

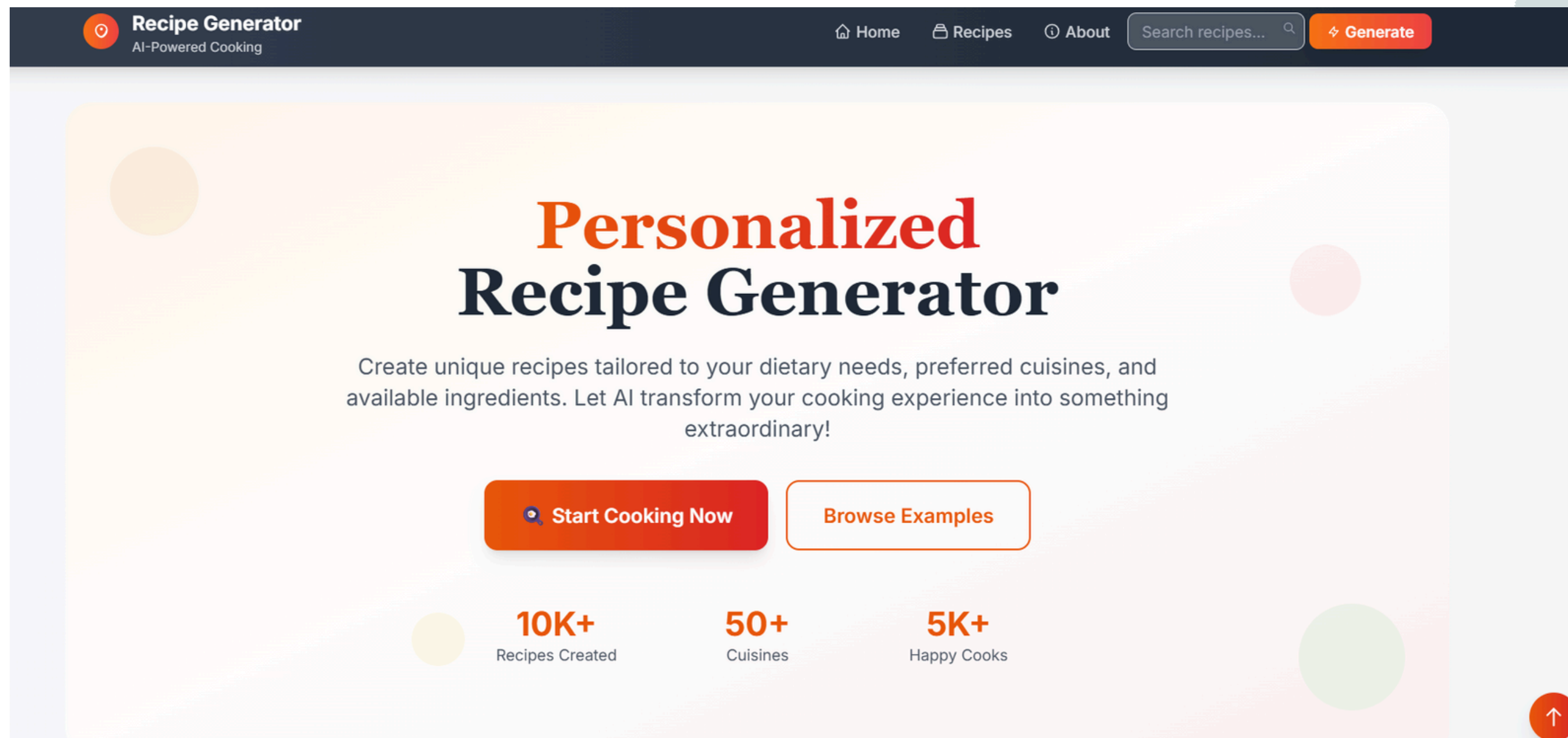
RECIPE GENERATOR

AI-POWERED COOKING

Name : Jonnalagadda Sai Vaishnavi

ROLE & CHALLENGES

- **Team Size:** 3 Members
- **My Role :** Full Stack Developer(TeamLead) + UI/UX
- **Challenges Faced:** Handling real-time AI prompt communication and parsing responses.
- **Solutions:** Created a robust middleware to connect Django with Gemini's API
- Implemented response validation and error handling to ensure consistency



TECH STACK & PROJECT OVERVIEW

Technologies:

Frontend: Next.js, HTML, CSS, JavaScript

Backend: Django (Python)

AI: Google Gemini 1.5 Pro

Database: PostgreSQL / MySQL
APIs: RESTful

Overview:

Our app delivers AI-powered personalized recipes in seconds, based on your diet, ingredients, time, and even ratings.

The screenshot displays the 'Recipe Generator' web application. The header features the app's name and tagline 'AI-Powered Cooking', along with navigation links for Home, Recipes, and About, a search bar, and a 'Generate' button. The main heading is 'Create Your Perfect Recipe', followed by a prompt to provide preferences for a personalized recipe. The form includes six input fields: Meal Type (dropdown), Cooking Time (dropdown), Difficulty Level (dropdown), Number of Servings (text input with '4'), Flavor Profile (dropdown), and Cooking Method (dropdown). At the bottom, there is a section for 'Available Ingredients' with a list of common ingredients: Chicken, Beef, Fish, Rice, Pasta, Tomatoes, Onions, Garlic, Bell Peppers, Potatoes, and Cheese.

Recipe Generator
AI-Powered Cooking

Home Recipes About Search recipes... Generate

Create Your Perfect Recipe

Tell us your preferences and let our AI chef create a personalized recipe just for you

Meal Type
Any meal type

Cooking Time
Any duration

Difficulty Level
Any difficulty

Number of Servings
4

Flavor Profile
Any flavor

Cooking Method
Any method

Available Ingredients *
Quick add common ingredients:

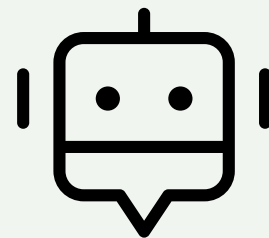
Chicken Beef Fish Rice Pasta Tomatoes Onions Garlic Bell Peppers Potatoes Cheese

PROJECT FLOW



Tell Us Your Preferences

Share your available ingredients, dietary restrictions, preferred cuisines, and cooking preferences with our intelligent form.



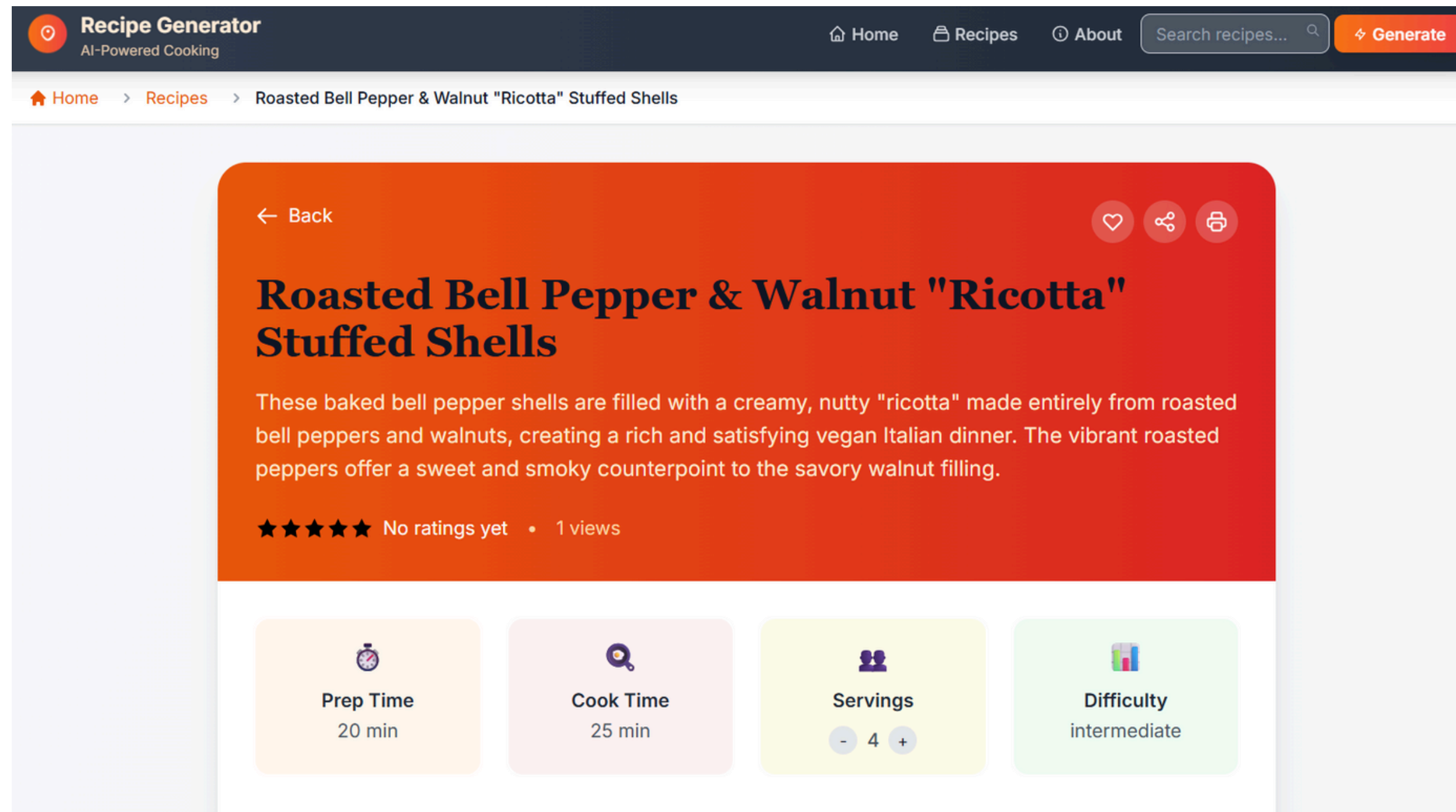
AI Creates Your Recipe

Our advanced AI analyzes your inputs and generates a unique, personalized recipe with detailed instructions and nutrition information.



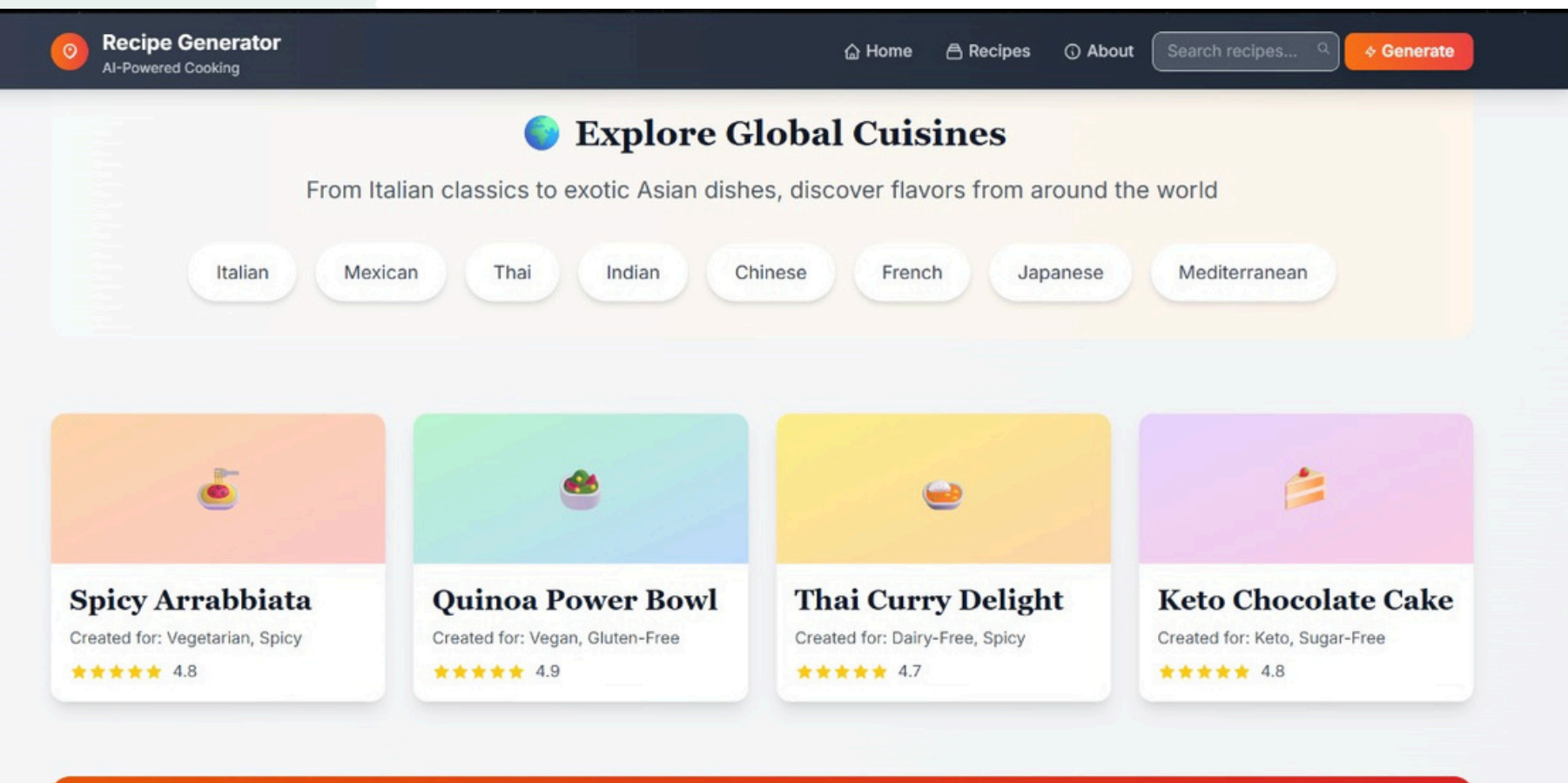
Cook & Enjoy

Follow the step-by-step instructions to create a delicious meal that's perfectly tailored to your taste and dietary needs.



ROLE & CONTRIBUTIONS

- Designed and developed the complete frontend using Next.js, HTML, CSS, and JavaScript
- Integrated Google Gemini 1.5 Pro for smart recipe generation



- Built responsive UI for desktop and mobile
- Led UX/UI decisions to ensure simplicity and clarity

CONCLUSION - THANK YOU

We believe small ideas, built with passion and precision, can create meaningful impact. This project is our first step toward building technology that feels simple, helpful, and human.

Live demo: <https://recipie-gen-frontend-pink.vercel.app/>

