

NomNom Bot

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Project Definition

NomNom Bot is a cooking AI Bot directed to University students who are on their own for the first time and might have struggles with cooking. NomNom Bot's goal is to make cooking easier for students. It gives students a resource to help create different foods and supply them with the needed ingredients and simple directions. Hopefully it will allow students to be able to cook homemade meals for themselves with ease more often. NomNom Bot will be implemented with an AI chatbot giving a seamless and easy going feel when cooking. NomNom Bot will provide nutritious, filling meals that are perfect for students and provide the nutrition facts as well. NomNom Bot's AI chatbot functionality will act as if you are texting a personal chef for directions and help. NomNom Bot will be built on the Laravel framework for backend, React Native for frontend, chat logs and information will be stored using a Postgres database.

Project Requirements Analysis

Functionality:

For the users, NomNom bot will be easy to use through a familiar chatbot interface. The user will type in food specific questions, and the chatbot will yield a recipe or associated information. The user is presented with a text like conversation interface. Seamless conversation style, keen to talking to a human chef but through your phone. It will have immediate responses to user questions. NomNom Bot is a mobile application that is built on the Laravel framework to handle backend interactions with a seamless and responsive frontend built using the React Native framework, and all chat specific information will be stored and managed through a PostgreSQL database. NomNom Bot security consists of user accounts with specific roles and login credentials according to general user or developer/admin user. NomNom Bot will have a content filter to make sure users do not submit NSFW images, text, and or other malicious code.

Project Specification

Focus/Domain/Area:

The focus of our project is to target young adults in college that don't have experience in cooking.

Libraries/ Frameworks/Development

Frontend Framework:

- Expo(React Native and Typescript)
- Navigation: Expo-Router
- UI/Styling: Tailwind CSS

Backend Framework:

- Laravel(PHP)

Platform:

- Mobile

Genre:

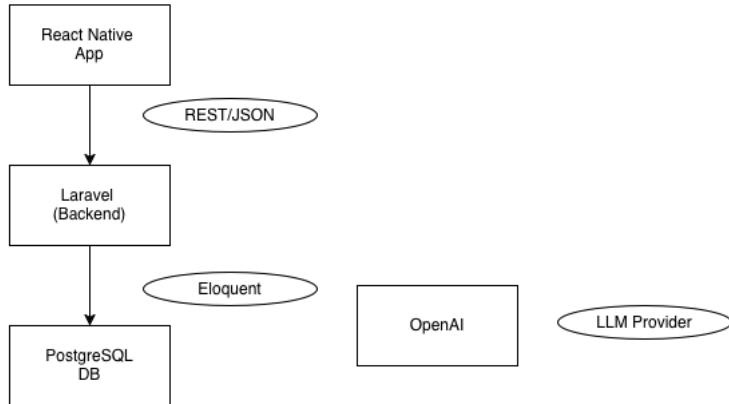
- Mobile AI Chatbot Application

Data Resource:

- OpenAI LLM

System Design

High Level View of Proposed System Components



Proposed Classes

Subject to change as project evolves*

User	Message	Conversation
User_ID User_Name Email Role Dietary_Pref Allergies	Message_ID User_ID Created_AT	Conversation_ID Message_ID Content Timestamp

Relations

