Weekly Report

Team Members	Role:
Cynthia	Scrum Master
Kavya	Scrum Master Team
Nathaly	Scrum Development Team
Sai	Scrum Development Team
Vikas	Scrum Master Team
Yao Ching	Scrum Product Owner

Meeting notes:

- Remember: The objective of this project is to deepen your understanding of LLM/GPT technology and the practical application of the industrial tools in a real-world project. Delivering a functional product is essential at every stage.

Week 1 (May 10 - May 16)	
Saturday, 11 May 2024 (5-6pm)	
Agenda	
1	Brainstorm about the project
Meeting notes	
1	Decision on creating foodie chatbot
2	Create draft project proposal
Thursday, 16 May 2024 (7:30-9:30pm)	
Agenda	
1	Prepare project documentation
2	Prepare mock code for user story
Meeting notes	
1	Chatbot name created - munch-mate
2	Create project proposal
3	Mock code complete

Week 2

Week 2 (May 17 - May 23)	
Monday, 20 May 2024 (9:30-10:45pm)	
Agenda	
1	Read about the Agile process (SCRUM method)
2	Prepare for the project milestone presentation (read documents in the Project folder in the GPT class drive)
3	Be participative and responsive (or we may kick you out from the team ... j/k ;p)
Meeting notes	
1	Role delegation
2	Discussion on coding part (development team Seven, Nathaly, Sai)
3	Discussion on project management (Cynthia, Kavya, Vikas)
4	Timeline coordination (submission meeting every Thursday evening)
5	Presenter for Saturday class: Vikas
Tuesday, 21 May 2024 (7:30-9am)	
Agenda	
1	Project Document team meeting
2	Delegation of task
Meeting notes	
1	Create ClickUp for munch-mate project management
2	Vikas - Gantt Chart
3	Kavya - Project Charter
4	Cynthia - Weekly Report
Thursday, 23 May 2024 (9 -10:30pm)	
Agenda	
1	Progress Report

2	Project Milestones Review
3	Issues
4	Stand up meeting (20 mins)
Meeting notes	
1	Finalizing project charter (Kavya), gantt chart (Vikas)
2	Draft UI user experience design (Cynthia)
3	Updating code using loop

Week 3 (May 24 - May 30)	
Thursday, 30 May (9 - 10pm)	
Agenda	
1	Presenter for Friday/Saturday
2	System requirement update (narrower scope and prioritize)
3	Update code based on system requirement
4	UI UX user workflow
5	Issues
Meeting notes	
1	Kavya will present for the evaluation review
2	Seven add function for searching restaurant
3	Issue on compiling function call (solved)
4	Sai to add data to the restaurant list (csv file)
5	Cynthia to create the UI look and feel (using Figma)
6	Nathaly to create reservation function call mock up
7	Prompt only search function and reservation

Week 4 (May 31 - June 6)	
Thursday (9-10pm)	
Agenda	
1	Last document review
2	Function call for search (YaoChing) and reservation (Nathaly) using vector database
3	UI/UX update
4	Update project documentation (quality assurance)
5	4 user personas prompts (Nathaly)
6	Database restaurant (Sai)
Meeting notes	
1	Nathaly will present (UI presentation)
2	Issue: when using vector database, it seems GPT only get information from the PDF only, instead of using GPT knowledge
3	Project code is using Javascript for UI and Python (and GPT OpenAI)
4	Is Javascript allowed?
5	Contents of the DB: Name, Address, Phone Number, Email, Cuisine, Website (Kavya - Fremont, Vikas - Santa Clara, Cynthia - San Jose)

Week 5 (June 7 - June 13)		
Monday (9:30 - 10:30pm)		
Agenda		
1	Prepare for project presentation (presenter?) 10mins	
2	Architectural design (Sai, YaoChing, Cynthia)	
3	Pinecone- function call for vectorize the data (Cynthia) => see colab file (restaurant_list: sanjose, SantaClara and milpitas)	
4	User personas updates and add the image (Nathaly, Vikas, Sai, Kavya)? => for reference, please see shared drive > documentation > Excel GPT for Foodies > **Tiers and lifestyles** Cynthia create 1 User Persona for sample (please see shared drive > documentation> 1 Health Conscious Guest User personas images, link here	
5	Create scenario for our demo (open to prof to use) (Kavya, Vikas)?	
6	Finalize all the code in one script (function call, vectorize data, etc...) (YaoChing)	
7	Finalize the document (Cynthia, Kavya, Vikas)?	
	Simple ppt presentation Each team will have a maximum of 10 minutes to present their project, followed by a 5-minute Q&A session. The presentation may cover the following key points: 1. Product Introduction: a) Provide an overview of the chatbot's purpose, target audience, and main functionalities. b) Explain the problem the chatbot aims to solve and its potential benefits. 2. ChatBot Solution Architecture: a) Describe the underlying technology stack, including the use of LLM and other related technology. b) Outline the system architecture and its components, highlighting any innovative or unique features. 3. Product Demonstration: a) Showcase the chatbot in action, demonstrating its core capabilities with real-world scenarios. b) Highlight any specific challenges face during development and how they were addressed. 4. Lessons Learned: a) Reflect on the knowledge we learned during this class during the project. b) Discuss the successes and achievements, as well as the obstacles encountered and how they were overcome. c) Mention any changes in project scope or adjustments made during the development cycle. 5. Areas for Improvement: a) Identify aspects of the chatbot's performance or functionality that could be enhanced in the future. b) Share insights gained from user feedback or testing that could lead to improvements. c) Discuss any potential enhancements to the product or opportunities for further development.	
8	**Everyone** write 1 lesson learn and 1 area of improvement and we will combine those in the slide	
Meeting notes		
1	Presenter to be discussed on Thurs	

2	Sai to finish System Architecture on Tuesday	
3	Cynthia to add Fremont database by Thurs	
4	Nathaly, Cynthia and Kavya to finish the document	
5	Vikas to create the demo question (skit)	
6	Vikas to add images	
7	**Project Report - confirm with professor on Friday to check if doc is needed.**	
8	**Everyone** - Project Quality Assurance - Wednesday evening - 9:30 to 10:30pm	
Wednesday (9:30 - 10:30pm)		
Agenda		
1	Prepare for project presentation (presenter?) 10mins	
2	Discuss pending tasks	
Meeting notes		
1	Add pictures and titles to the Types (https://drive.google.com/drive/folders/1N884rIDAnIhqCiITjiy6-glw4aFQtSKE?usp=drive_link)	
2	Test munch-mate and log issues (see cards on Quality Assurance)	
3	Update system architecture to reflect the current munch-mate (https://drive.google.com/file/d/1YcuDcP4LuOTNm88TSHM8WzPR2Pc1umLr/view?usp=drive_link)	
4	Update the presentation (https://docs.google.com/presentation/d/16yfIH3wK3NHIvdidkGkMIw3XvsgX59KR4j__iCIWQ-4/edit?usp=sharing)	
5	Seven provide screenshots of the code	
Thursday (9 - 10pm)		
Meeting notes		
1	Seven to complete the user persona details, provide code snippets	
2	Update system architecture	
3	Ask professor tomorrow about the Project Report documentation (word)	
4	Presentation Kavya (slide 2-3) Nathaly (slide 4)	
5	2 computers (1 for Demo and 1 for Code)	

Week 6 (June 14 - June 20)		
Monday (9:30 - 10:30pm)		
Agenda		
1	Final project report documentation	
2		
3		
4		
5		
6		
7		
8		
Meeting notes		
1		
2		
3		
4		
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6		
7		
8		
Wednesday (9:30 - 10:30pm)		
Agenda		
1		
2		
Meeting notes		

1		
2		
3		
4		
5		
Thursday (9 - 10pm)		
Meeting notes		
1		
2		
3		
4		
5		

Project Spec and Features

Munch-Mate Project Specification (7-Week Timeline)

Project Overview

Munch-Mate is an interactive foodie chatbot aimed at providing users with recommendations for the best restaurants and meals in Milpitas. Integrated into our website, Munch-Mate will leverage natural language processing and a curated database of local dining options to enhance user experience.

Objectives

- Deliver personalized restaurant and meal recommendations.
- Ensure a smooth and engaging chatbot experience.
- Gather user preferences and feedback for ongoing improvements.

Key Features for 7-Week Timeline

Given the time constraint, the focus will be on delivering a Minimum Viable Product (MVP) with the following essential features:

1. **Basic User Interaction and Query Handling**
   - Core natural language understanding for basic queries about restaurants and food in Milpitas.
2. **Personalized Recommendations**
   - Rule-based recommendations based on user input, such as type of cuisine and dietary preferences.
3. **Restaurant Database**
   - Initial curated database of key restaurants in Milpitas, including basic details (name, address, cuisine type, contact information).
4. **Interactive Chatbot Interface**
   - User-friendly chatbot interface embedded in the website, supporting basic text interactions.
5. **User Feedback Mechanism**
   - Basic feedback collection from users regarding the chatbot's recommendations.

Detailed 7-Week Project Plan

Week 1: Planning and Setup

- Finalize project requirements and specifications.
- Set up development environment and tools.
- Curate initial database of restaurants.

Week 2: Basic Chatbot Framework

- Develop the basic chatbot framework using a suitable NLP platform (e.g., Dialogflow, Rasa).
- Implement initial natural language understanding capabilities for common queries.

Week 3: Database Integration

- Integrate the restaurant database with the chatbot.
- Ensure chatbot can fetch and display restaurant information from the database.

Week 4: Basic Recommendation Engine

- Implement rule-based recommendation logic.
- Enable the chatbot to provide personalized recommendations based on user inputs.

Week 5: User Interface Development

- Develop and integrate the chatbot interface into the website.
- Ensure responsive design for usability across devices (desktop, mobile, tablet).

Week 6: Feedback Collection Mechanism

- Implement a basic mechanism for users to provide feedback on recommendations.
- Start collecting initial user feedback for refinement.

Week 7: Testing and Deployment

- Conduct thorough testing of all features (unit, integration, and user acceptance testing).
- Fix any bugs or issues identified during testing.
- Deploy the chatbot to the live website.
- Monitor initial usage and gather feedback for immediate post-launch improvements.

Technical Stack

- **Front-end:** HTML, CSS, JavaScript, React.js
- **Back-end:** Node.js, Express.js
- **Database:** MongoDB or PostgreSQL
- **Natural Language Processing:** Dialogflow, Rasa, or Microsoft Bot Framework
- **APIs:** Yelp API, Google Places API (if time permits for integration)
- **Hosting:** AWS, Heroku, or Google Cloud Platform

Success Metrics

- **User Engagement:** Track the number of interactions and session duration.
- **User Satisfaction:** Gather user ratings and qualitative feedback on recommendations.
- **Recommendation Accuracy:** Measure the percentage of positive feedback on recommendations.
- **Adoption Rate:** Monitor the number of new and returning users.

Post-Launch Plan

- **Immediate Refinements (Week 8-9):** Based on initial user feedback, make quick adjustments and fixes.
- **Ongoing Enhancements:** Plan for additional features like advanced personalization, more detailed database entries, and potential API integrations for reservations and reviews.