TRAVEL AND TOURISM
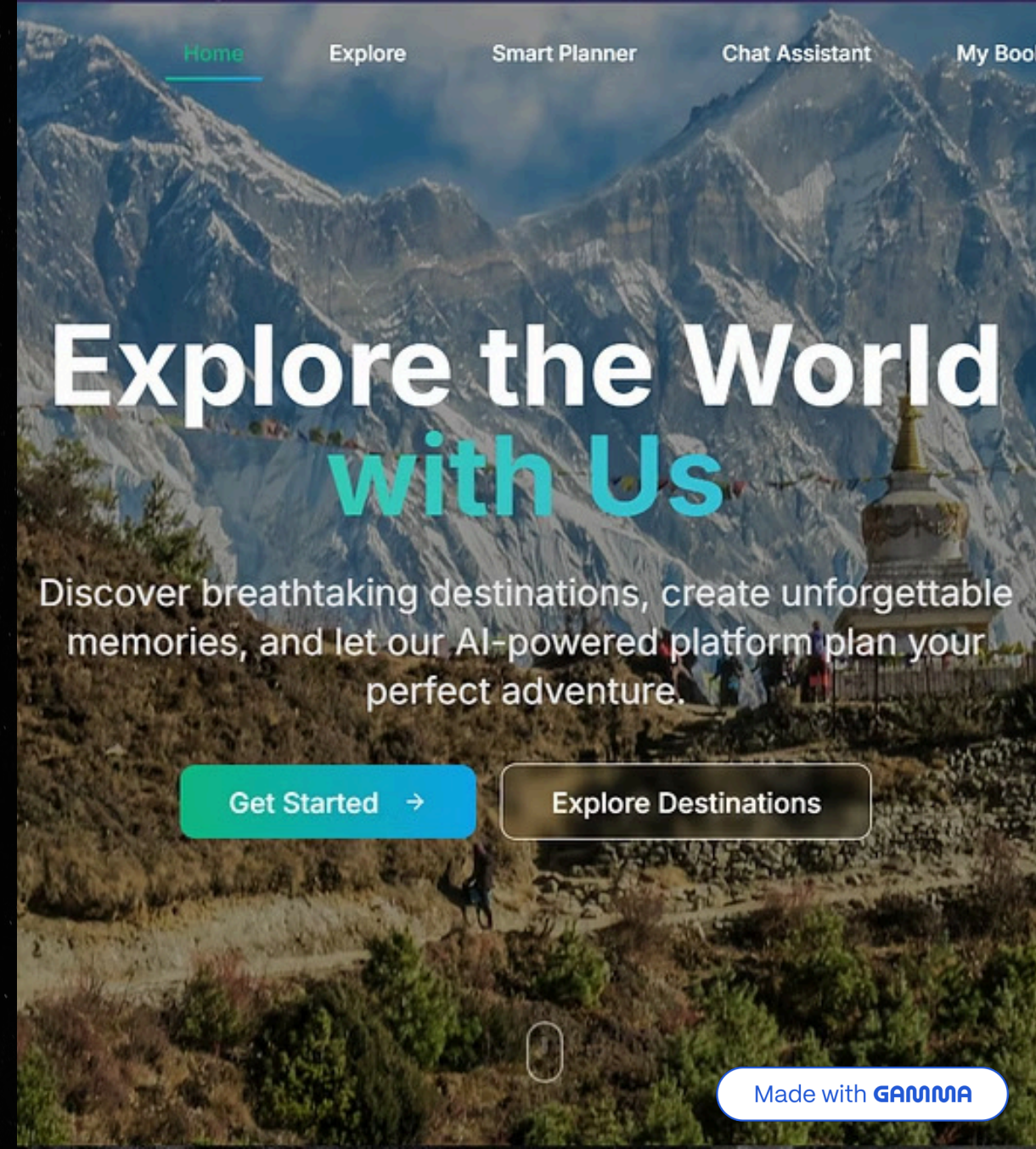
""One message. One agent. One perfect trip.""

Team Name: CodeBlooded

Hackathon: Raise Your Hack

Explore the World
with Us

Discover breathtaking destinations, create unforgettable memories, and let our AI-powered platform plan your perfect adventure.

Get Started →   Explore Destinations

Our Team

Project GitHub Link

Team Members

1. Muhammad Haider Ijaz
2. Abdul Rehman
3. Aaron Pham
4. Quoc-Thang Nguyen
5. Arooj shahzadi
6. Amina Arooj

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The Fragmented Travel Planning Problem

Time-Consuming Research

Travel planning today is a maze of manual searches across countless websites for flights, hotels, and destinations.

Lack of Integration

There's no single system that brings all travel components together seamlessly with automation and true personalization.

Overwhelming Choices

Users often feel overwhelmed by the sheer volume of information and options, leading to decision fatigue and missed opportunities.
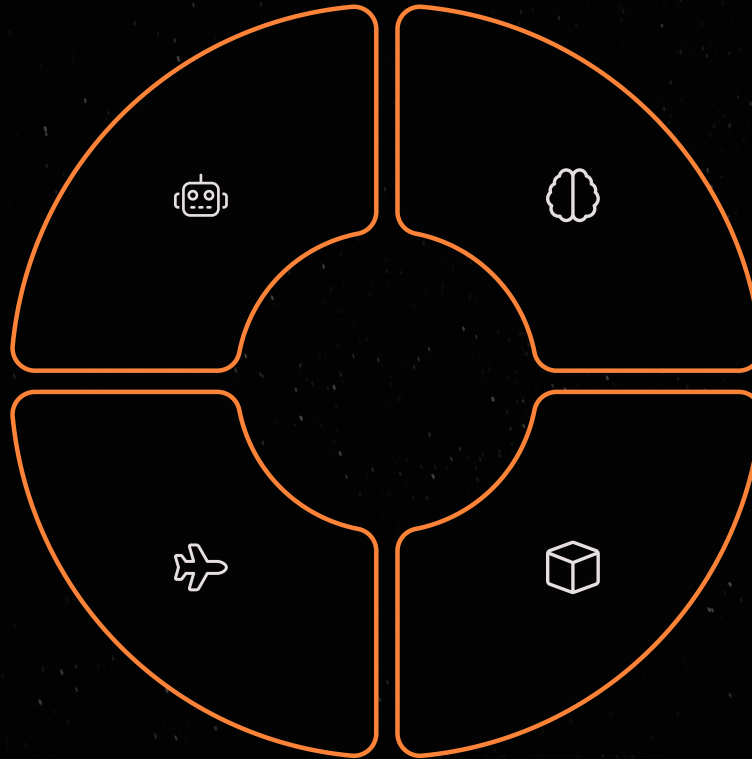
Our AI-Powered Travel Assistant

Multi-Agent AI

A sophisticated AI system automating the entire travel planning experience from start to finish.

LLaMA 4 Scout

Powered by Meta's LLaMA 4 Scout (17B-16E-Instruct) via the high-speed Groq API for intelligent processing.

End-to-End Automation

From inspiration to booking, our solution handles every step, ensuring a hassle-free journey.

Modular Design

Features a modular agent system with specialized roles for optimal performance and scalability.

Intelligent Agent-Based Workflow

Orchestrator Agent

The central brain, receiving user input and intelligently routing tasks to the appropriate agents.

Crawling Agent

Dedicated to gathering live, real-time travel data from various online sources and APIs.

Planner Agent

Leverages crawled data to construct personalized and optimized travel itineraries.

Booking Agent

Confirms bookings and seamlessly integrates them into your calendar using n8n.

Robust Tech Stack

- **LLM:** LLaMA 4 Scout (Groq API)

- **Agents:** Orchestrator, Crawling, Planner, Booking

- **Automation:** n8n (Google Calendar via webhook)

- **Data Sources:** Google CSE API, SerpAPI

- **Frontend:** React, Next.js, Tailwind CSS

- **Backend/Hosting:** Replit, Vercel, Node.js

Our architecture ensures high performance, scalability, and seamless user experience, leveraging cutting-edge technologies.

Key Features & Capabilities

Multi-Agent Coordination

Seamless collaboration between specialized AI agents for comprehensive planning.

Live Data Crawling

Real-time information on destinations, events, and accommodation for accurate plans.

AI-Generated Itineraries

Personalized and optimized travel plans crafted by artificial intelligence.

Google Calendar Sync

Automatic integration of your itinerary with your personal calendar via n8n.

Real-Time Confirmations

Instant updates and confirmations for all your bookings and reservations.

Chat-Based Assistant

An intuitive conversational interface for effortless travel planning.

Streamlined System Architecture

Our modular design ensures efficient data flow and processing, from initial user input to final calendar integration.

```
User
  ↓
Frontend UI
  ↓
Orchestrator Agent
  ├────────→ Crawling Agent → Google CSE, SerpAPI
  ├────────→ Planner Agent → Builds itinerary → n8n → Google
Calendar
  └────────→ Booking Agent → Add bookings
```
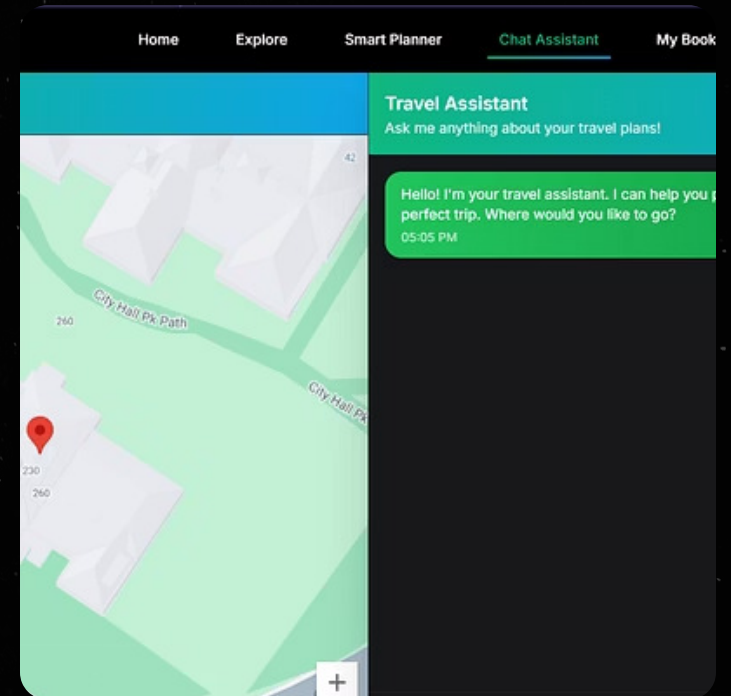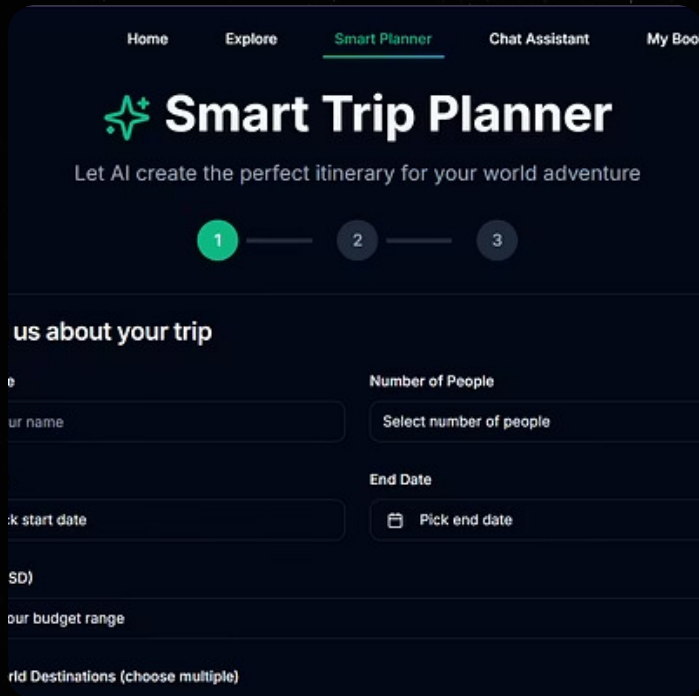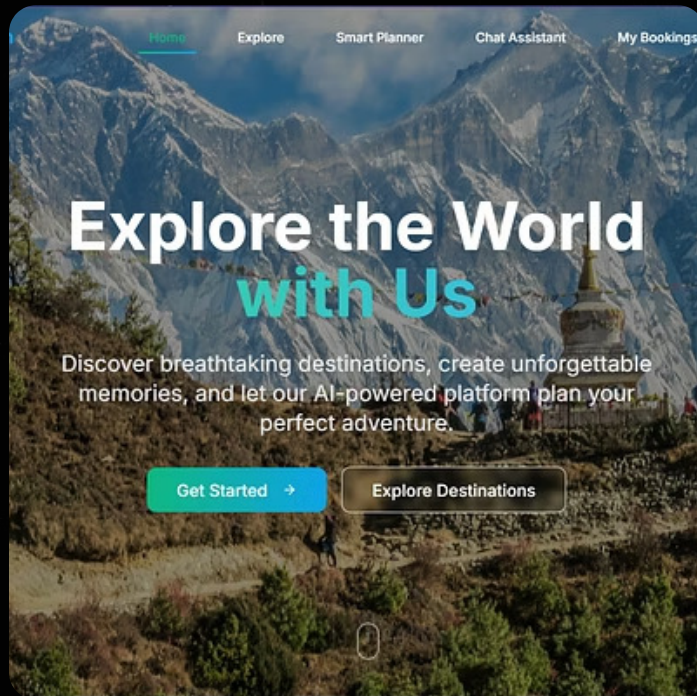
Demo & User Interface

Impact & Future Vision

Current Impact

- Smart, modular, and fully automated planning.
- Saves time, effort, and removes friction.

Future Plans

- Voice assistant integration
- Group trip planning
- Agent for budget optimization
- Offline itinerary access