Q2 Project Description

Our project aims to develop a website that assists users in discovering recipes and nutritional information for various dishes. Utilizing an API from a food-oriented website, we plan to extract essential details about recipes and their nutritional content. For users uncertain about their meal choices, our website will feature an integration with ChatGPT through its API to engage in interactive conversations, helping to inspire their decisions. Additionally, for users preferring to dine out, our site will incorporate Google Maps API to display nearby restaurants offering the selected dishes. The collected information, including user queries and preferences, will be stored in a MySQL database for future reference and data analysis.

Q3 Product Requirements

Q3.1 Goal

To create a user-friendly website that provides recipes, nutritional facts, and dining options based on user preferences or interactive ChatGPT sessions.

Q3.2 Non-Goal

Our project does not aim to develop new APIs for food data retrieval or map integration but rather to leverage existing ones effectively.

Q3.3 Non-functional requirement 1:Security

Q3.4 Functional requirement 1.1

Use OAuth authentication to log into Google map

Q3.5 Functional requirement 1.2

Securely storeGoogleMap api keys in local files only without exposing them on github/ the web

Q3.6 Non-functional requirement 2 Repeatability

Q3.7 Functional requirement 2.1

Previous searches and their results will be stored locally

Q3.8 Functional requirement 2.2

Priority will be given to restaurants that have eaten at before

Q4 Project Management

Q4.1 Theme

Delight the user by showing them appropriate recipes or restaurants.

Q4.2 Epic

Interactive Conversations

Q4.3 User story 1

As a user, I want to ask specific dietary preference questions to the system for relevant suggestions.

Q4.4 Task 1

Integrate ChatGPT API to support real-time conversations.

Q4.5 Ticket 1.1

Implement ChatGPT API integration to enable real-time interactions.

Q4.6 Ticket 2.1

Design a user-friendly frontend interface allowing users to interact with the system

Q4.7 User story 2

Find restaurants that have this food nearby by selecting a specific food variety.

Q4.8 Task 2

Access to the Google Maps API and localization of the user's location.

Q4.9 Ticket 2.1

By accessing Google Maps' API, it searches for restaurants where specific types of food are located after obtaining the user's geolocation information.

Q4.10 Ticket 2.2

To display a sufficient number of restaurants as well as some useful information for the user (distance, price per person, restaurant ratings)