YourHungry AI: Solving The "What To Eat" Dilemma

A web application that combines AI-powered recipe generation with geolocation-based restaurant discovery to solve the "what to eat" dilemma.

by Rohan Murugan

Problem: Food Indecision

Decision Fatigue

Many people struggle with making decisions about what to cook or eat.

Lack of Centralized Solutions

There is no single platform that combines recipe generation with restaurant search.

Target Audience

Home Cooks

Those who enjoy cooking at home but need inspiration and guidance.

Food Enthusiasts

Individuals passionate about exploring new cuisines and recipes.

Busy Professionals

Those who have limited time and need quick meal solutions.

Project Inspiration

Personal Experience

Fueled by personal frustration with meal indecision.

Market Gap

Recognized the need for a comprehensive food discovery platform.

Alignment with Trends

Leverages cutting-edge AI, web development, and geolocation technologies.

Solution Overview

SMS Natural Language Input

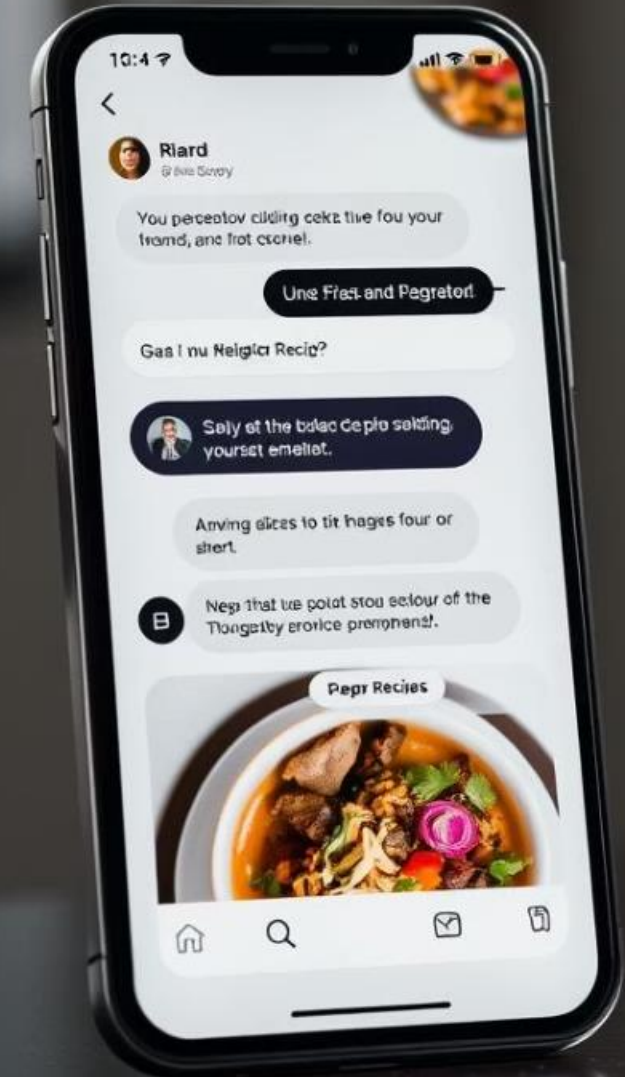Users provide dish requests in plain English.
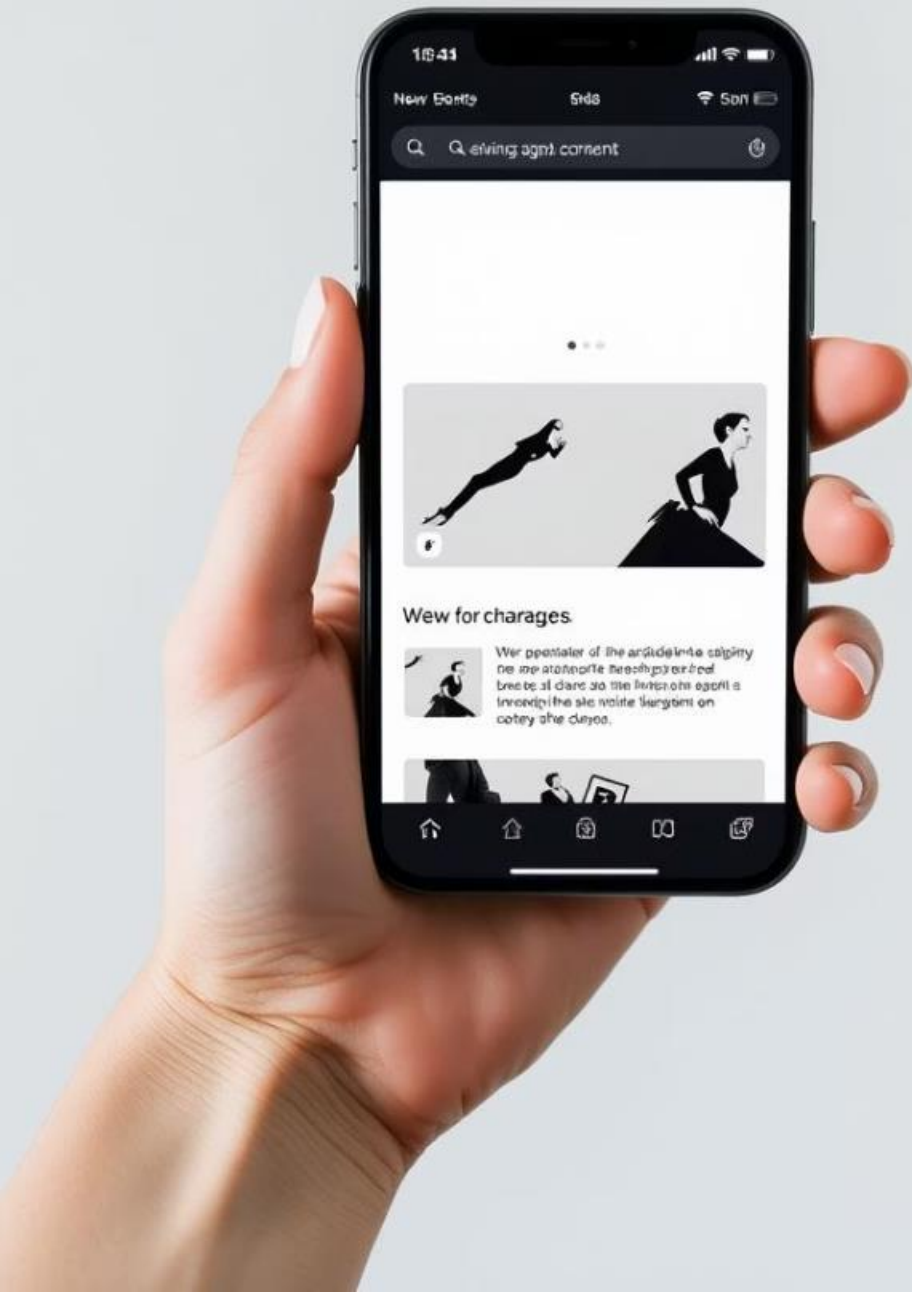
</> AI-Powered Recipe Generation

OpenAI generates detailed and visually appealing recipes.

⚲ Geolocation-Based Restaurant Search

Discover nearby restaurants serving the desired dish.

Key Considerations

User-centric design for an intuitive experience.

Secure data handling and privacy protection.

Accessibility through OAuth login with popular platforms.

Data Acquisition

1

Dynamic Recipe Generation

Utilizes OpenAI for real-time recipe creation.

2

Real-time Restaurant Search

Leverages Google Places API for location-based recommendations.

Technological Stack

Backend
Node.js, Express, MongoDB Atlas.

Frontend
React, Tailwind CSS.

AI Integration
OpenAI GPT-3.5 for recipe generation.

Addressing Concerns

1	**API Key Security**
	Implemented environment variables and server-side routing.

2	**Cost Optimization**
	Leveraged free tiers for AI and location services.

3	**User Privacy**
	Ensured explicit consent for location data usage.

Data Visualization

1

Markdown Formatting

Enhances recipe readability and visual appeal.

2

Interactive Maps

Future integration of Google Maps for restaurant visualization.

3

Tag-Based Filters

Planned feature for personalized search based on cuisines or ingredients.

What Sets YourHungry AI Apart?

Dual Functionality

Combines recipe generation and restaurant recommendations seamlessly.

Personalized Experience

Markdown-based, image-rich, and interactive AI-powered user interface.

Why Choose YourHungry AI Over Competitors?

All-in-One Platform

Food inspiration and real dining recommendations in one place.

Ad-Free Environment

No spam or intrusive advertisements to disrupt the experience.

AI Personal Assistant

Feel the tailored support with an intelligent assistant.

Modern UX

Clean, sleek interface enhancing usability and engage

Challenges in Scaling YourHungry AI

Cost Management

API expenses rise with growing user base.

Infrastructure Load

Scaling server and database to handle traffic efficiently.

Content Moderation

Ongoing efforts to filter unsafe or irrelevant data.

Personalization Complexity

Manage multi-language and diet preferences at scale.

Recommendations for Implementation Team

1 Use Serverless Setup

Adopt Vercel and MongoDB Atlas for reliable infrastructure.

2 Monitor API Usage

Set up alerts to control OpenAI and Google API consumption.

3 Optimize Requests

Prioritize caching and batching calls to reduce costs.

4 Test Security

Regularly validate CORS and authentication across environments.
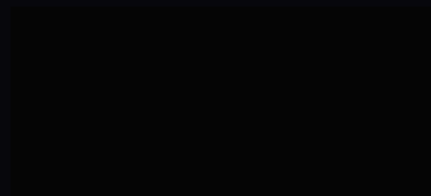
Data Protection Strategy

Token Safety

Moved token management from frontend to backend middleware.

User Privacy

Location access requested explicitly, used only on demand.

Secure Storage

JWT tokens stored safely with expiry managed carefully.

Market Forecast for YourHungry AI

Early Adoption

Targeting bloggers, food communities, and students first.

Promotional Tactics

Leverage Discord marketing and recipe-sharing features.

Expansion Potential

Grow into a global culinary recommendation platform.

Thank You!

We appreciate your interest in YourHungry AI. We're excited to bring our innovative food recommendation platform to life.

We're committed to providing a personalized and enjoyable experience for all users. We'll continue to develop and refine YourHungry AI based on your valuable feedback.