

TECH INNOVATORS

LEAD BY GOKUL V



PLATEPILOT

PlatePilot is an AI-powered web application that helps users manage meal plans, recipes, shopping lists, and dietary preferences with ease. It offers personalized suggestions and nutrition tracking to make healthy eating simple and convenient.

With smart analysis and camera-based food insights, PlatePilot provides portion tips, health recommendations, and prep guidance — acting as your all-in-one digital meal coach.

FEATURES:



Recipe Management
with Nutrition Insights



Smart Shopping List
& Pantry Inventory



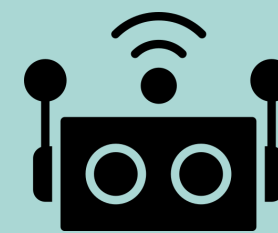
AI-Powered Meal
Suggestions



Weekly Meal Planner



Meal Image Analysis



AI Health Coach &
Chatbot

TECHNOLOGY USED:



Frontend:
Built using Next.js (App Router) and React, styled with Tailwind CSS, and enhanced with ShadCN UI for responsive, accessible design.

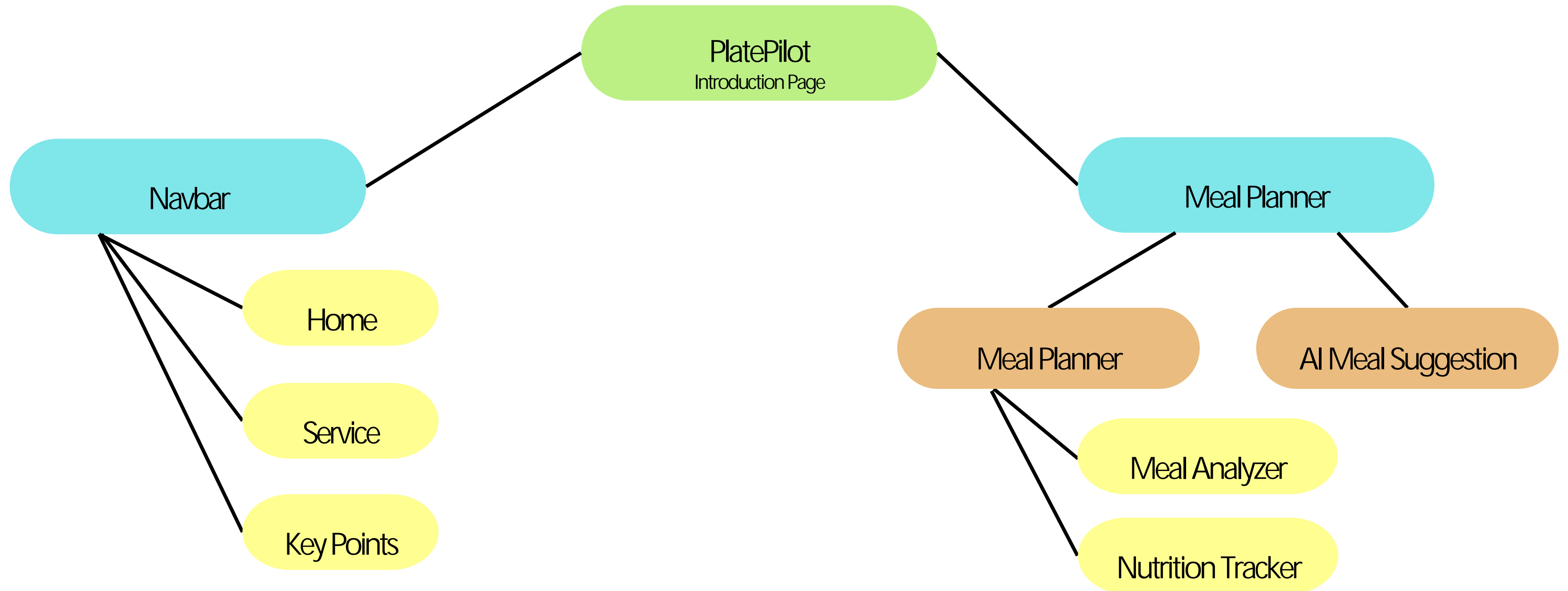
Backend:
Powered by FastAPI (Python) — a modern, high-performance web framework for handling APIs, logic, and AI request routing.



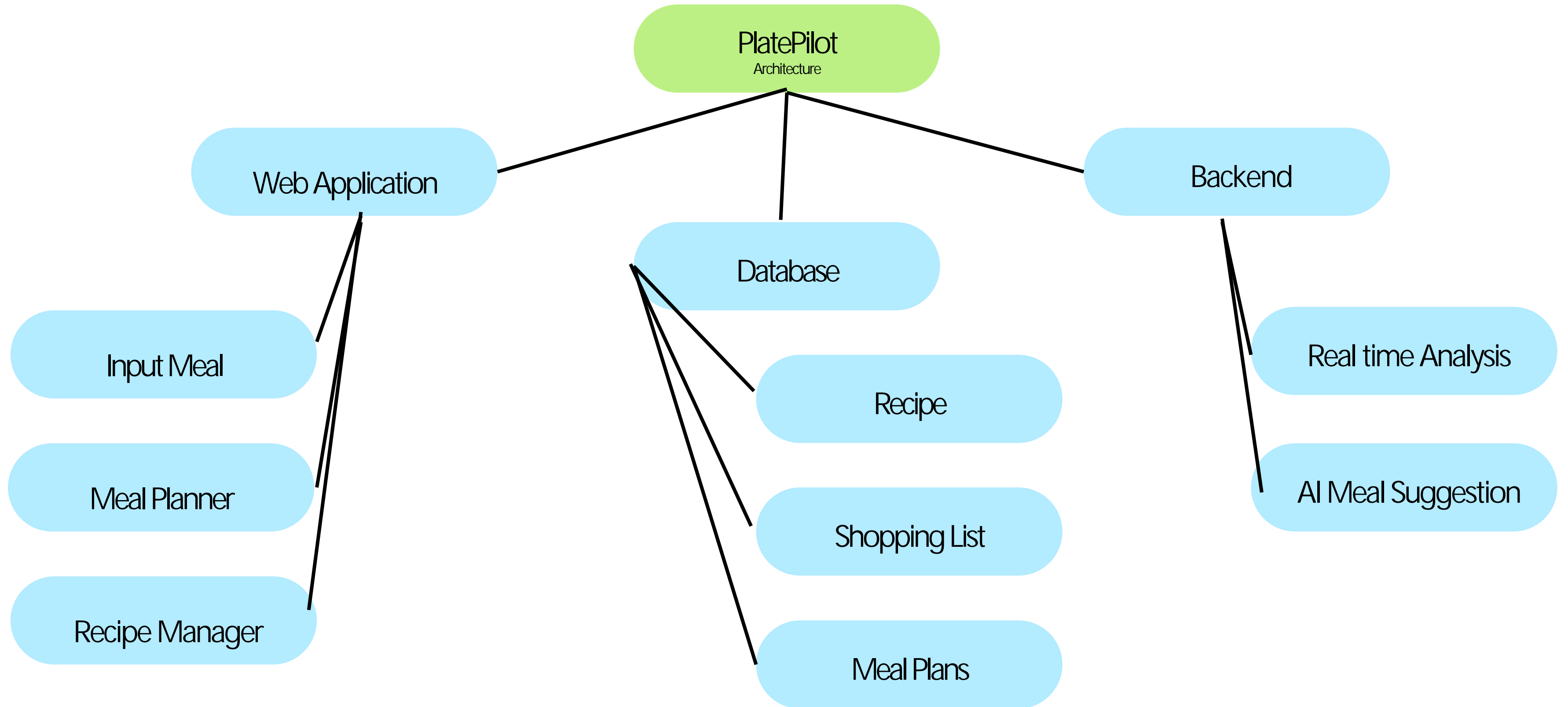
AI Integration:
Integrated with Genkit, which connects to advanced AI models (like Google Gemini) for smart meal suggestions, nutrition analysis, and coaching.

Data Management:
Written in TypeScript for type safety, and uses Client-side Local Storage to persist user data like recipes, meal plans, and pantry items.

MIND MAP



ARCHITECTURE



LINKS



[PlatePilot](#)

Thank you