

Explore with AI custom Itineraries for your next journey

Project Documentation format

1. Introduction

- **Project Title:** Explore with AI custom Itineraries for your next journey
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2. Project Overview

"Explore with AI Custom Itineraries for Your Next Journey" is an AI-powered travel planning platform generating personalized itineraries based on user preferences, budget, and schedule.

The platform offers AI-driven itinerary generation, real-time updates, interactive maps, booking integrations, and budget optimization for stress-free travel planning.

3. Architecture

The architecture consists of a React frontend, Node.js backend, and PostgreSQL database, with AI services integrated via APIs.

4. Setup Instructions

Install Node.js, npm, PostgreSQL, and configure API keys for AI services and payment gateways.

Run npm install in client and server folders, configure environment variables, and start the application.

5. Folder Structure

Client (React frontend) and Server (Node.js backend) folders are separate, with shared components and services.

6. Running the Application

Running the Application - Frontend:

Run `npm start` in the client folder to launch the React app on `localhost:3000`.

Running the Application - Backend:

Run `npm start` in the server folder to launch the Node.js server on `localhost:5000`.

7. API Documentation

- Document all endpoints exposed by the backend.
- Include request methods, parameters, and example responses.

8. Authentication

JWT-based authentication with OAuth integration for social logins and secure password hashing.

9. User Interface

Responsive UI with itinerary display, interactive maps, and customizable travel plans.

10. Testing

Functional, usability, and integration testing via Jest and Cypress, with AI-driven itinerary validation.

11. Screenshots and Demo

Demo link: <https://www.mediafire.com/file/mvbw2yir8uo40jf/demo+video.....mp4/file>

Travel Itinerary Generator

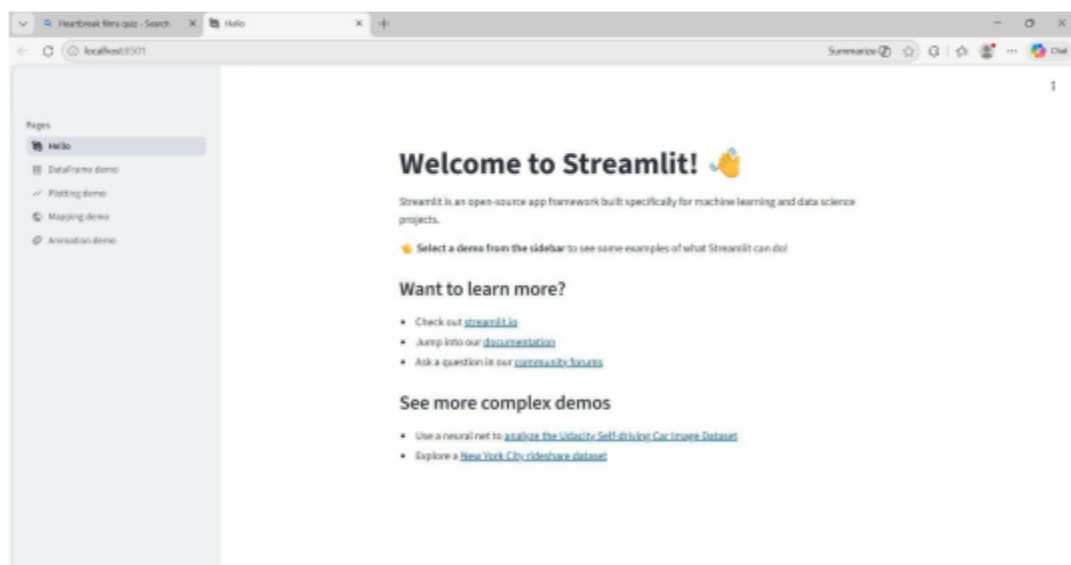
Enter your desired destination:

Enter the number of days:

Enter the number of nights:

Generate Itinerary

Or



12. Known Issues

Limited support for certain payment gateways and AI service limitations for niche travel requests.

13. Future Enhancements

Add multi-language support, expand booking integrations, and enhance AI-driven recommendations.