

**VIETNAM NATIONAL UNIVERSITY - HO CHI MINH CITY**

**UNIVERSITY OF SCIENCE**

Faculty of Information Technology



# **CHATBOT - PA4**

## **UI PROTOTYPE DESIGN**

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Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

# <Chat Bot Application> UI Prototype

Version <1.0>

Chat Bot	Version: <1.0>
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## Revision History

Date	Version	Description	Author
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Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

## Table of Contents

<b>Revision History</b>	<b>3</b>
<b>1. Introduction</b>	<b>5</b>
<b>2. Components' Figma Design</b>	<b>5</b>
2.1. Authentication and Authorization:	5
2.1.1. Login frame	5
2.1.2. Register account:	6
2.1.3. Recover password:	7
2.2. Chat with AI Agents:	9
2.2.1. Model choosing frame	9
2.2.2 Chating Frame	9
2.3. Create and manage AI BOT:	11
2.3.1. Display/Find bots:	11
2.3.2. Create new bot:	12
2.3.3. Update/Delete AI BOT:	13
2.3.4. Update prompt for AI BOT:	14
2.3.5. Communicate with created AI BOT through Chat widget:	15
2.3.6. Add/Remove knowledge data:	16
2.3.7. Publish AI Chat to Slack, Telegram, Messenger:	18
2.4. Knowledge Data Management:	19
2.4.1 Knowledge Data management screen	19
2.4.2 Add knowledge data source:	20
2.5. Prompt Management:	22
2.6. Upgrade account to Pro:	25
2.6.1 Main frame:	25
2.6.2 : Upgrade frame:	26
2.6.3 Monetization:	27
2.7. Photo Chating:	28
2.7.1. Take picture or upload picture:	28
2.7.2. Chat with picture:	29
2.8. Email with AI Agents:	30

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

# 1. Introduction

This document provides an overview of the design and functionality of the application chatbot's user interface (UI), outlining key components and user interactions. The UI prototype will provide a clear, visual representation of the system's features and interactions to ensure a seamless and intuitive experience for users.

The display products were created using Figma software and the project aimed to create a platform interface for the Chat Bot application. Finally, the operating basis will be created, practically applied and made available to users.

## 2. Components' Figma Design

### 2.1. Authentication and Authorization:

#### 2.1.1.Login frame

**Purpose:** Allows users to log in to their account and use services within the software when the user already has that account or account from third party (google, apple)  
. Or if not, users can choose to register or reset their password in case they forget their password.

**How to use:**

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

1. Continue with Google: Allows users to use a Google account to sign in.
2. Continue with Apple: Allows users to use their Apple account to sign in.
3. Or enter email address and password.
4. If the user does not have an account, they can select "Sign up" to register. If they forget their password, they can select "Forget password" to recover.
5. When users enter enough information and select "Go", they will be logged into the chatbot application.

#### Displayed Frame Elements:

1. **Image background:** screen background image
2. **3rd party login options:** Choose to log in with a 3rd party (google / apple)
3. **User account information input box:** input box of username and password
4. **Go option:** submit form box when user complete input.
5. **Sign-up option:** Select when the user does not have an account
6. **Forget password option:** Choose when the user forgets their account password and wants to retrieve it

#### 2.1.2. Register account:



#### Create your account

Continue

Go back

**Purpose:** The account registration screen provides users with an interface to create a new account on the system. Users will enter the necessary information (email and password) to proceed with registration.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

#### How to use:

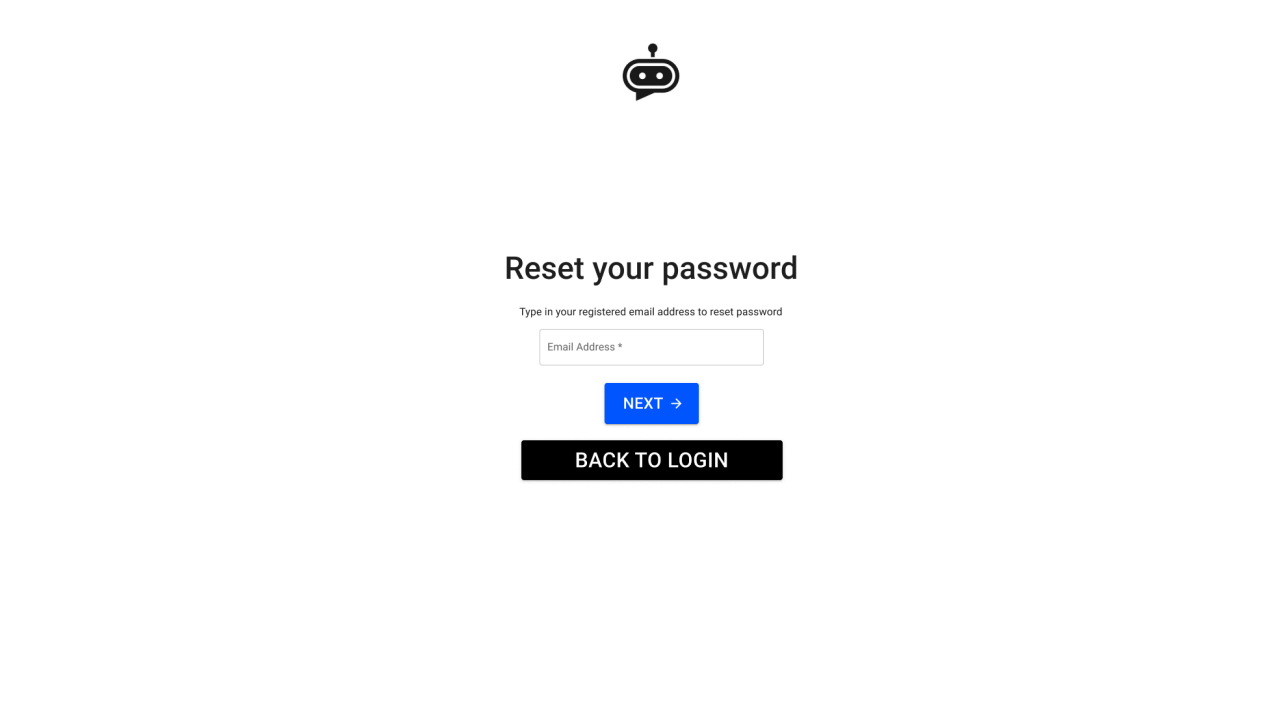
1. The user opens the registration screen and enters information in the required fields: email and password.
2. After completed, the user presses the "Continue" button to continue the registration process.
3. If the user wants to go back or change their decision, they can press the "Go back" button to return to the previous screen.

#### Displayed Frame Elements:

1. **Email input box:** User enters a valid email address in this box. This is important information to authenticate your account and receive notifications from the system.
2. **Password input box:** Users create a secure password for their account in this box. Passwords need to meet minimum security requirements (for example, at least 8 characters, including uppercase letters, lowercase letters, numbers and special characters).
3. **"Continue" button:** After entering email and password, users press this button to continue the account registration process, for example, move to the email confirmation step or enter additional personal information.
4. **"Go back" button:** This button allows the user to return to the previous screen (for example, return to the home page or login page).
5. **Logo chat bot**

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

### 2.1.3. Recover password:



**Purpose:** The **"Reset Your Password"** screen helps users recover their password if they forget their password or cannot log in to their account. The user will enter their registered email address and the system will send a password reset link to that email.

#### How to use:

1. **Enter Email Address:**
  - When users access this screen, the email input box is required. Users will enter the email address they registered with in the "Email Address" box.
  - The system will check the validity of the email. If the email is invalid (for example, the format is wrong), the system will display a message asking the user to re-enter the email in the correct format.
2. **After entering the email, the user presses the "Next" button to continue:**
  - If the email address is valid and there is an associated account, the system will send an email containing a link or confirmation code to the user to continue the password reset process.
3. **Return to the login screen:**
  - If the user remembers the password or wants to return to the login screen without changing the password, they can press the **"Back to Login"** button.

#### Displayed Frame Elements:

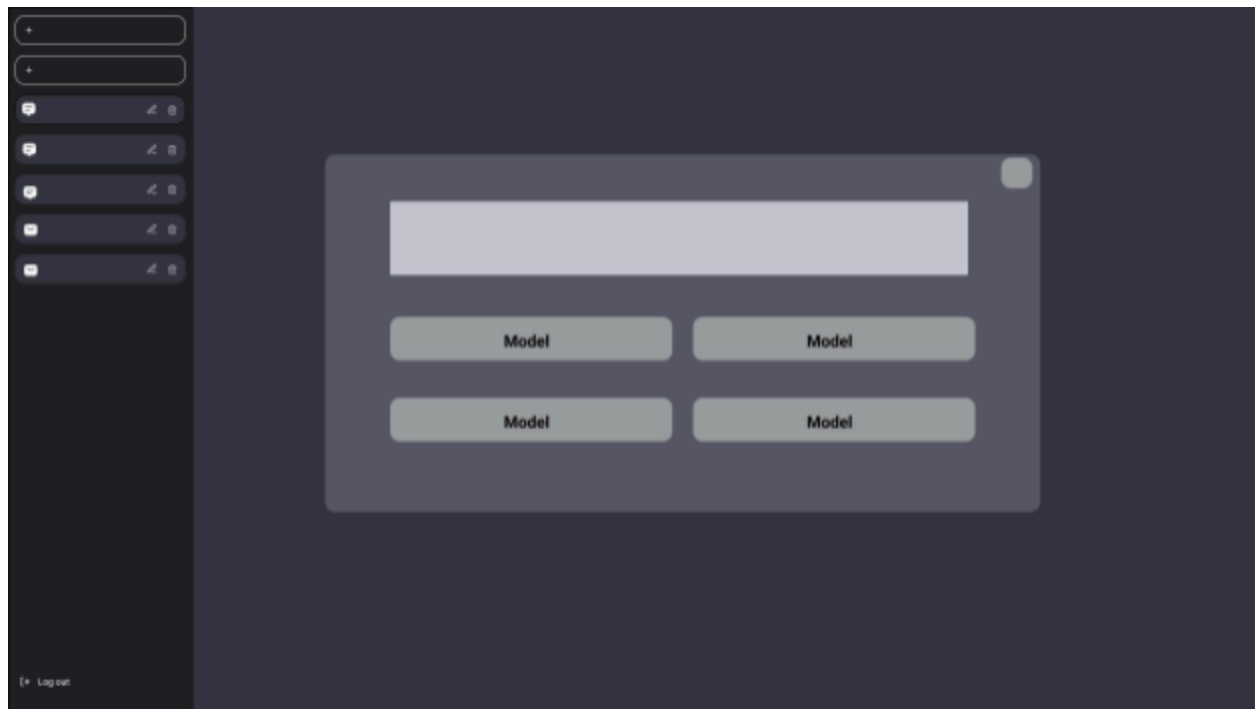


Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

1. **Email Address input box:** The user enters the email address they used when registering an account. This is important information for the system to authenticate and send a link to reset your password.
2. **"Next" button:** After entering the email, the user presses the "Next" button to continue the password reset process. This button will send a request to the system to send a link or confirmation code via email.
3. **"Back to Login" button:** This button allows users to return to the login screen, if they have remembered their password or want to re-enter their login information.
4. **Logo chat bot**

## 2.2. Chat with AI Agents:

### 2.2.1. Model choosing frame



Choose Model Frame

**Purpose:** allow users to choose or switch between different AI models before starting or continuing a chat session. Additionally, it provides a notification panel for users to manage updates and alerts.

#### How to Use:

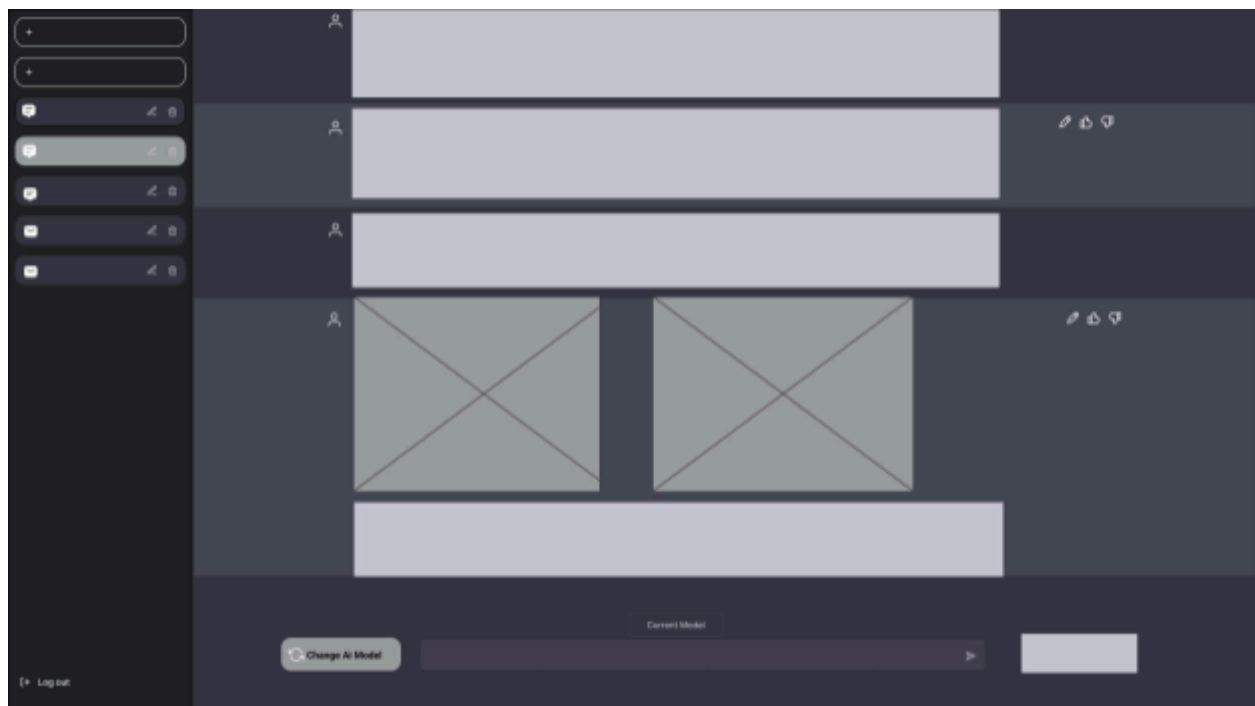
1. Select an AI model by clicking on one of the "Model" buttons provided on the interface.
2. The chosen model will be applied to the chat session.
3. Notifications can be accessed and managed via the panel on the left-hand side.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

### Displayed Frame Elements:

1. **Model Selection Buttons:** Four buttons to choose an AI model.
2. **Notification Panel:** A sidebar on the left-hand side displaying user notifications.
3. **Logout Option:** Located at the bottom of the sidebar
4. **Main Interface:** The central area for selecting and confirming the AI model.

### 2.2.2 Chating Frame



Chat Frame

### Purpose:

The Chat Frame is designed to facilitate real-time interaction between the user and the selected AI model. It allows users to input text, view AI responses, and manage conversation tokens.

### How to Use:

1. **Text Input:** Type a message in the input box at the bottom of the screen, press Enter or click the send button to submit the input.
2. **AI Responses:** The AI's text-based responses will appear in the white boxes, while image-based outputs (if any) will display in the grey areas.
3. **Token Usage Display:** a token counter is displayed in the bottom-right corner, showing the number of available or used tokens for the current session.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

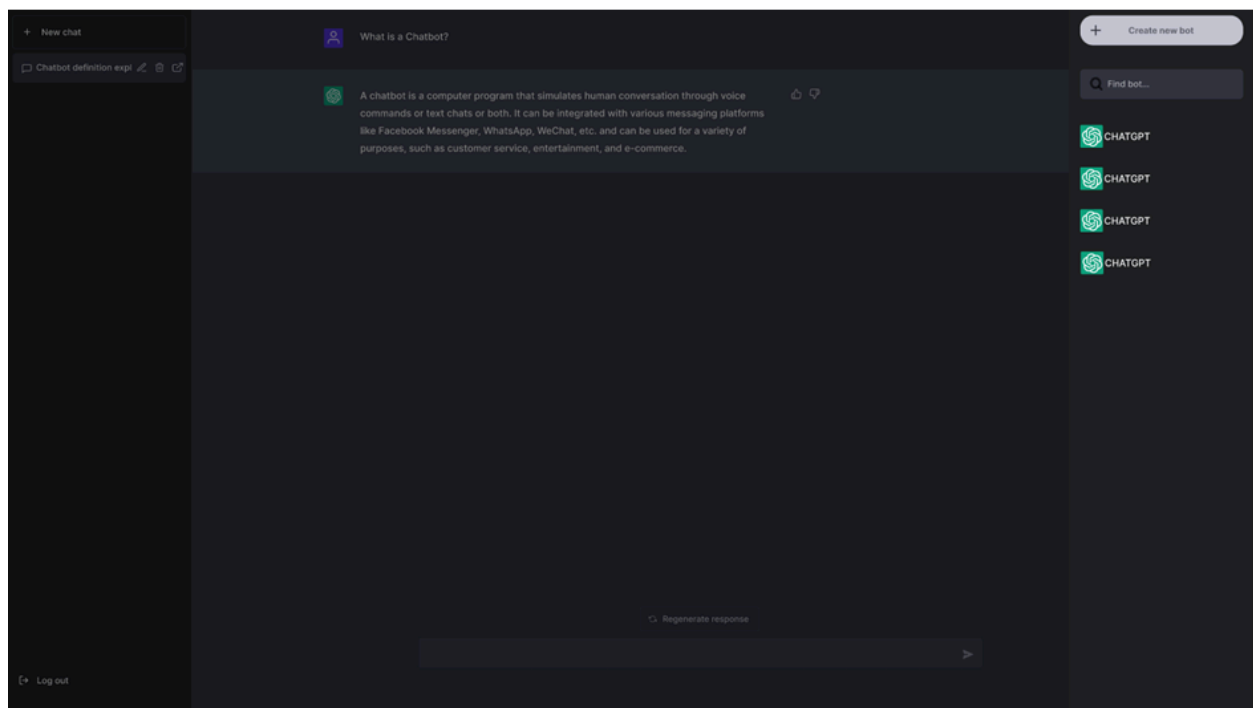
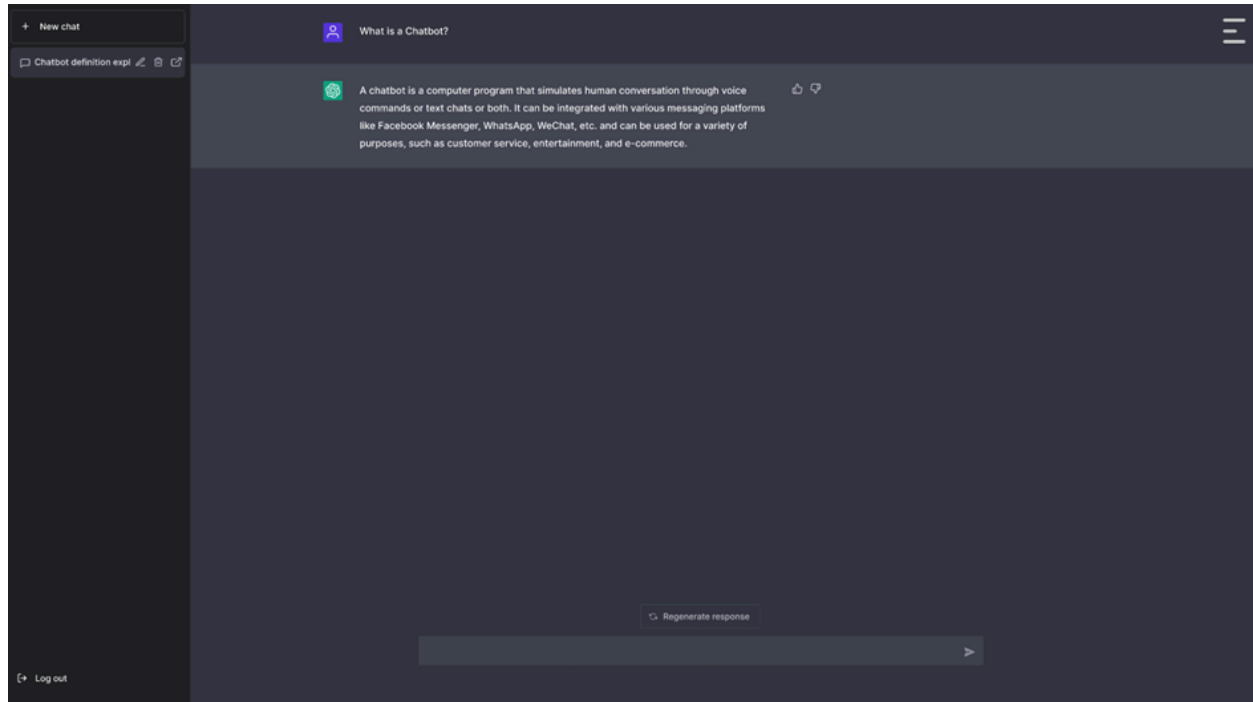
### Displayed Frame Elements:

1. **Conversation History:** Displays user inputs and AI responses in chronological order with separate sections for text and images.
2. **Sidebar:** Provides access to the notification panel, previous conversations, and logout options.
3. **Bottom Controls:** Includes the text input box, a button for changing the AI model, and the token usage display.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

## 2.3. Create and manage AI BOT:

### 2.3.1.Display/Find bots:



Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

**Purpose:** Displays the user's bot list, allowing the user to create, find, update, remove and select bots.

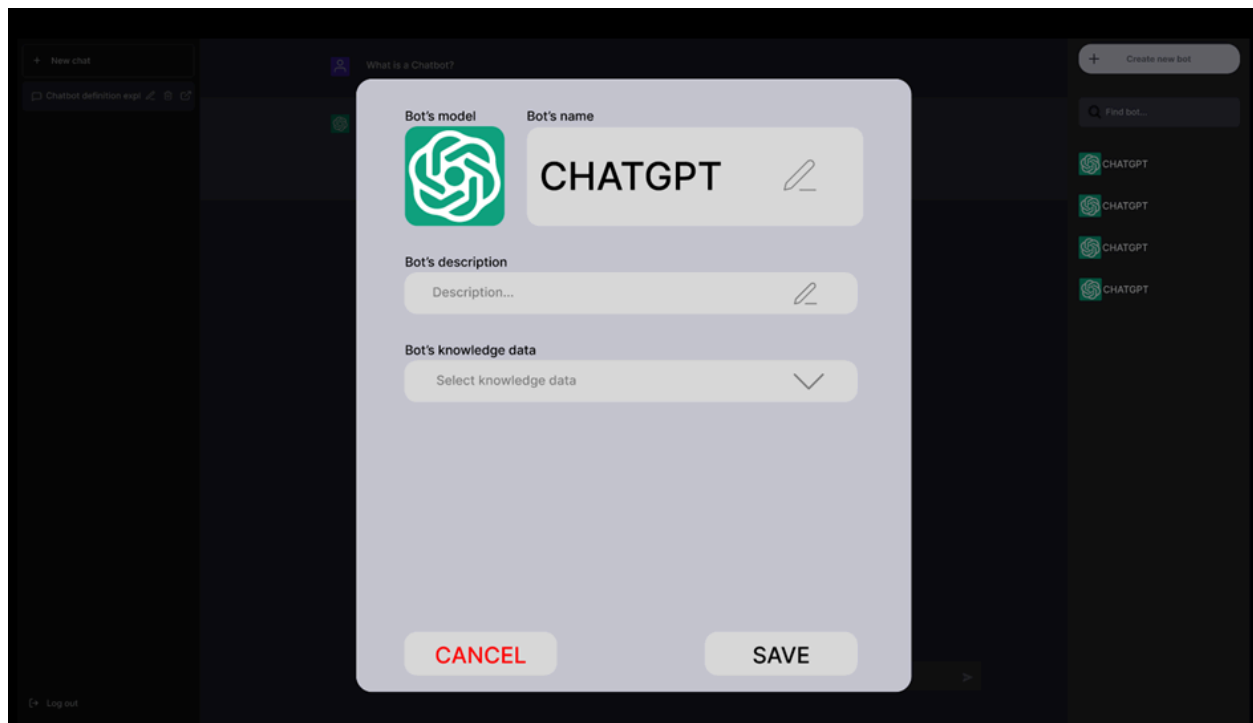
**How to use:**

1. Select the navigation icon on the top right of the UI.
2. User can find a bot by entering its name in the search bar.

**Displayed Frame Elements:**

1. **Navigation button:** select to display the bot list UI.
2. **“Create new bot” button:** select to create new AI bot.
3. **Search bar:** enter a bots name to find it.
4. **Bot list:** a list of AI bots that the user has created.

### 2.3.2. Create new bot:



**Purpose:** Allows user to create new AI bot with customizable model, name, description and knowledge data.

**How to use:**

1. From the bot list UI, select “Create new bot” button on the top right.

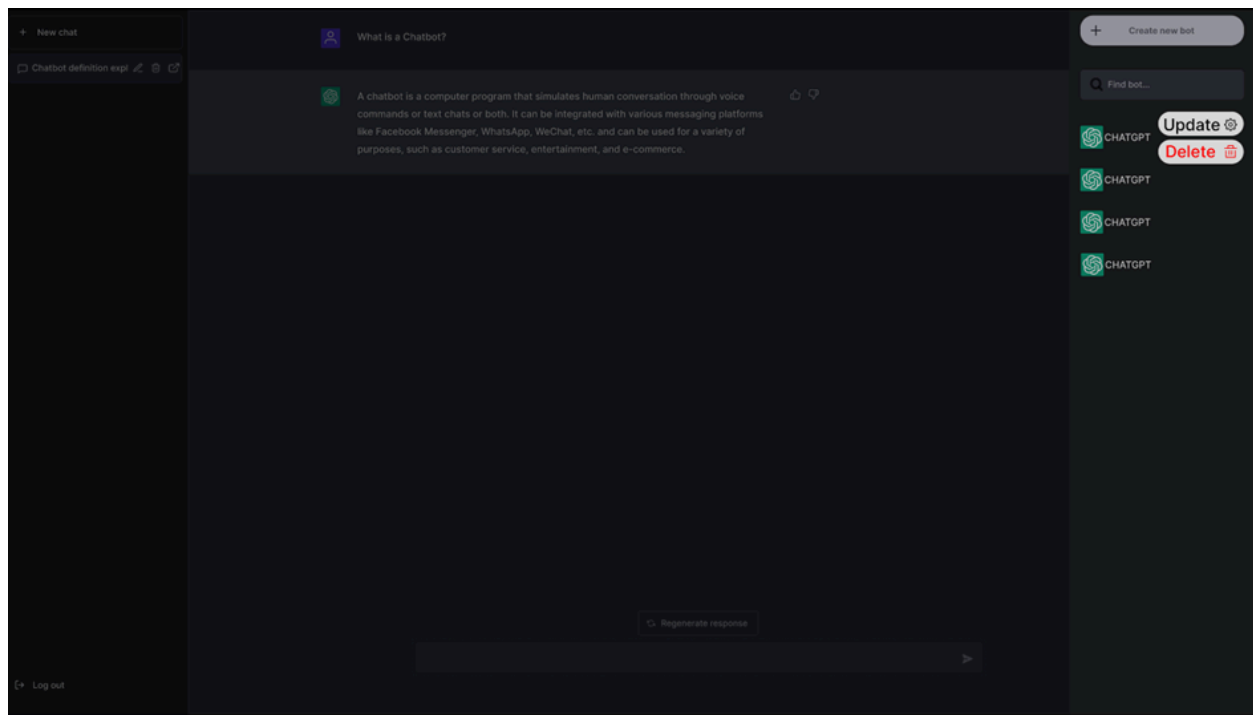
Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

2. User can then select the bot's model, knowledge data; enter its name, description by clicking the UI elements.
3. User selects "CANCEL" to discard all changes and return to the previous menu or "SAVE" to create a new bot.
4. System will then redirects the user to the new AI bot's chat screen.

#### Displayed Frame Elements:

1. **"Bot's model" element:** select to choose an AI model for the bot.
2. **"Bot's name" element:** select to change the bot's name.
3. **"Bot's description" element:** select to change the bot's description.
4. **"Bot's knowledge data" element:** select to add/remove knowledge data.

### 2.3.3. Update/Delete AI BOT:



**Purpose:** allows the user to update the bot's information or remove it from the system.

#### How to use:

1. From the bot list UI, right click on the bot that the user wants to update or remove.
2. Select "Update" or "Delete" button:
  - a. Select "Delete": system deletes the bot's data and removes it from the system.

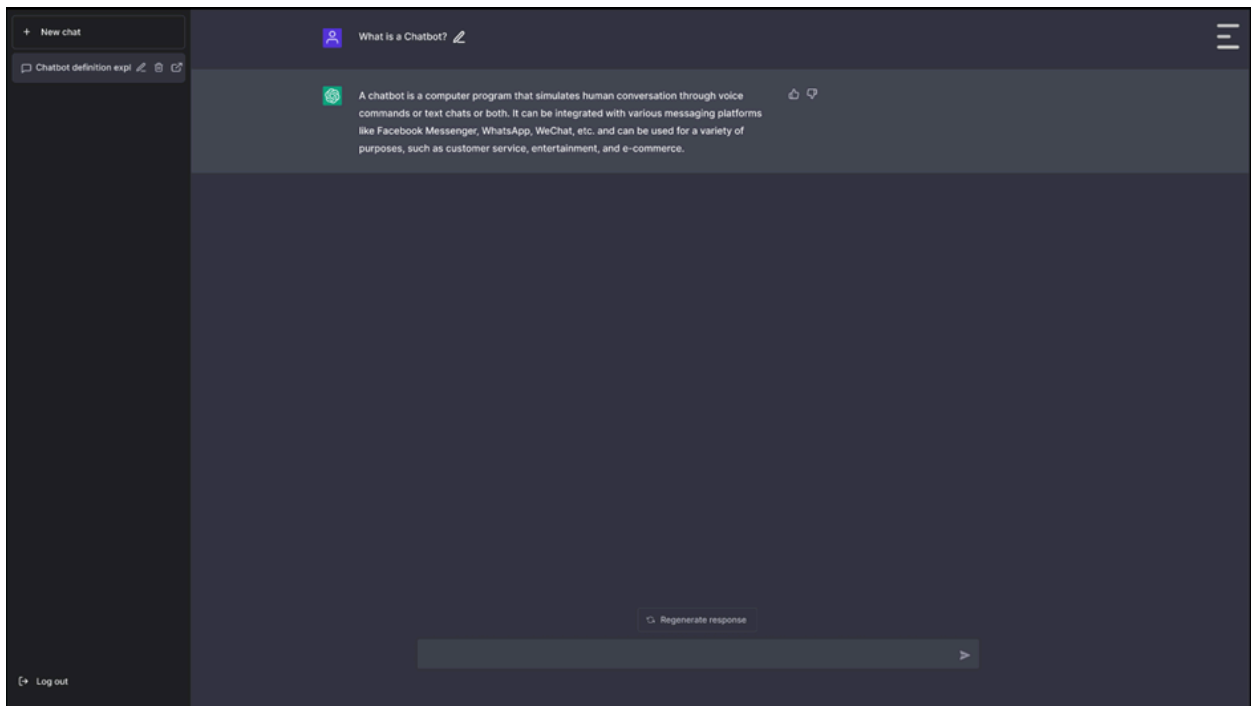
Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

- b. Select “Update”: system redirects the user to “Create new bot” menu where user can change everything about the bot but its model.

#### Displayed Frame Elements:

1. **“Update” button:** select to update the bot’s information.
2. **“Delete” button:** select to remove the bot from the system.

### 2.3.4.Update prompt for AI BOT:



**Purpose:** allows the user to change the message that they sent the AI bot.

#### How to use:

1. User hovers their mouse cursor over the newest prompt that they sent the AI bot.
2. A “pencil” icon will appear, selecting the icon allows the user to change that prompt.
3. The bot will change its response based on the new prompt.

#### Displayed Frame Elements:

1. **“pencil” icon:** select to change the prompt.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

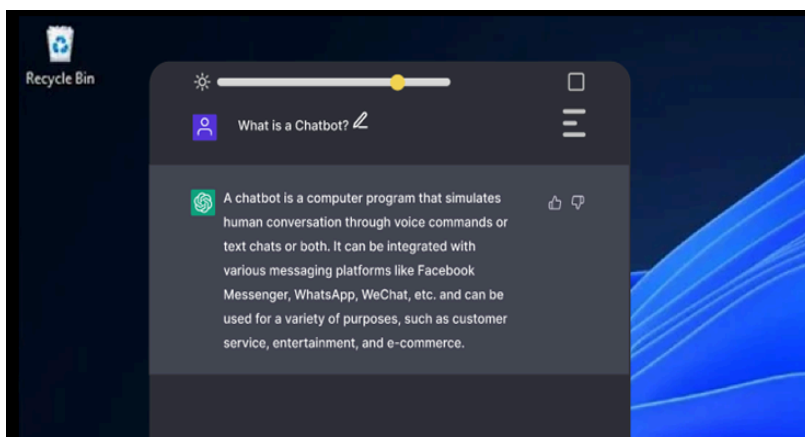
### 2.3.5. Communicate with created AI BOT through Chat widget:



**Purpose:** allows the user to chat with a bot through chat widget.

**How to use:**

1. The bot's chat widget floats on the user's screen.
2. User can chat with the bot or customize it just like on the normal UI.
3. User can change the opacity of the widget by selecting the "opacity" icon on the top left.



4. User can move the widget on their screen by selecting and holding their mouse at the top of the widget.



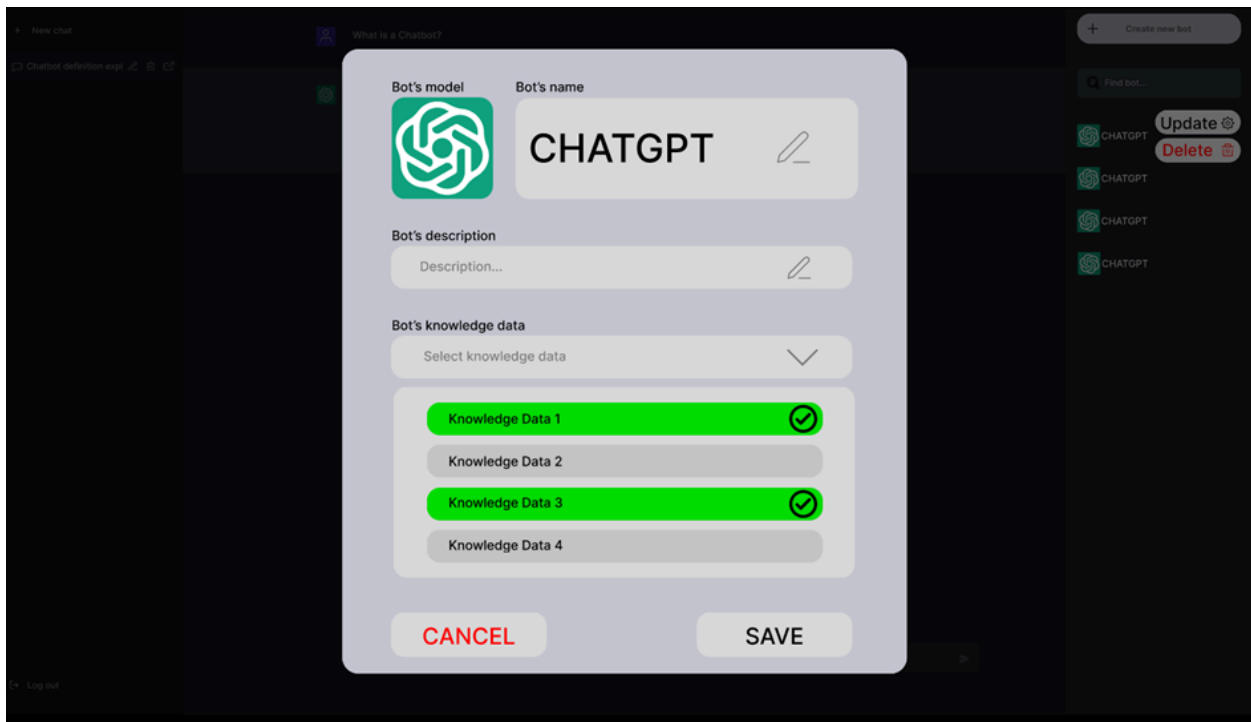
Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

5. User can go to the main app/website by selecting the “home” icon on the top right.

#### Displayed Frame Elements:

1. **The chat widget:** allow user to interact with the bot through a widget.
2. **“opacity” icon:** select to change the widget’s opacity.
3. **“home” icon:** select to go to main app/website.

#### 2.3.6. Add/Remove knowledge data:



**Purpose:** allows the user to add knowledge data into the AI bot or removes a knowledge data that the bot already learnt.

#### How to use:

1. From the “Create new bot” or “Update” menu, select the “arrow down” icon in the “Select knowledge data” bar.
2. Click a knowledge data to add it to or remove it from the bot:
  - a. If a knowledge data is “gray”, it has not been added into the bot.
  - b. If a knowledge data is “green”, the bot has already learnt it.
3. Select “CANCEL” to discard all changes or “SAVE” to save the new changes.

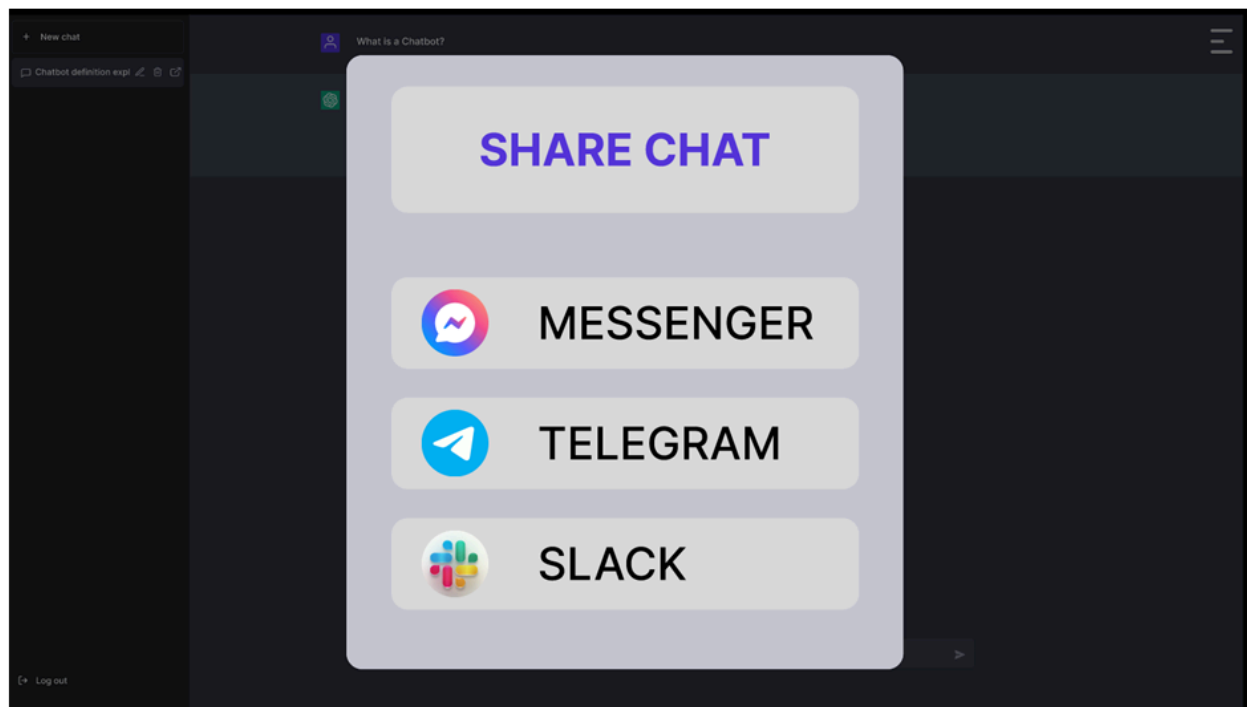
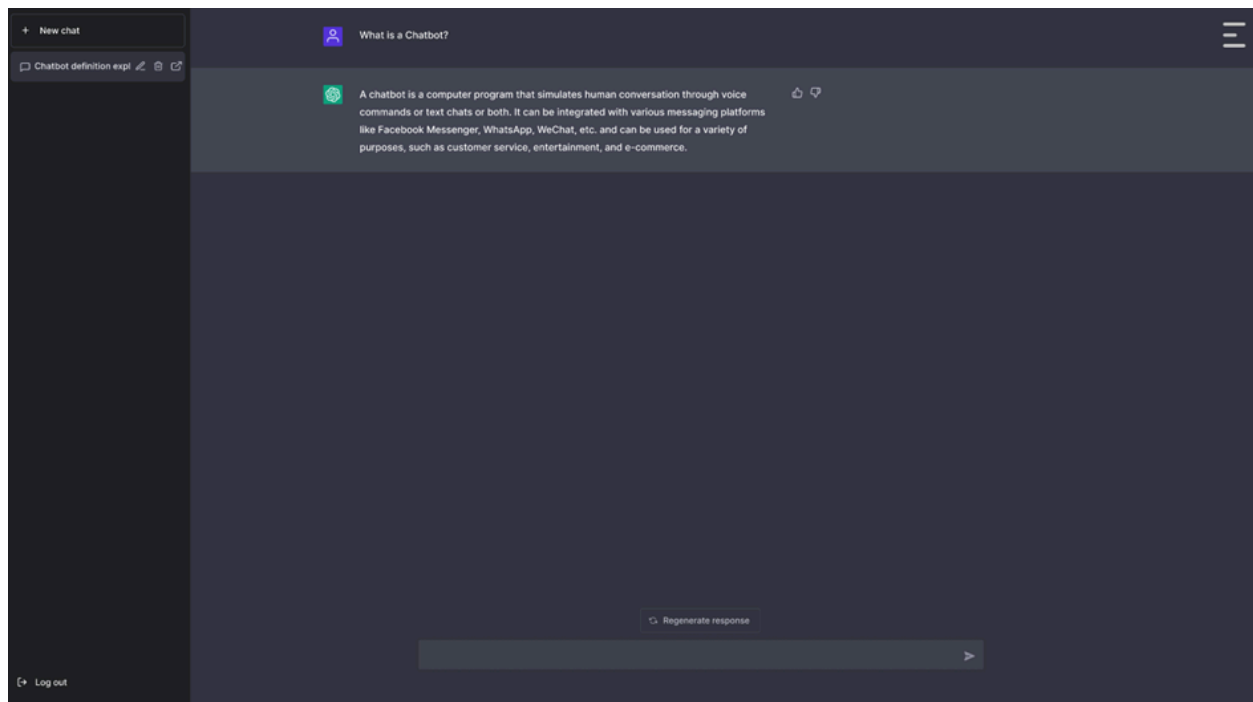
Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

**Displayed Frame Elements:**

1. **“arrow down” icon:** select to display the knowledge data.
2. **“knowledge data” bars:** the knowledge data that have been loaded to the system.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

### 2.3.7. Publish AI Chat to Slack, Telegram, Messenger:



**Purpose:** allows the user to publish an AI Chat log to platforms like Slack, Telegram, Messenger.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

### How to use:

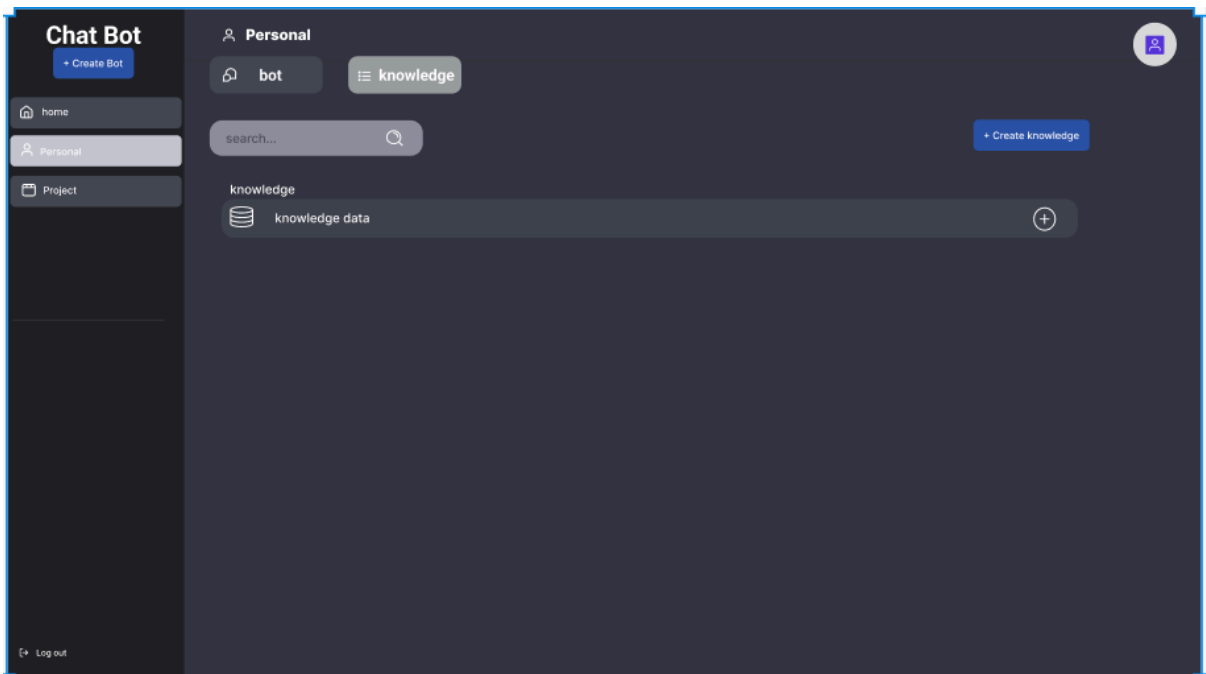
1. From the chat UI, select the “share” icon (circle in red).
2. Select a platform to share the chat log.
3. The message platform then displays the list of recipients for the user to select.

### Displayed Frame Elements:

1. **“share” icon:** select to display the “SHARE CHAT” menu.
2. **“SHARE CHAT” menu:** allows the user to select the platform to share the chat log.

## 2.4. Knowledge Data Management:

### 2.4.1 Knowledge Data management screen



knowledge data manage screen

**Purpose:** interface for managing and organizing knowledge data (knowledge data) in an application chatbot.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

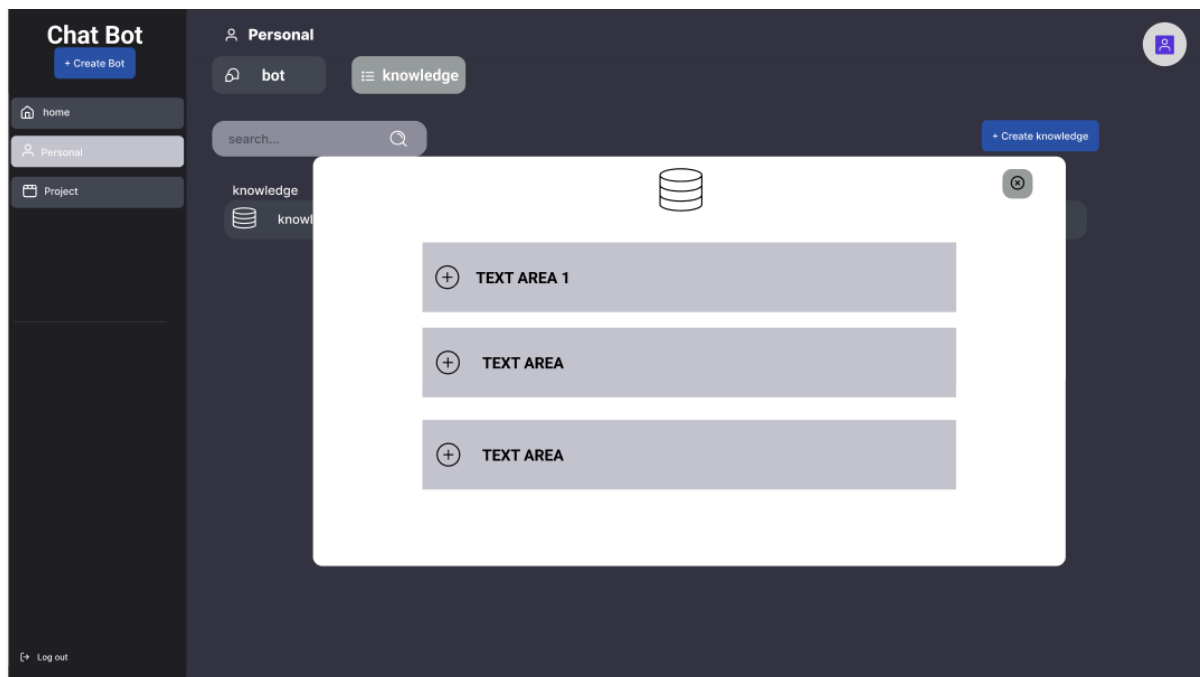
### How to Use:

- 1. Create new knowledge:** Click the "+ Create knowledge" button in the right corner of the screen to add new knowledge data.
- 2. Managing existing knowledge:**
  - Show list: Click the list icon (three horizontal lines) to view knowledge sources.
  - Add new source: The "add new source" option is used to link new data to existing knowledge.
  - Delete knowledge: "delete knowledge" option to delete unnecessary data.
- 3. Search:** Enter keywords in the search bar in the middle to filter and query existing data.

### Displayed Frame Elements:

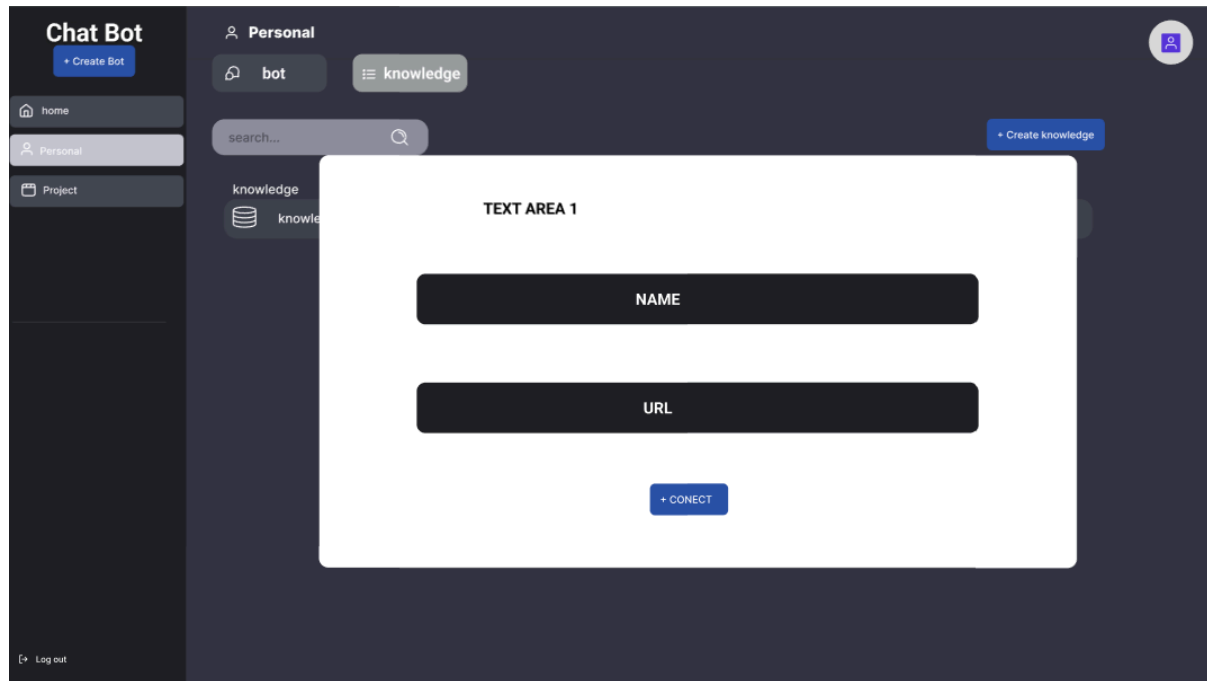
- 1. Knowledge list:**
- 2. Options icon:** The three-bar button (for each item) opens the options menu.
- 3. Search bar:** Located at the top of the main area, supports quick search within the knowledge list.
- 4. "+ Create knowledge":** Add new knowledge.
- 5. Sub menu options:** add new source, show list source, delete knowledge

### 2.4.2 Add knowledge data source:



Select knowledge data type.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024



Fill in data source information

**Purpose:** This screen is designed to allow users to add new knowledge sources to the system, supporting a variety of source types such as files, URLs, Google Drive, Slack, or Confluence.

#### How to Use:

- Select source type:** Each TEXT AREA item in the interface (or similar labels) will represent a source type.
- Enter source information:**
  - If file is selected: The user will upload a file from the computer.
  - If you choose website URL: The system will ask you to enter the URL.
  - If selecting Google Drive, Slack, Confluence: Users can link accounts or select relevant files from these platforms.
- Save or Cancel:**
  - Click the save button (not shown in the image but usually there) to further confirm the data source.
  - Click the close button (X icon in the right corner) if you want to cancel the operation.

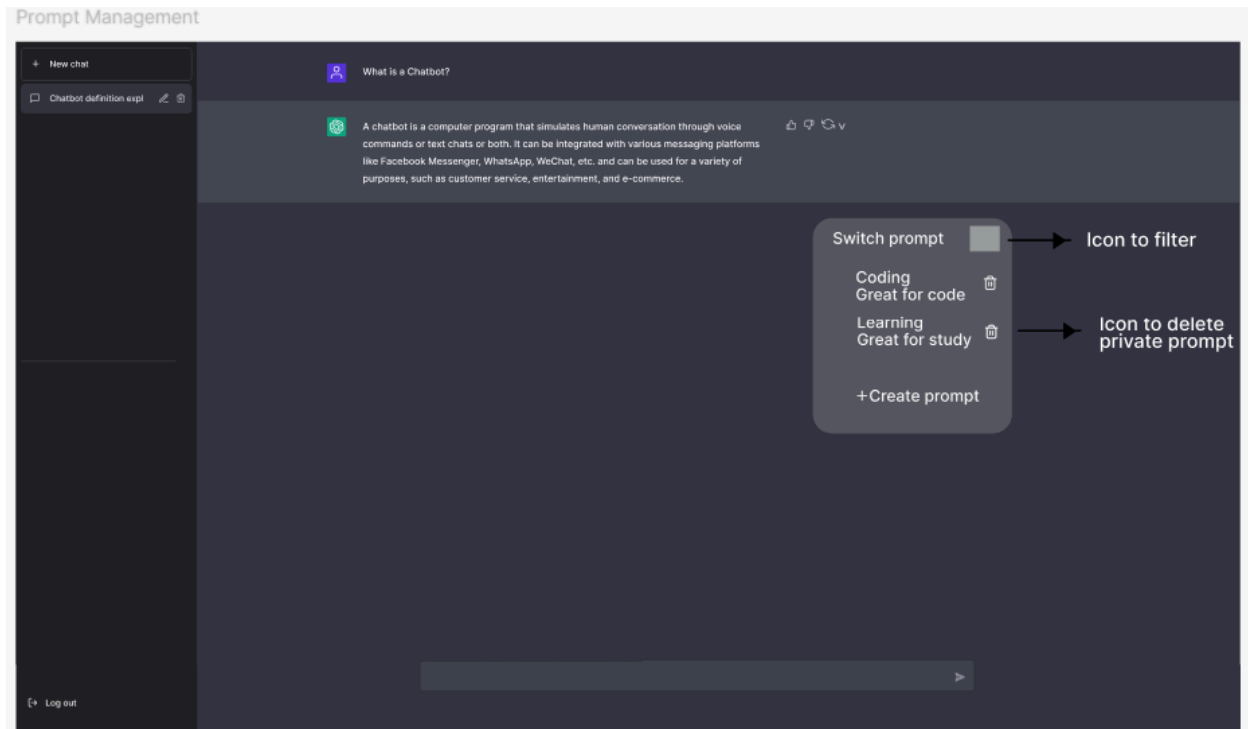
#### Displayed Frame Elements:

- List of data sources:**
- Input dialog box:** allows users to name the knowledge source and fill in the URL of the data source.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

3. **+ CONNECT Button:** The main action button to start the connection process.
4. **Dimmed Background**

## 2.5. Prompt Management:



### Purpose

The screen provides users with a prompt management interface, allowing them to create, filter, and delete private prompts for better organization and customization of their chat with the AI agent.

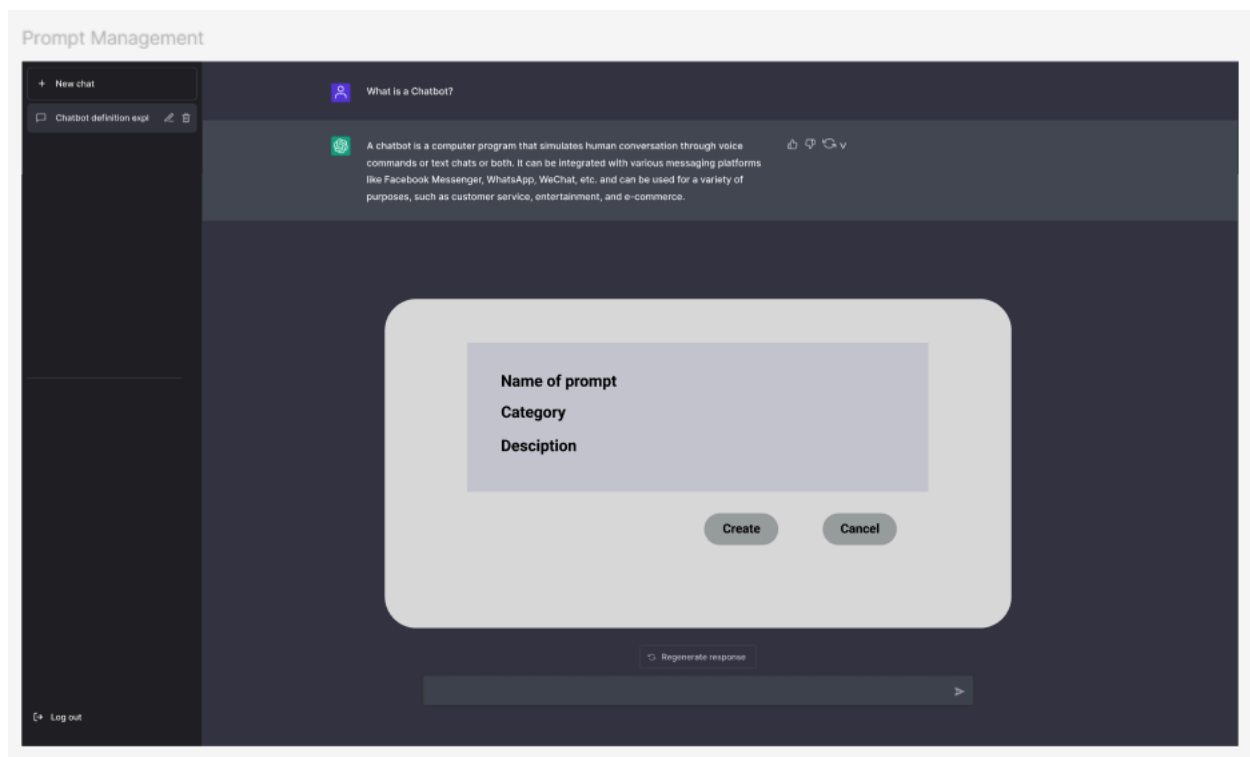
### How to Use

1. **Create a Prompt**
  - Click on the "+ Create Prompt" button in the "Switch Prompt" menu.
  - Enter a custom prompt and save it for future use.
2. **Filter Prompts**
  - Use the "Switch Prompt" dropdown to choose between available prompt types, such as **Coding** or **Learning**. This helps tailor the AI response to the user's needs.
3. **Delete a Private Prompt**
  - Click the trash bin icon next to a private prompt in the "Switch Prompt" dropdown to remove it permanently.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

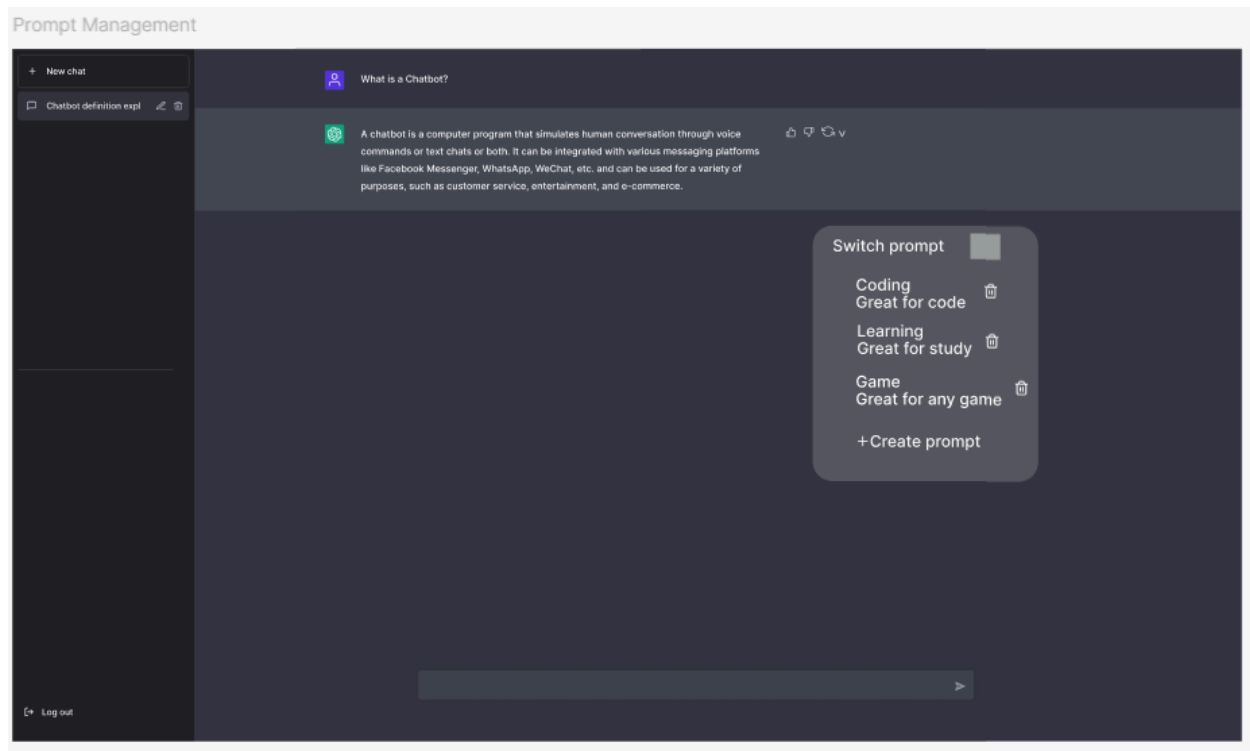
## Displayed Frame Elements

1. **Conversation Area:** Displays the interaction between the AI and the user, supporting both text and image responses.
2. **Sidebar:** Provides access to previous chats and prompt options.
3. **Switch Prompt Menu:** Allows users to toggle between prompt types, create new prompts, or delete existing ones.
4. **Filter Icon:** Used to sort and view specific types of prompts.
5. **Delete Icon:** Lets users delete private prompts directly from the menu.





Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024



## Purpose

The screen provides users with a prompt management interface, allowing them to create, organize, and delete private prompts. It enhances customization and streamlines interactions with the AI agent for specific use cases such as coding, learning, or gaming.

## How to Use

- Create a Prompt:**
  - Click on the "+ Create Prompt" button in the "Switch Prompt" dropdown menu.
  - A modal will appear, allowing users to enter the **Name of Prompt**, **Category**, and **Description**.
  - After filling in the fields, press the **Create** button to save the new prompt.
  - To cancel the operation, click the **Cancel** button.
- Filter Prompts:**
  - Open the "Switch Prompt" dropdown menu to view different categories like **Coding**, **Learning**, or **Game**.
  - Select the desired category to tailor the AI's response to that specific focus.
- Delete a Prompt:**
  - In the "Switch Prompt" menu, locate the prompt you want to delete.
  - Click the trash bin icon next to the prompt to permanently remove it.

## Displayed Frame Elements

- Conversation Area:** Displays interactions between the AI and the user, supporting both

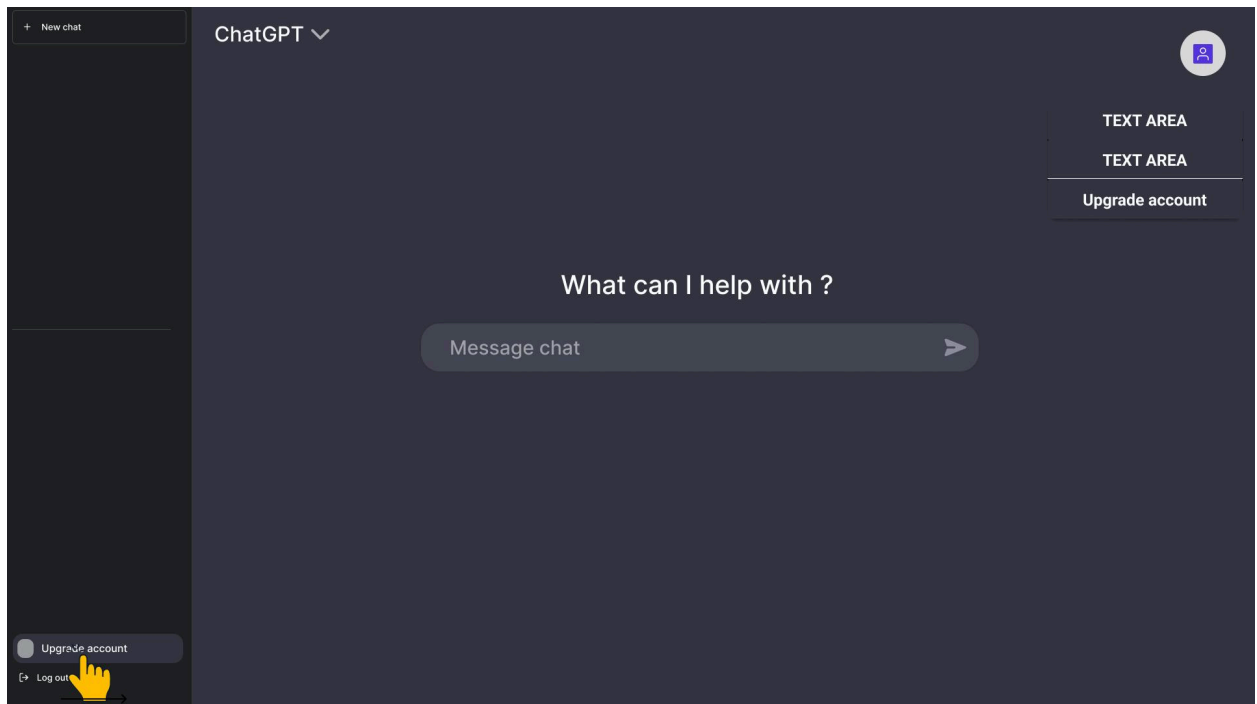
Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

text-based and visual responses.

2. **Sidebar:** Provides options to create new chats, revisit previous conversations, and log out.
3. **Switch Prompt Menu:**
  - Contains existing prompts with their categories.
  - Allows for prompt creation, filtering, and deletion.
4. **Create Prompt Modal:**
  - Fields for entering the name, category, and description of the prompt.
  - Includes "Create" and "Cancel" buttons for action confirmation.

## 2.6. Upgrade account to Pro:

### 2.6.1 Main frame:



**Purpose:** Display the buttons that perform the account upgrade functions.

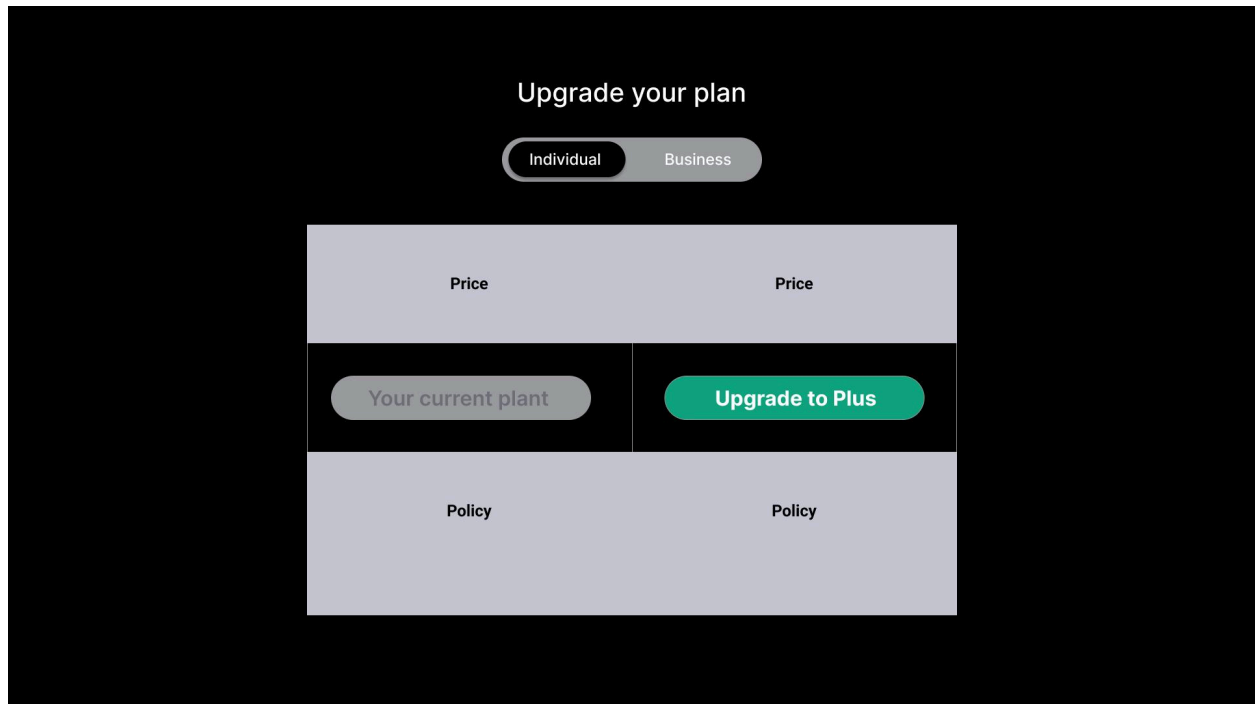
**How to use:** Clicking the “Upgrade account” button, it will move to the Upgrade interface.

**Displayed Frame Elements:**

1. **Icon upgrade:** A simple icon representing an upgrade.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

### 2.6.2 : Upgrade frame:



**Purpose:** Provide users with information about Features and Benefits, Pricing Plans, Terms and Conditions to ensure they fully understand the service before registering.

**How to use:**

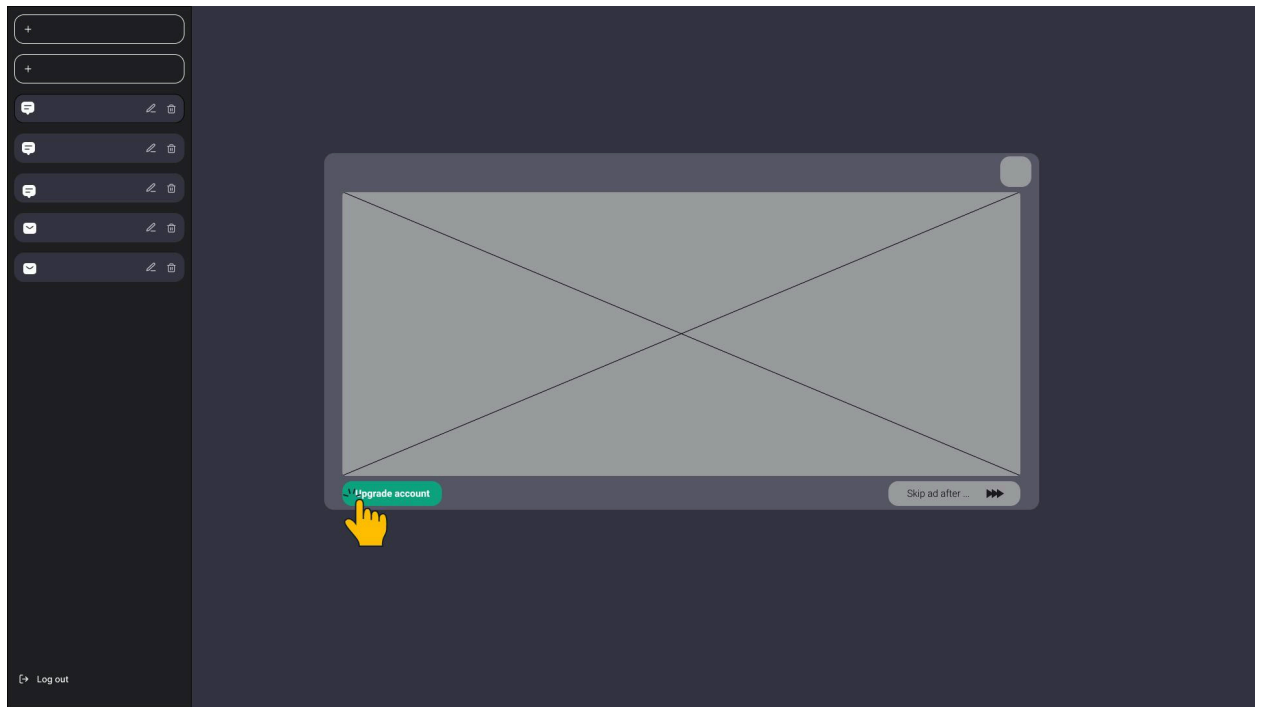
1. Choose the plan that users feel best suits their needs.
2. Read the terms, benefits, policies, and pricing of that plan.
3. Clicking the "Upgrade" button if the user finds it appropriate.

**Displayed Frame Elements:**

1. **Upgrade button:** Clicking the "Upgrade" button if the user finds it appropriate.
2. **Choosing plan button:** Sliding to find the suitable plan.
3. **Textbox:** Display Policy and Benefit and Price.

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

### 2.6.3 Monetization:



**Purpose:** Run third-party ads for standard accounts.

#### How to use:

1. After a period of use according to the policy, display ads for standard accounts.
2. After 5 seconds, show a "Skip" button to allow skipping the ads.
3. Users can click the "Upgrade" button to upgrade to a Pro account to avoid ads, or press the "Exit" button to close the ad and wait for a certain period before continuing to use the service.

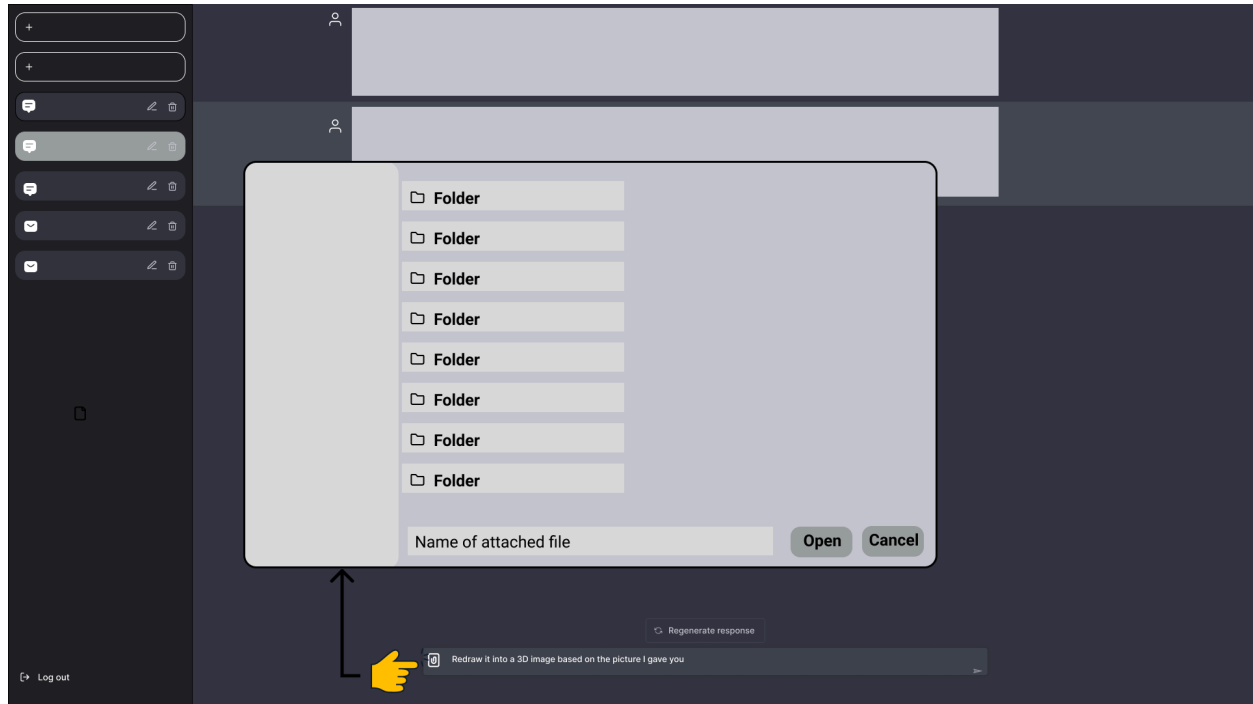
#### Displayed Frame Elements:

1. **Upgrade button:** Clicking the "Upgrade" button if the user finds it appropriate.
2. **Advertising box:** Display advertisement.
3. **Skip button:** Skip the ad and continue using the service.
4. **Exit button :** Cancel the advertisement

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

## 2.7. Photo Chating:

### 2.7.1. Take picture or upload picture:



**Purpose:** The screen allows users to take photos from the user's device and upload them to the chat with the AI agent.

#### How to use:

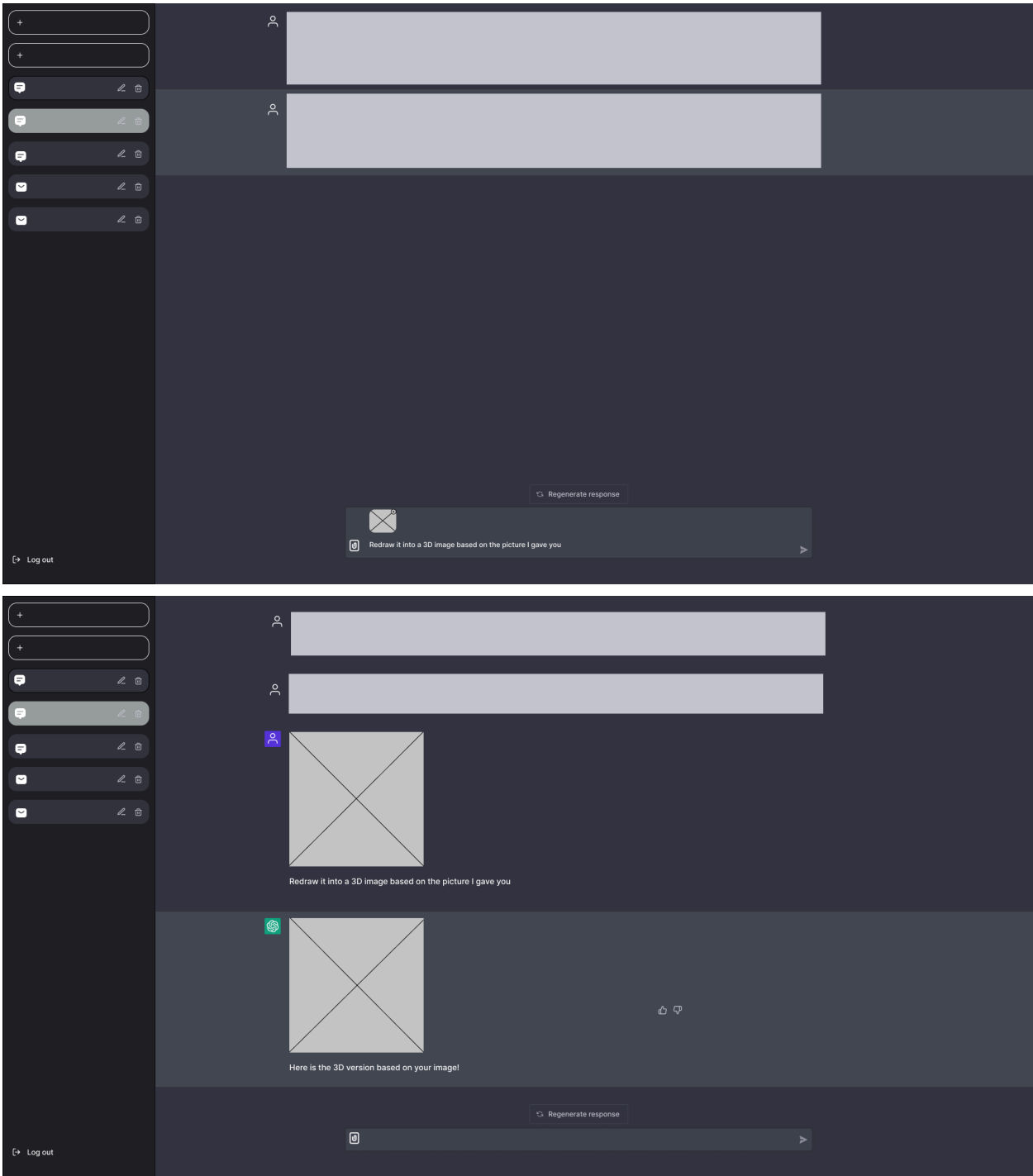
1. The user clicks on the attach file icon on the top left of the chat input box. Then the modal displays the folders, files on the device and the person who chooses the type of file to upload.
2. After selecting the file, the user presses "**Open box**" to upload the image file to the chat input box.
3. In case the user changes his mind and does not want to upload the photo, click "**Cancel box**".

#### Displayed Frame Elements:

1. **Conversation Area:** Shows AI and user interactions with options for text and image responses.
2. **Sidebar:** Allows access to previous chats, notifications, and logout options.
3. **Attach-file icon:** icon displays user memory structure modal
4. **user memory structure modal:** folder structure, documents, photos, ... of the user device

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

2.7.2. Chat with picture:



**Purpose:** After uploading the photo, the user will interact with the AI agent based on that user's photo.

**How to use:**

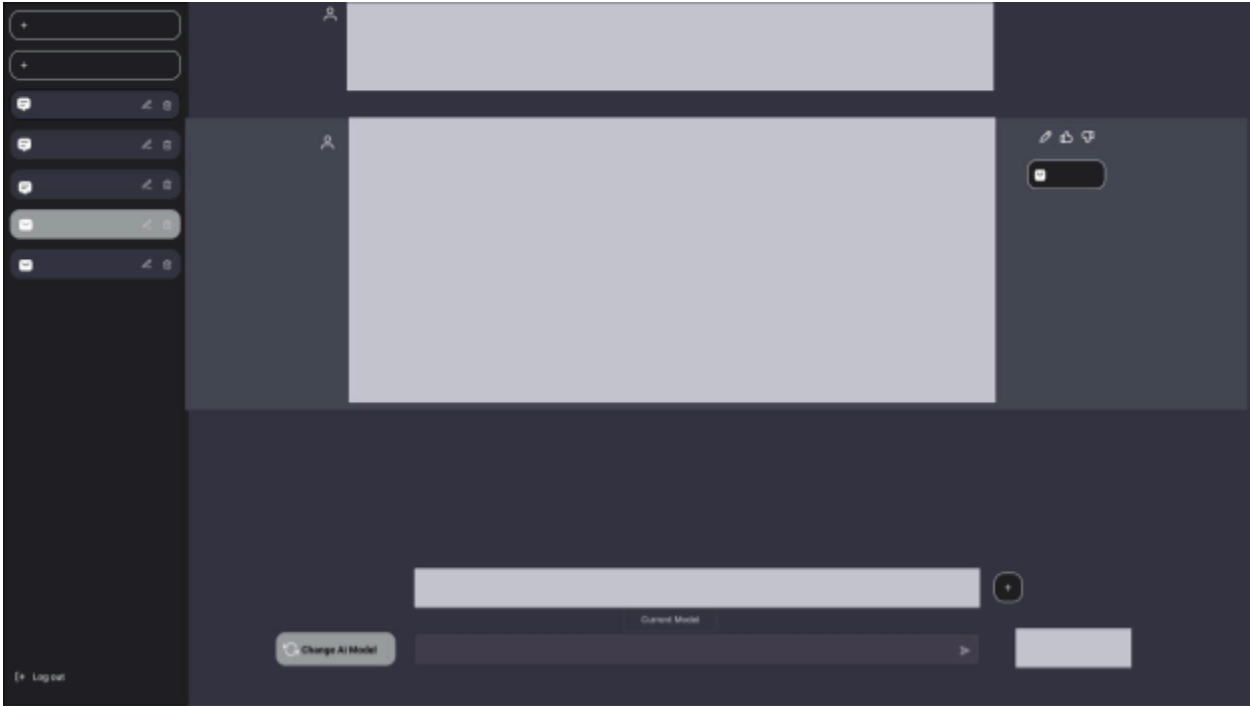
Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

1. After uploading the photo, the user clicks send and asks questions about the submitted photo.
2. The chat bot will take the data and return an answer based on the answer.
3. The operations repeat until the user is satisfied with the answer.

**Displayed Frame Elements:**

1. **Conversation Area:** Shows AI and user interactions with options for text and image responses.
2. **Sidebar:** Allows access to previous chats, notifications, and logout options.
3. **Images chat:** Images in the interactive chat between the user and the AI agent

2.8. Email with AI Agents:



Email Frame

**Purpose:**

The Email Frame extends the AI Chat Frame functionality by integrating email features. It allows users to create draft emails.

**How to Use:**

1. Interact with the AI by typing your message in the input box and viewing responses, use the

Chat Bot	Version: <1.0>
UI Prototype Design	Date: 8/12/2024

provided tools for editing or modifying AI responses.

2. **Email Actions Panel:** Use the email action panel to format, add action or prepare AI responses for email.
3. **Navigate to Email Service:** Click the designated button next to draft email response to open your email service, where you can send the prepared message.

#### Displayed Frame Elements:

1. **Conversation Area:** Shows AI and user interactions with options for text and image responses.
2. **Email Panel:** A dedicated section for email-related actions.
3. **Navigate to Email Button:** A button that directs users to their email service or application to finalize and send the email.
4. **Sidebar:** Allows access to previous chats, notifications, and logout options.
5. **Token Counter:** Displays token usage at the bottom-right corner, similar to the Chat Frame.