

**Team Number: 11**

**Project Title: Multi-agent Interaction Supported by Generative AI**

**Report Date: 09/02/2024**

**Part one: Progress status as a team**

All team members have detailed tasks listed on Teams Planner: YES or NO; if NO, explain.

Yes

**Please answer the following questions:**

- 1. Have you met as a team this past week? If yes, give the date/time, and the members attended the meeting. If not, explain.**

Yes. We met twice this week.

Everyone who attended the meeting:

- Mia Marte
- Joshua Henry
- Trey Bush
- Michael Lavine
- Sebastien Samedy

Dates:

- 09/4/2024
- 09/5/2024

- 2. Have you met with the sponsor as a team? If yes, give date/time, and the member attended the meeting. If not, explain.**

Yes, we met once this week

Everyone who attended the meeting:

- Mia Marte
- Joshua Henry
- Trey Bush
- Michael Lavine
- Sebastien Samedy
- Fernando Koch

Dates:

- 09/5/2024

- 3. Describe verbally the tasks completed the past week and the challenges faced.**

**Tasks completed:**

- Obtained access to our team's OpenAI account, which will enable us to integrate generative AI features effectively.
- Created accounts for our cloud infrastructure, ensuring that our team has the necessary access and resources to start building and testing.
- Started constructing and testing the cloud and database components that will support our chatbot, ensuring they are scalable, reliable, and integrated smoothly with our system.

- Tested various prompts to fine-tune the chatbot's performance, making sure it responds accurately and enhances the user experience for students and instructors.

**Challenges we faced:**

- Getting technical support for Trussed AI.
- Determining a database solution for our project.

4. Describe the tasks to be completed in the coming week.

- Fix our API key error, so we can continue testing our chatbot
- Determine a database solution for our project
- Test our database solution for our project with our chatbot
- Test our chatbot performance

**Two Tables maximum in each report. Last week and current week. Missing tables or too many tables will result in a team penalty. See common areas announcement.**

**Table for last week:**

	# Tasks completed <b>past week</b>	# Tasks not completed	# Tasks for <b>next week</b>
Mia Marte	6	0	2
Joshua Henry	5	0	2
Michael Lavine	6	0	2
Trey Bush	5	0	2
Sebastien Samedy	5	0	2

**Table for next week:**

	# Tasks completed <b>past week</b>	# Tasks not completed	# Tasks for <b>next week</b>
Mia Marte	2	0	2
Joshua Henry	2	0	2
Michael Lavine	2	0	2
Trey Bush	2	0	2
Sebastien Samedy	2	0	2

**Name of the Member: Mia Marte**

**Report Date: 09/02/2024**

List the following:

1. All tasks completed the past week (completion date in parenthesis)
  - ☒ Obtained access to the OpenAI key (08/31/2024)
  - ☒ Tested the chatbot performance (09/5/2024)
2. All tasks you are currently working on (tasks that require more than 1 week) or planned for this coming week (expected completion date in parenthesis)
  - Fix our API key error, so we can continue testing our chatbot (09/13/2024)
  - Tested the chatbot performance (09/13/2024)

For **each** task you have completed **during the past week**:

**1. Obtained access to the OpenAI key**

**Short description:**

- a. We got access to our OpenAI key through Trussed AI. Now, we can implement our API key to our code so we can have unlimited access.

**Outcome of the task activity:**

- b. We finally got access to our API key, so we can continue testing our chatbot without issues.

**2. Tested the chatbot performance**

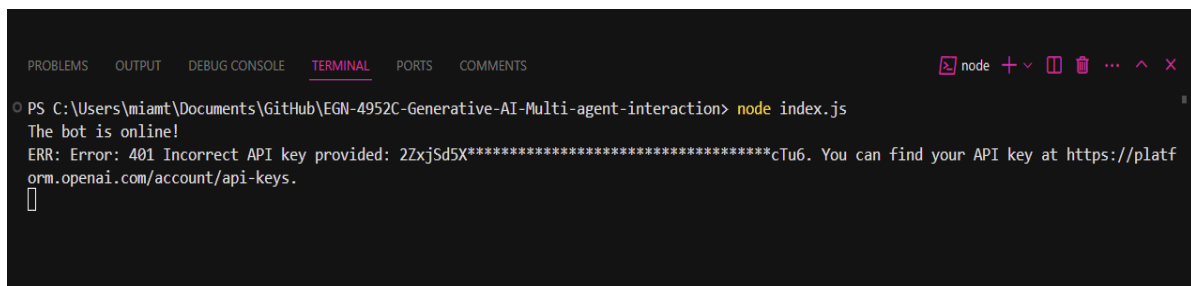
**Short Description:**

- a. We got together as a team to test out our chat performance with the new API key provided to us by TSG. However, the API key provided to us is giving us error and we weren't able to continue testing.

**Outcome of the task:**

- b. We couldn't continue developing our chatbot more due to the key provided to us not working. So we had to contact TSG again so we could get some insights on what to do next.

Error:

A screenshot of a terminal window with a dark background. The terminal shows the command 'node index.js' being executed. The output is 'The bot is online!' followed by an error message: 'ERR: Error: 401 Incorrect key provided: 2ZxjSd5X\*\*\*\*\*cTu6. You can find your API key at https://platform.openai.com/account/api-keys.' The error message is displayed in red text. The terminal window has tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', 'TERMINAL', 'PORTS', and 'COMMENTS'. The 'TERMINAL' tab is active. The window title bar shows 'node' and some window control icons.

For **each** task you are currently working on or plan to work on in the next period:

**1. Fix our API key error, so we can continue testing our chatbot**

**Short description**

- a. After getting the error in the screenshot above, we emailed our TA, and we also contacted our sponsor for extra help. Thankfully, they were able to contact the right people for us so they can help us fix this API key error.

**Outcome of the task activity**

- b. By getting help from the development team that works with Trussed AI, we will be able to finally finish implementing our chatbot.

**2. Test the chatbot performance**

**Short description:**

- a. After fixing our API Key error, we will be able to continue testing the chatbot performance to make sure the chatbot is 100% done so we can finally implement the main features of the chatbot.

**Outcome:**

- b. By making sure the chatbot is 100% good, we can guarantee that our app will run smoothly with no issues.

**Name of the Member: Sebastien Samedy**

**Report Date: 09/02/2024**

List the following:

1. All tasks completed the past week:
  - ✓ Weekly reports/Individual reports (09/05/2024)
  - ✓ Meet up with sponsor (09/05/2024)
2. All tasks you are currently working on:
  - Testing Database with our AI chatbot (09/13/2024)
  - Database Development (09/13/2024)

For **each** task you have completed **during the past week**:

**1. We Met with sponsor**

**Short description:**

- a. Met with sponsor showing him what has been done also to get feedback

**Outcome of the task activity:**

- b. We were able to get clear feedback and new ideas that can be integrated enhancing the overall project

**2. Weekly reports**

**Short Description:**

- a. Our weekly reports were completed

**Outcome of the task:**

- b. It allowed us to keep track of what is being done and what needs to be done next. It also provided a sense of clarity

For **each** task you are currently working on or plan to work on in the next period:

**1. Continuing our database dev**

**Short description:**

- a. Focused on developing the SQLite database and conducting research to optimize its performance with our ai chatbot.

**Outcome:**

- b. The SQLite database would allow for effective storage and retrieval of data, enabling the chatbot to manage conversations and user data more efficiently.

**2. Testing database with our AI chatbot**

**Short description:**

- a. Verifying that the correct data is being stored and retrieved efficiently

Outcome:

- b. Discovering and addressing any issues or bugs in the database integration, leading to a more stable chatbot.

**Name of the Member: Michael Lavine**

**Report Date: 09/02/2024**

List the following:

1. All tasks completed the past week (completion date in parenthesis)
  - ✓ I contacted TSG for help with an API error. (9/03/2024)
  - ✓ Compared database solutions for feasibility in our project (09/03/2024)
  - ✓ Meet with sponsor (09/5/2024)
  - ✓ Weekly reports/Individual reports (09/5/2024)
2. All tasks you are currently working on (tasks that require more than 1 week) or planned for this coming week (expected completion date in parenthesis)
  - Creating a test schema for our database to model the needed data (9/11/2024)

For **each** task you have completed **during the past week**:

- 1. I contacted TSG for help with an API error.**

**Short description:**

- a. The Trussed AI key our group was provided with was not working properly and returned an error.

**Outcome of the task activity:**

- b. We were put into contact with a development team that could give support on the issue. The error has not been resolved yet, however.

- 2. Compared Database Solutions**

**Short Description:**

- a. Our project requires a database, so I did research on how a simple SQL database would compare to MongoDB or other relational databases.

**Outcome of the task:**

- b. I determined that a small SQLite database will be more than adequate for our needs without adding unnecessary complication.

- 3. Meet up with sponsor**

**Description:**

- a. Since our team's concept of M1 was not approved, we met with our sponsor to determine what exactly would fulfill his requirements.

**Outcome:**

- b. The team sponsor was able to give us a direct and concrete description of what M1 material and the interface of our program would look.

#### **4. Weekly reports**

##### **Description:**

- a. As a team we met to write a weekly report that describes our efforts so far.

##### **Outcome:**

- b. All members contributed and a report was finished.

For **each** task you are currently working on or plan to work on in the next period:

#### **1. Create a test schema and determine needed information for our database**

##### **Short description**

- a. We need to work out exactly what information needs to be stored about each user in our database.  
I will create a test schema to see if it can manage all the needed information.

##### **Outcome of the task activity**

- b. We will have a better idea of what data we are dealing with, and we may start to organize our data for storage.

**Name of the Member: Joshua Henry**

**Report Date: 09/02/2024**

1. Tasks completed:

☒ Weekly reports/Individual reports (09/05/2024)

☒ Meet up with sponsor (09/05/2024)

2. All tasks you are currently working on

○ Determine a database solution for our project (09/13/2024)

○ Test our database solution for our project with our chatbot (09/13/2024)

### 1. Weekly reports/Individual reports

**Short description:**

- a. This week consisted of filling out and completing the required reports to ensure that everyone is up to speed on our current progress

**Outcome of the task activity:**

- b. We were able to indeed confirm that everyone is on the same page to continue progress with our project this semester

### 2. Meet up with sponsor

**Short Description:**

- a. We were able to meet with our project sponsor and explain the current progress of our project, along with discussing next steps.

**Outcome of the task:**

- b. The sponsor was able to provide next steps about our current issues and helped us to contact the necessary individuals to move things forward.

For **each** task you are currently working on or plan to work on in the next period:

### 1. Determine a database solution for our project

**Short description**

- a. The right database solution must be used to make sure that it suits our needs for information that must be stored to keep track of class information. We have considered pros and cons such as mongoDB vs something like SQLite

**Outcome:**



- b. SQLite (as mentioned by my team member) has proven to be the better option when it comes down to the right solution for our use case.

## **2. Test our database solution for our project with our chatbot**

### **Short description:**

- a. We have to successfully test the database with the chatbot to try and see if the interactions between users and the bot can be stored within the database and a result is present.

### **Outcome:**

- b. We will be able to have a beautiful connection between the chatbot interaction with users and our database, keeping track of everything in a smooth manner.

**Name of the Member: Trey Bush**

**Report Date: 09/02/2024**

List the following:

1. All tasks completed the past week:
  - ☐ Weekly reports/Individual reports(09/05/2024)
  - ☐ Meet up with sponsor(09/05/2024)
2. All tasks you are currently working on:
  - o Finishing integrating the chatbot with OpenAI (09/09/2024)
  - o Database Development (09/15/2024)

For **each** task you have completed **during the past week**:

**Met with Sponsor**

- 1) **Description:**
  - a) We met with our sponsor and showed him what we have accomplished so far
- 2) **Outcome:**
  - a) We were able to show our progress and get feedback as well as our next steps for the following week

**Weekly reports**

- 3) **Description:**
  - a) We filled out the report template as a team
- 4) **Outcome:**
  - a) We were able to complete the report, check off what he completed off the list, and ensure that everyone was on the same page

For **each** task you are currently working on or plan to work on in the next period:

**1. Database Development**

**Short description:**

- a. Now that we found our ideal database we are building it and slowly integrating our information into it

**Outcome:**

- b. We will have a place that's safe, where our data won't be manipulated or viewed by others, just our team.

## **2. Finishing Integrating the chatbot with OpenAI**

### **Short description:**

- c. After all the testing is done and all the errors are fixed, we must complete the integration of Open AI

### **Outcome:**

- d. Our chatbot will be able to accurately respond and meet demands