Write Update Report Group 6

Date Created	@September 5, 2023 1:11 AM
Start Date	@November 6, 2023
Status	In progress

Procedure

Following Step	Objective	Instructrion
Identify Change	Imperial changes - Define impacts on the development stage.	**1. Type**: <enter choice> [(*New Feature*; *Bug Fix*; Applied new test] **2. Intruction**: <Applied changes and updated newest version>
Gather Feedback	Review and commit changes in the new construction.	**Distribution for Review/Approval**

Revision History

Date	Version	Summary of Change	Author
<dd/Mmm/yyyy>	<x.y>	<Section> - <Change>	<First Name + Last Name>
8 Nov 2023	0.1	Initial version	Quang Huy

09 Nov 2023	0.2	**1. Type:** New Feature **2. Instruction:** Add full application of ChatGPT API into Line Service Chatbot	Hazdik Kurniawan, Quang Huy
10 Nov 2023	1.0	**1. Type:** New Feature **2. Instruction:** Comprehence extraction solution for nouns and responsive content.	Hazdik Kurniawan
18 Nov 2023	1.1	**1. Type:** Applied new test **2. Instruction:** Comprehence sample front end to make clone chat interaction.	Quang Huy

Distribution for Review/Approval

Name	Issue Version	Issue Date	Review Date	Approval Date
<First Name + Last Name>	<x.y>	<dd/Mmm/yyyy>	<dd/Mmm/yyyy>	<dd/Mmm/yyyy>

A. Preparation

▼ Introduction

▼ Purpose

A. Vision

1. Create a website, where the user can chat with the bot, and during chat, generate an advertisement using the last text with the user.
2. From the last few texts, get some important keywords, then send a request to ChatGPT with the collected keywords, and then generate an advertisement.

B. Goal

1. Know how to use the ChatGPT model and generate images using ChatGPT.
2. Make effects on friendly user flatform and daily function help improve social contact and business development.

▼ Scope

Making changes every week and due to progress finding the optimal way to gain effective impact on the model.

1. Language model

   Use Open API by buildiing ChatGPT react-node.js

2. Prompt Practice

   a. Clear instruction

   b. Adopt a persona

   c. Specific the format

   d. Avoid leading the answer

   e. Limit the scope

3. Vector/ Text Embedding

▼ References

For this case we're using chatbot API, this is the code repository https://github.com/hazdikk/ChatLineAI, and after a discussion with you last week, we will focus on how to get keywords from a recent chat with the bots, then generate advertisements with the keywords.

▼ Positioning

Complete the next stage and the continuous phrase.

▼ A. Previous phrase

We have successfully integrated the ChatGPT API with our LINE bot, establishing a dedicated endpoint to function as a webhook. This setup allows the LINE bot to interact with the endpoint I have developed, facilitating seamless communication. The service is built using Java Spring Boot, ensuring robust and efficient performance. Impressively, our LINE bot now exhibits capabilities akin to human-like interactions and image creation, all powered by the versatile functions of ChatGPT. This integration marks a significant milestone in our project, enhancing the bot's interactivity and user engagement.

▼ B. Current phrase

This week, our team achieved a new significant milestone in integrating Natural Language Processing (NLP) techniques to extract keywords from conversations, particularly focusing on nouns. This breakthrough in NLP application forms the foundation for our next phase, where we will employ generative AI to create targeted advertisements. These ads will be dynamically generated based on the extracted keywords, ensuring high relevance and engagement. Additionally, we are developing a user-friendly frontend using React JS, which will facilitate seamless communication with our backend API. This integration not only enhances the efficiency of our ad creation process but also promises a more personalized experience for the end users.

Built up overview

Interface Completions

```
<!--index.html-->
<!doctype html>
<html>
    <head>
        <title>App Meaning</title>
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Playfair+Display+SC:wght@
700&family=Poppins:wght@400;700&display=swap"        rel="stylesheet">
        <link rel="stylesheet" href="index.css">
    </head>

    <body>
        <header>
            <img src="./images/logo-app.png" alt="AppMeaning">
            <a href="/"><span>App</span>Meaning</a>
        </header>
        <main>
              <!-- The Setup -->
              <section id="setup-container">
                <div class="setup-inner">
                    <img src="/images/AIFigure.png">
                    <div class="speech-bubble-ai" id="speech-bubble-ai">
                        <p id="figure-text">
                            Give me a one-sentence you love and I'll give you an inter
actions beyond your nead, a most wanted given time you will love, a super unexpected c
art full of gift you don't let you down...
              AND choose the products you most needed!
                        </p>
                    </div>
```

```
                </div>
                <div class="setup-inner setup-input-container" id="setup-input-contain
er">
                    <textarea id="setup-textarea" placeholder="How an evil genius want
s to take over the world using AI."></textarea>
                    <button class="send-btn" id="send-btn" aria-label="send">
                            <img src="images/send-btn-icon.png" alt="send">
                    </button>
                </div>
            </section>
              <!-- The Output -->
             <section class="output-container" id="output-container">
                <div id="output-img-container" class="output-img-container"></div>
                <h1 id="output-title"></h1>
                <h2 id="output-stars"></h2>
                <p id="output-text"></p>
            </section>
        </main>
        <footer>
            &copy; 2023 MoviePitch All rights reserved
        </footer>
        <script type="module" src="index.js"></script>
    </body>
</html>
```

The active selection is an HTML document that structures a web page. HTML (HyperText Markup Language) is the standard markup language for documents designed to be displayed in a web browser (Figure 1).

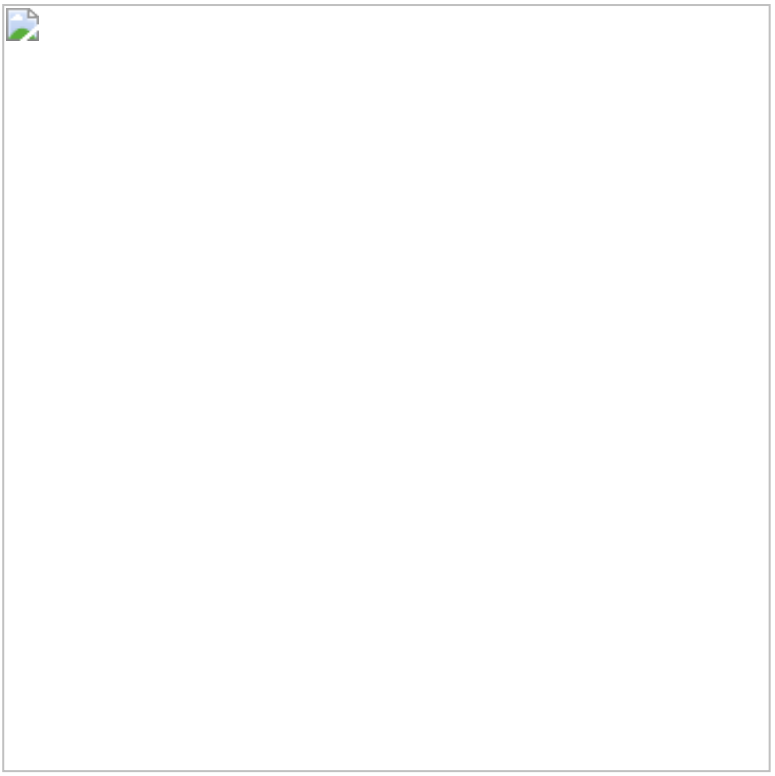

Figure 1: Web design interface

The styling and Google Fonts for typography links to index.css. In following body, the main page section divided into several sections:

1. Header contains logo and title of the application.
2. The container approaches is the main interaction area combining still figure with changing content bubble. Input box and effects loading will make the interaction more reliable.

```
/**
 * This CSS file contains styles for the index.html file of the ChatGPT_Diss project.
 * It defines variables for colors, typography, sections, setup, buttons, output, and
footer.
 * The styles are applied to the root element, html, body, header, main, section, .set
up-inner, .speech-bubble-ai, textarea, button, .output-container, and footer.
 * The file also includes media queries for larger mobile devices.
 */
/*index.css */
:root {
    --white: #ffffff;
    --light: whitesmoke;
    --light-grey: #e8e8e8;
    --pink: #ff176b;
    --medium-dark: #777;
    --dark: #242526;
    --border-rad-lg: 15px;
}
```

```
html, body {
    margin: 0;
    padding: 0;
    font-size: 16px;
}

body {
    font-family: 'Poppins';
    background-size: cover;
    background-repeat: repeat-y;
    background-image: url('images/bg-dark.jpg');
    height: 100vh;
    display: flex;
    flex-direction: column;
    justify-content: space-between;
}

/* =================
      Typography
     ================= */

h1 {
    font-family: 'Playfair Display SC', serif;
    text-align: center;
}

h2 {
    font-size: 1.3em;
}

p {
    line-height: 1.35em;
}

/* =================
      Sections
     ================= */

header {
    background-color: var(--dark);
    display: flex;
    justify-content: center;
    align-items: center;
    gap: .3em;
}

header>img {
    height: 26px;
}

header>a {
    color: var(--light);
    font-size: 1.5em;
    text-decoration: none;
    padding: 1em 0;
```

```
}

header span {
    font-weight: 700;
}

main {
    padding: 0 1em;
}

section {
    margin: 0 auto;
    background-color: var(--light);
    border-radius: var(--border-rad-lg);
    padding: .25em 1em;
    box-shadow: 0px 1px 18px 3px var(--dark);
    max-width: 420px;
}

/* =================
      Setup
     ================= */

.setup-inner {
    display: flex;
    justify-content: space-around;
    padding: 1.5em .5em;
    min-height: 234px;
}

.setup-inner>img {
    width: 40%;
    filter: drop-shadow(3px 2px 3px var(--medium-dark));
    align-self: center;
}

.setup-input-container {
    min-height: 74px;
}

.speech-bubble-ai {
    max-width: 55%;
    min-height: 124px;
    border-radius: var(--border-rad-lg);
    position: relative;
    margin: 0;
    border: 3px solid var(--medium-dark);
    background-color: var(--white);
    align-self: flex-start;
    display: flex;
    align-items: center;
}

.speech-bubble-ai:before {
    content: "";
    position: absolute;
```

```
    border-left: 9px solid transparent;
    border-right: 9px solid var(--medium-dark);
    border-top: 9px solid var(--medium-dark);
    border-bottom: 9px solid transparent;
    left: -21px;
    top: 64px;
}

.speech-bubble-ai:after {
    content: "";
    position: absolute;
    border-left: 7px solid transparent;
    border-right: 7px solid var(--white);
    border-top: 7px solid var(--white);
    border-bottom: 7px solid transparent;
    left: -11px;
    top: 68px;
}

.speech-bubble-ai>p {
    padding: 0 1.3em;
    color: var(--dark);
    font-size: 85%;
}

textarea {
    background-color: var(--light-grey);
    padding: .8em;
    border: none;
    border-top-right-radius: 0;
    border-top-left-radius: var(--border-rad-lg);
    border-bottom-right-radius: 0;
    border-bottom-left-radius: var(--border-rad-lg);
    width: 100%;
    resize: none;
    min-height: 40px;
    box-sizing: border-box;
    font-family: 'Poppins', sans-serif;
}

textarea::placeholder {
    color: var(--medium-dark);
    font-size: 88%;
    opacity: 0.8;
}

/* larger mobiles+ */

@media(min-width: 380px) {
    .setup-input-container {
        padding-top: 0;
    }

    .speech-bubble-ai:before {
        top: 92px;
    }
```

```
    .speech-bubble-ai:after {
        top: 96px;
    }

    .speech-bubble-ai>p {
        font-size: 100%;
    }

    textarea::placeholder {
        font-size: 100%;
        opacity: 0.8;
    }
}

/* =================
      Buttons & SVG
     ================= */


button {
    border: none;
    background: var(--pink);
    cursor: pointer;
}

button:hover {
    background-color: var(--dark);
}

.send-btn {
    border-top-right-radius: var(--border-rad-lg);
    border-bottom-right-radius: var(--border-rad-lg);
    min-width: 50px;
}

.send-btn>img {
    width: 1.6em;
    vertical-align: middle;
}

.view-pitch-btn {
    color: var(--light);
    border-radius: var(--border-rad-lg);
    padding: 1em;
    margin: .4em auto;
    display: block;
    font-size: 1.2em;
}

.view-pitch-btn:hover {
    box-shadow: 1px 1px 5px 1px var(--medium-dark);
}

img.loading {
    max-width: 40px;
```

```
    filter: none;
}

/* =================
      Output
     ================= */

.output-container {
    display: none;
    flex-direction: column;
    margin: 1em auto;
    color: var(--dark);
    padding: 1em;
}

.output-img-container>img {
    max-width: 100%;
    border-radius: var(--border-rad-lg);
    box-shadow: 1px 1px 5px 1px var(--dark);
}

/* =================
      Footer
     ================= */

footer {
    background-color: var(--dark);
    color: var(--light);
    padding: .8em;
    font-size: .7em;
    text-align: center
}
```