munch-mate

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MB/CSE 648 GPT Application

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Agenda

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Project Proposal

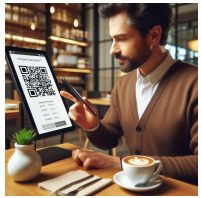
Providing cloud solution to host an intuitive **virtual assistant for restaurant recommendations.**

- **Restaurants recommendation** based on location
- Trending food spots suggestions
- Recommendations based on dietary requirements
- Instagram-worthy restaurants and dishes

User Personas

Health-conscious

Seek nutritious and locally-sourced meals



Tech-savvy

Prefer seamless dining experiences enabled by technology

Social media-savvy

Attracted to visually appealing dishes and actively engage in sharing their dining experiences online.

Eco-conscious

Favor sustainable dining options with practices like sourcing local ingredients, reducing food waste, and minimizing carbon footprints.

Experience-focused

Value unique dining experiences with inventive menus, and thematic decorations

Design Workflow

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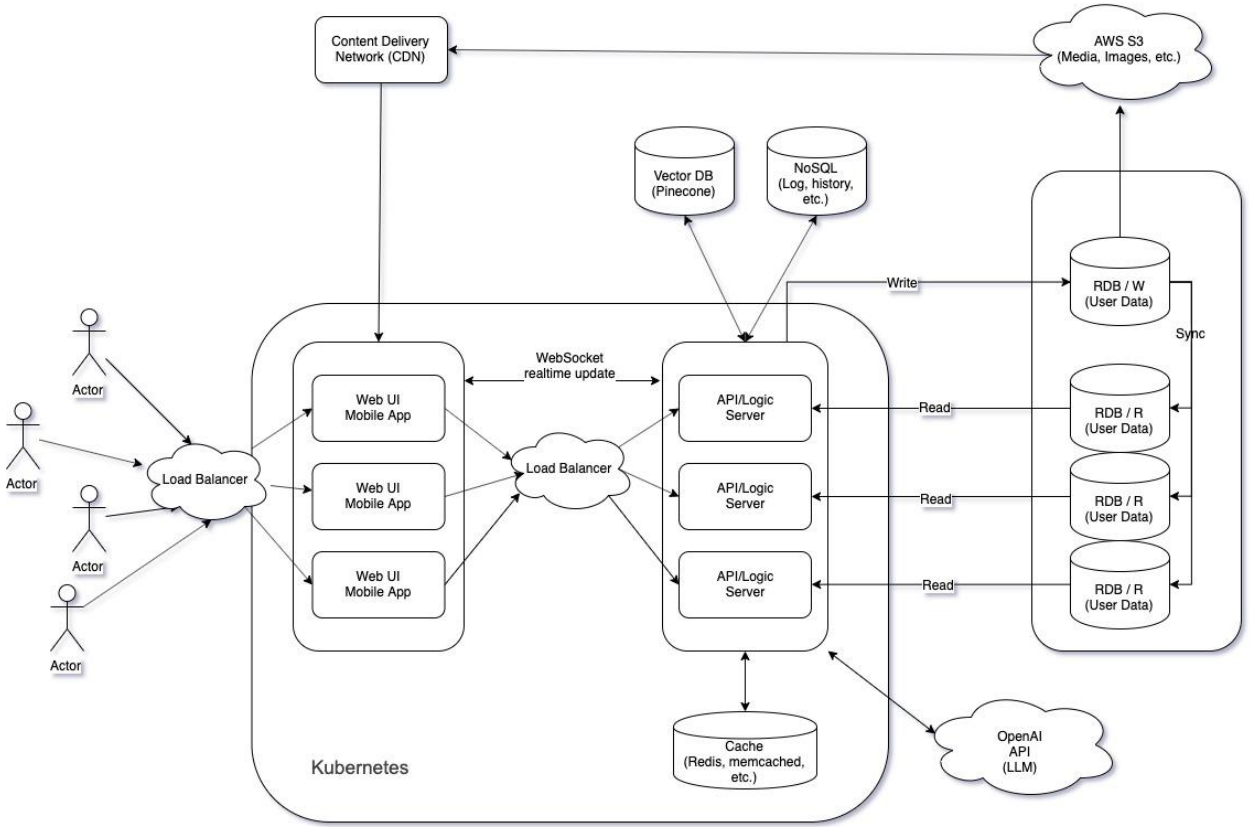
System Architecture

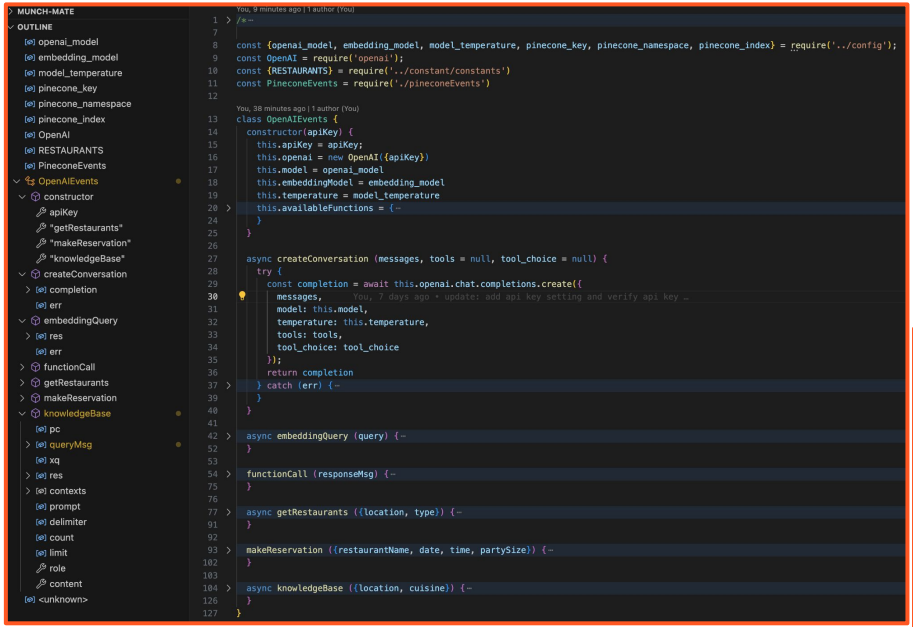


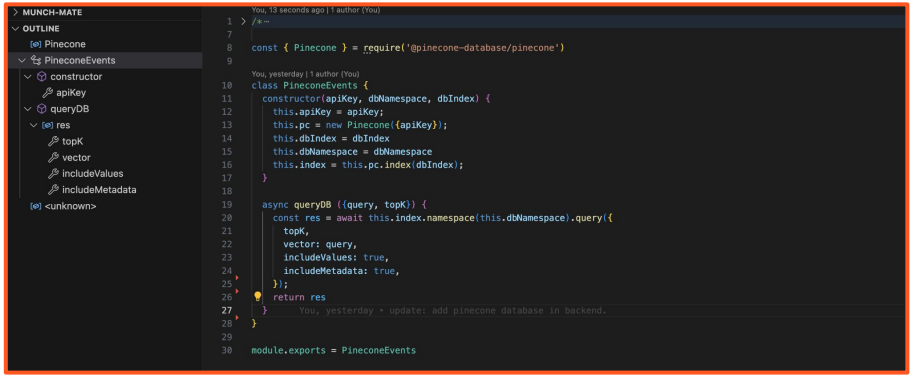
Web UI Frontend (React.js) EC2

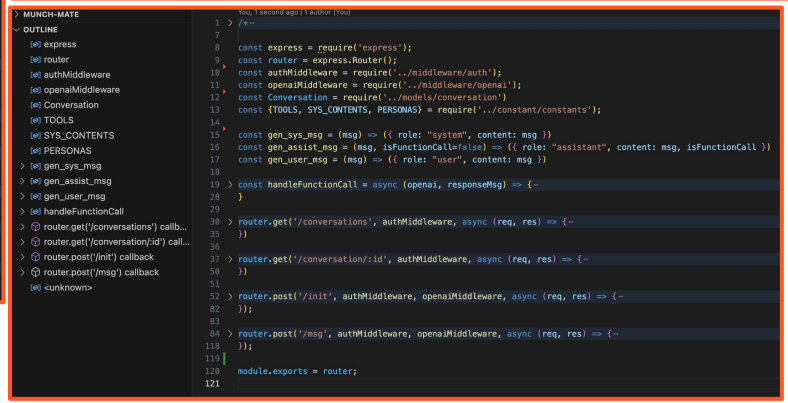
API/Logic Server Backend (Node.js) EC2

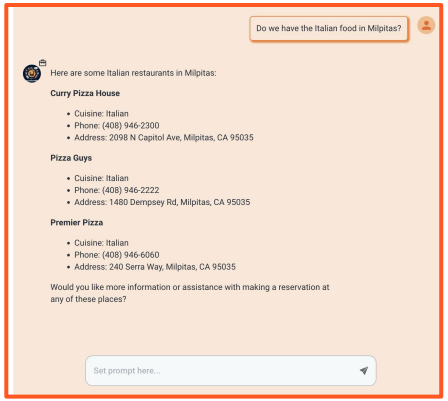
Created by Yaoching Chi

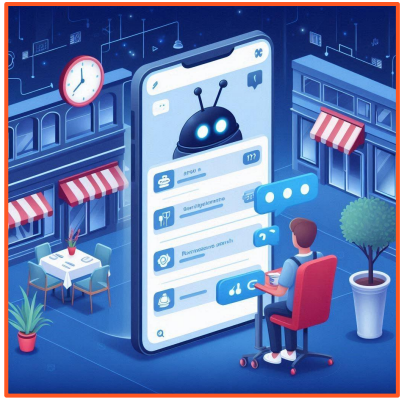
Code Snippets



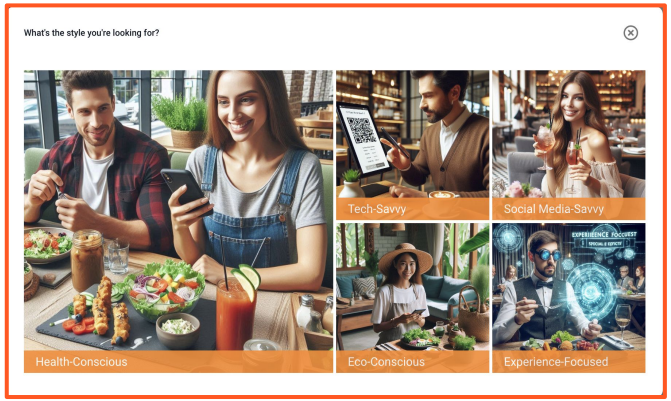








Product Demo



A Touch of Project Management

Project Charter

Content link to Google Drive or Project Charter link on Click Up

munch-mate

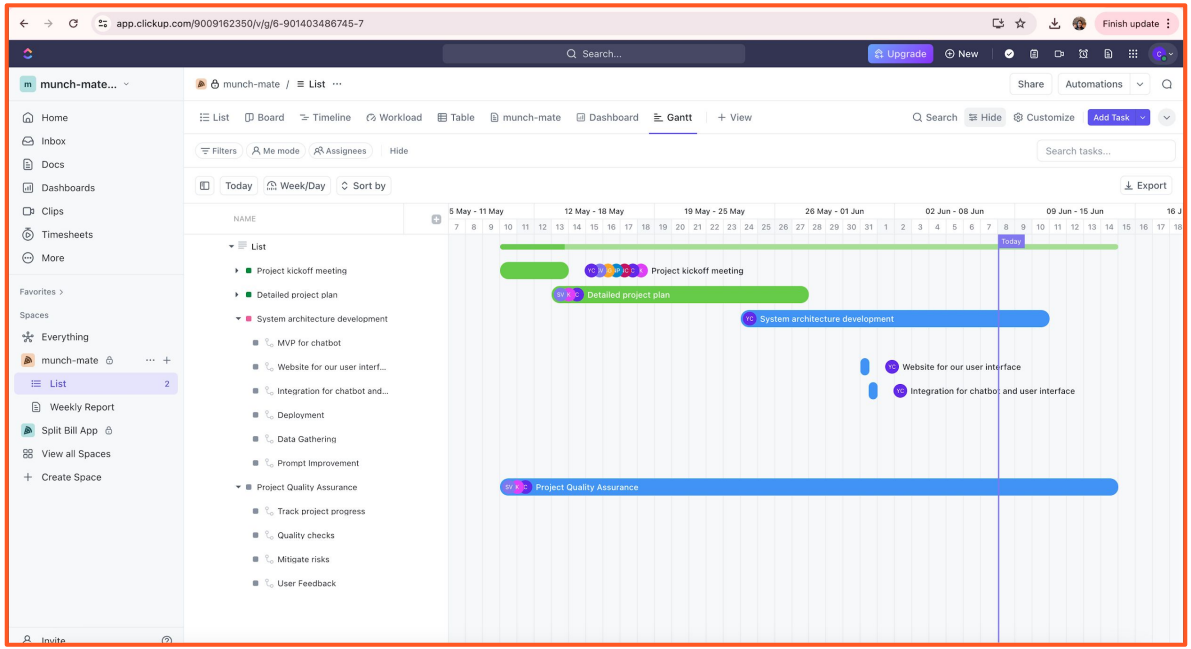
Project Charter

1. General Project Information

Project Name	munch-mate
Executive Sponsors	Prof. Michael Hu
Department Sponsor	California Science and Technology University
Impact of Project	To enhance dining experience for users by providing personalized restaurant recommendations while boosting for visibility and business for local eateries in Milpitas.

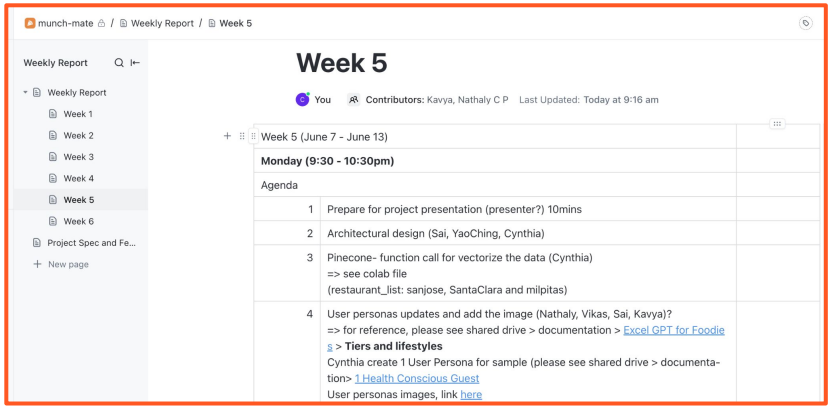
Gantt Chart

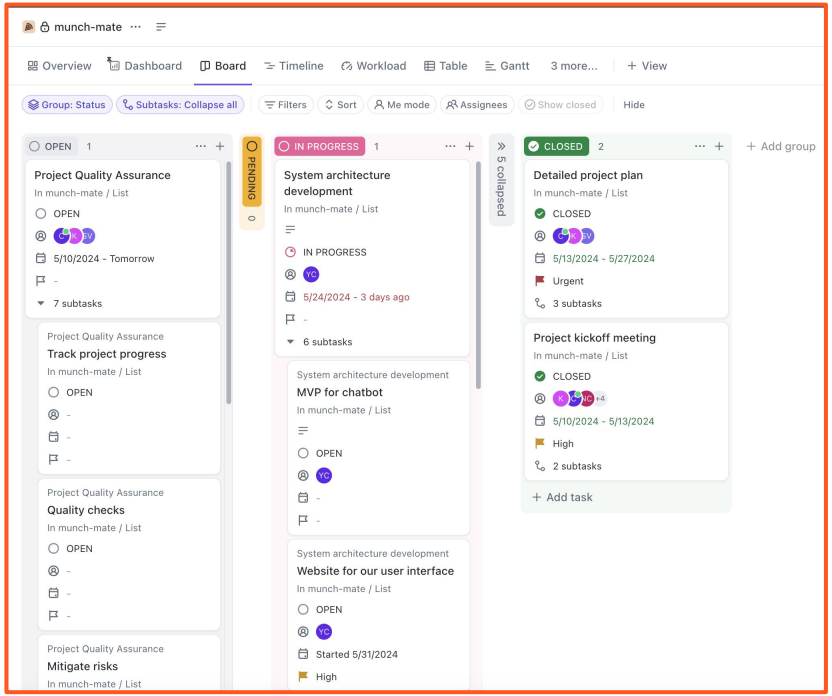
Link to [Gantt Chart](#) on Click Up



Weekly Task and Report

Link to [Weekly Report](#) on Click Up





Lesson Learned

Team alignment, prioritization, firm decision making for progressive deliverables

Biggest lesson learnt would be understanding the use of GPT application which lead to greater involvement in building a project from scratch with a utmost team collaboration and also got a exposure to understand how to program with the help of ChatGPT.

Effective teamwork and communication were crucial for keeping the munch-mate project on track and resolving issues promptly.

The importance of having a complete source of truth, especially considering that there are specific areas where GPT may not completely cover the data. For example, in our project, it was crucial to create our own data set related to restaurants, addresses, emails , etc. and vectorize them so that our chatbot was reliable and accurate on its answers.

Finally I learned how to code the AI programing and can be integrated to web page.

Building our own AI Chatbot! Team work, Presentation within 5 minutes, Python, Agile Project Management

Areas for Improvement

A point of improvement would be to include more functions to make it a more complete chatbot. For example, you could feature restaurant reviews and give recommendations based on them, offer recipe ideas, etc.

Enhancing user feedback collection through methods like in-app surveys to better understand and meet user needs in the future.

The possibilities are endless. With more time, we could implement new and improved ideas to our bot like voice to text, maps, making reservations, UI improvisations, and much more. Once launched publicly, focus on user feedback and enhancements.

Area to improve can be implementation of somemore function such as voice to text option and google images reference chain link so that customers can get a better understanding of the ambiance before they proceeded to the reservation.

ability to provide accurate information, map and direction, listen for your request, connect to booking/payment gateway

The course is too short that I can't make a "final product" for our team to integrate more functions, hope it could be a 2 terms course that we can keep learning how to make our chatbot perfectly

Thank you!

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