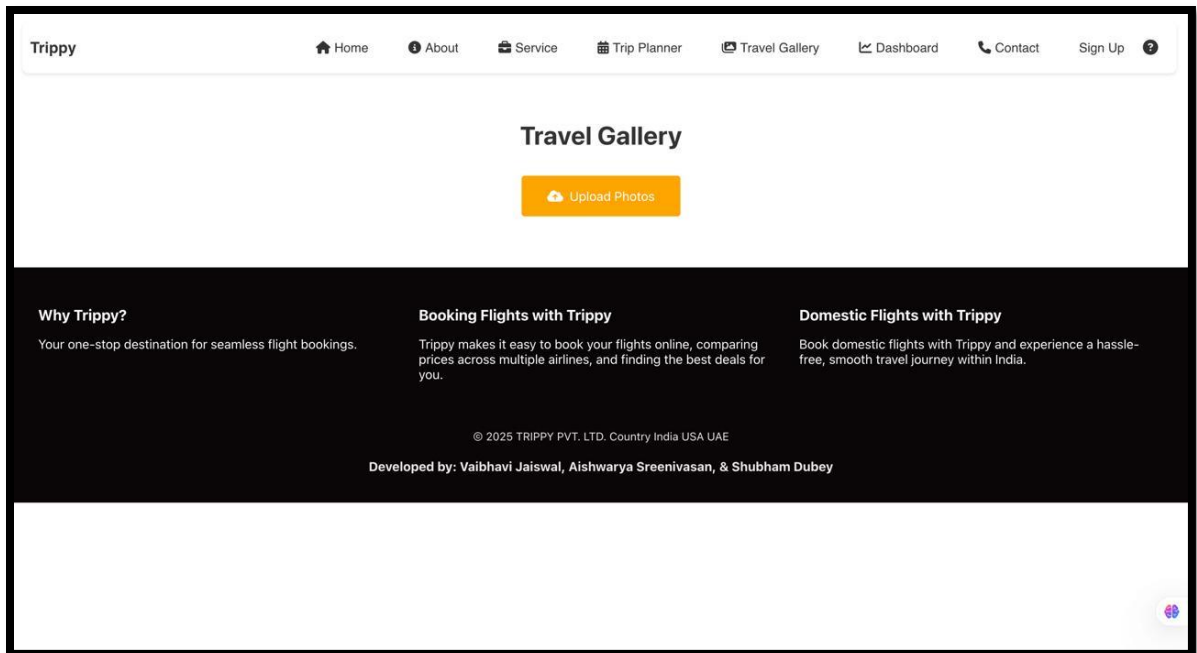
3. Booking System:

- a. The system allows users to search and book transportation (buses, trains, flights) and accommodation (hotels, lodges).
- b. If multiple services are booked in a combo (e.g., flight + hotel), a discount is applied.



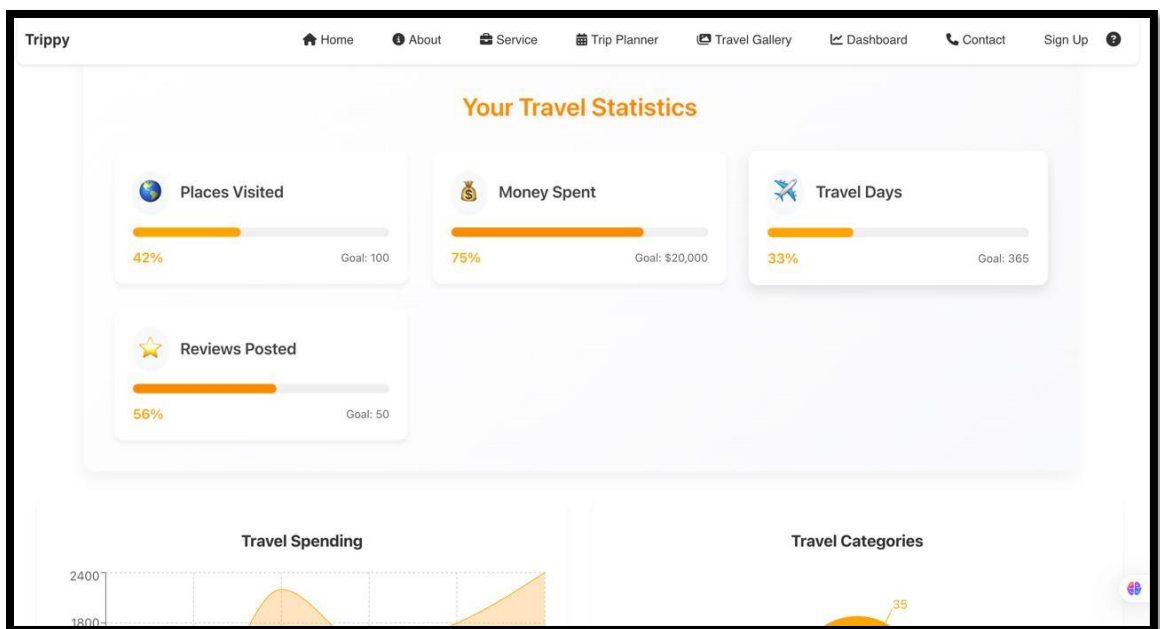
4. Review System:

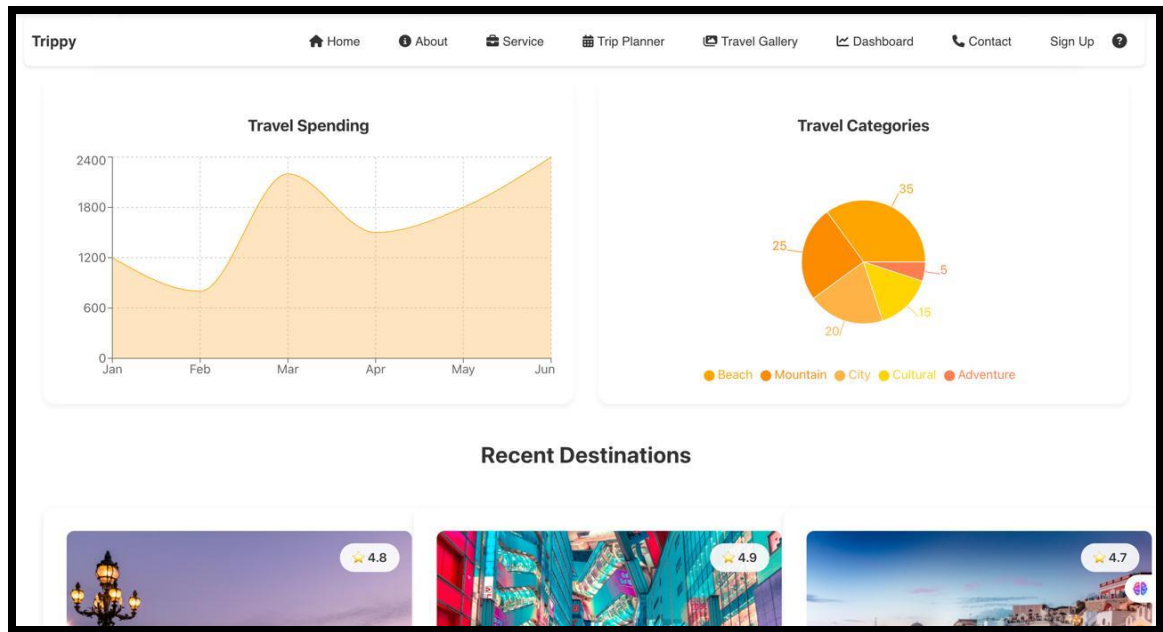
- a. Users can review their trips and rate places they visited.
- b. These reviews help enhance the AI's recommendations for future users.



5. Dashboard:

- The dashboard displays past travel plans, saved itineraries, shared journals, and upcoming bookings.
- Users can revisit and reuse old itineraries or share them with friends.





Conclusion:

Trippy aims to revolutionize the way people plan and experience travel. By integrating AI-driven itinerary creation with real-time booking options and user-friendly design, we strive to offer a hassle-free and personalized travel planning solution. Whether you're a spontaneous traveler or a meticulous planner, Trippy caters to all, making travel planning intuitive, efficient, and enjoyable.

With future goals to expand into predictive budgeting, multi-language support, and group travel collaboration features, Trippy is just getting started. Join us and let your next adventure begin the smart way!