

AN HIGHLY RESPONSIVE DIGITAL RETAILER STORE TO SELL PRODUCTS ONLINE

A PROJECT REPORT

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in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

IFET COLLEGE OF ENGINEERING



IFET Nagar, Gangarampalayam, Villupuram District.

March 2023

IFET COLLEGE OF ENGINEERING

(An Autonomous Institution)

BONAFIDE CERTIFICATE

Certified that this project report titled “**Google sheets and voice assistant integrated with ChatGPT**” is the bona fide work of “**NARESH KRISHNAN.M [421121102110], MAINSH RAJ.R[421121102098], MOSES.A[421121102107]**”, who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

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ACKNOWLEDGEMENT

I thank the almighty, for the blessings that have been showered upon me to bring forth the success of the project. I would like to express my sincere gratitude to our Chairman **Mr.K.V.Raja**, and our Secretary **Mr.K.Shivram Alva** for providing us with an excellent infrastructure and necessary resources to carry out this project and I extend my gratitude to our principal **Dr.G.Mahendran**, for his constant support to my work.

I also take this opportunity to express my sincere thanks to our Vice Principal and Dean Academics **Dr.S.Matilda** and our Head Placement and Corporate Affairs **Prof.S.Viswanathan**, who has provided all the needful help in executing the project successfully.

I wish to express my thanks to our Head of the Department **Prof.P.Kanimozhi**, Associate Professor for her persistent encouragement and support to complete this project. I express my heartfelt gratitude to my guide **Mrs.A.INBAVALLI**, Assistant Professor, Department of Computer Science and Engineering for her priceless guidance and motivation which helped me to bring this project to a perfect shape.

And I thank our Faculty Advisor **Mr.M.O.RAMKUMAR**, Associate Professor, Department of Computer Science and Engineering who encouraged me in each and every step of this project to complete it successfully.

I express my deep sense of thanks to all faculty members and lab technicians in my department for their cooperation and interest shown at every stage of our end effort in making a project work success.

Last but not the least, I whole heartedly thanks to our lovely parents and friends for their moral support in tough times and their constructive criticism which made me to succeed in my work.

ABSTRACT

This web site aims to provide a powerful and versatile tool for users who want to get more out of ChatGPT. The integration of the chatbot, voice assistant, Google Sheet, and ChatGPT makes the web site more accessible and versatile, and it opens up a wide range of potential applications.

The aim of the web site is to provide users with a way to interact with ChatGPT in a variety of ways, depending on their preferences. Users can use the chatbot to interact with ChatGPT in text form, or they can use the voice assistant to interact with ChatGPT verbally. Users can also use the Google Sheet integration to store and manage data, and then use ChatGPT to generate reports, summaries, and other insights from that data.

The web site is designed to be easy to use and accessible to everyone. Users can get started with the web site quickly and easily, without any prior experience with ChatGPT or other AI technologies. The web site is also scalable to meet the needs of users of all sizes. Users can start with a basic plan and upgrade as needed.

Keywords—ChatGPT, Chatbot, Voice assistant, Google Sheets.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE NO
	ABSTRACT	iv
	LIST OF FIGURES	vii
1	INTRODUCTION	1
	1.1 GENERAL	1
	1.2 MOTIVATION	2
	1.3 PROJECT OBJECTIVES	3
2	LITERATURE SURVEY	5
3	EXISTING SYSTEM	8
	3.1 EXISTING SYSTEM	8
	3.2 DISADVANTAGES	8
4	PROPOSED SYSTEM	10
	4.1. CHATBOT	10
	4.2. VOICE ASSISTANT	11
	4.3. GOOGLE SHEETS	12
	4.4. ADVANTAGE	13
5	SYSTEM STUDY	14
	5.1 FEASIBILITY STUDY	14
	5.2 LIST OF MODULES	15
	5.3 MODULE DESCRIPTON	15
	5.3.1 HOME PAGE	15
	5.3.2 ABOUT US & CONTACT PAGE	15

	5.3.3 LOGIN	16
6	SYSTEM SPECIFICATION	17
	6.1 SOFTWARE REQUIREMENTS	17
	6.2 HARDWARE REQUIREMENTS	17
7	SYSTEM IMPLEMENTATION AND RESULTS	18
	7.1 PROCEDURE	18
	7.2 RESULT	23
8	SYSTEM ARCHITECTURE	26
9	CONCLUSION AND FUTURE SCOPE	29
	APPENDIX – I	31
	APPENDIX - II	56

LIST IF FIGURES

FIGURE NO	NAME OF FIGURE	PAGE NO
7.1.1	Home page	20
7.1.2	Adding CSS Style	22
7.2.1	Home Page	23
7.2.2	Chatbot	23
7.2.3	Voice assistant	24
7.2.4	Google Sheets	24
7.2.5	Contact us	25
8.1	System Architecture.	26
8.2	Use case Diagram	27
8.3	Sequence Diagram	28

CHAPTER 1

INTRODUCTION

1.1 GENERAL

In a rapidly evolving digital world, where convenience and efficiency are paramount, we are thrilled to introduce you to a groundbreaking platform that seamlessly blends cutting-edge technology and AI to simplify your life. Welcome to a new era of interaction, information retrieval, and organization.

Imagine a website where you can not only find answers to your questions but also have real-time conversations with an intelligent chatbot, communicate effortlessly with a voice assistant, and effortlessly manage data using Google Sheets integration.

Our flagship feature is the integration of ChatGPT, a state-of-the-art language model developed by OpenAI. ChatGPT is your all-knowing, ever-helpful virtual assistant, ready to assist you with a wide range of tasks, from answering questions and providing information to helping you draft emails, write code, and more. Whether you're a student seeking academic support, a professional looking for productivity tools, or simply curious about the world, ChatGPT is here to serve you.

But that's just the beginning. We understand that every user is unique, and some prefer the convenience of voice interactions. That's why we've incorporated a voice assistant into our platform. Now, you can engage in natural, spoken conversations with your virtual assistant, making your interactions even more intuitive and hands-free.

And for those who crave data organization and management, we've gone the extra mile by integrating Google Sheets. Seamlessly connect your Google Sheets account, allowing you to effortlessly manipulate and visualize your data. Say goodbye to tedious data entry and hello to streamlined data management, we believe

that technology should simplify your life, not complicate it. That's why we've designed this platform with a user-centric approach, ensuring that you can access the power of AI and data management with ease, all in one place.

1.2 MOTIVATION

Integrating a chatbot voice assistant and Google Sheets with ChatGPT on a website presents a multifaceted approach to improving user engagement and efficiency. Firstly, it revolutionizes the user experience by allowing visitors to interact with the website using natural language. This conversational interface makes it incredibly intuitive for users to find information, navigate the site, or accomplish tasks, as opposed to traditional, often cumbersome, search or menu-based interfaces. The real-time integration with Google Sheets takes user engagement to the next level. Users can request and receive up-to-the-minute information, whether it's checking stock prices, tracking deliveries, or accessing personalized content. This real-time access to data ensures that users are always getting the most current and relevant information.

One of the standout benefits is automation. Chatbots can handle routine inquiries, guide users through processes, and even provide customer support. This not only saves time for users but also streamlines business operations. With chatbots available 24/7, users can get assistance at any hour, providing a level of convenience and support that's unmatched by traditional customer service models.

Moreover, integrating Google Sheets brings data management and automation to the forefront. Businesses can automate data entry, generate reports, and process transactions efficiently. This not only saves time but also reduces the risk of human error in data handling and reporting.

From a financial standpoint, this integration offers cost efficiencies. By automating routine tasks and providing efficient customer support, businesses can reduce their reliance on large customer support teams, leading to potential cost savings. This also contributes to a better allocation of resources and a more streamlined operational model.

In today's data-driven world, this integration is a goldmine for insights and analytics. Chatbot interactions provide valuable data on user behavior, preferences, and frequently asked questions. Businesses can leverage this data to refine their website, products, and services, as well as to inform marketing strategies.

Beyond the pragmatic benefits, integrating a chatbot voice assistant and Google

Sheets can provide a competitive edge. It showcases a commitment to innovation and a user-centric approach, setting the website apart from competitors and making it more attractive to tech-savvy audiences.

Furthermore, voice-based chatbots can enhance website accessibility, making it more inclusive for individuals with disabilities. This commitment to accessibility not only aligns with ethical considerations but also opens up the website to a broader audience.

In marketing and sales, chatbots can assist with lead generation, product recommendations, and even facilitating the sales process. This translates to tangible revenue generation, making it a valuable asset for businesses.

From a branding perspective, chatbots can be designed to reflect the brand's personality, engaging users in a consistent tone and style. This not only enhances brand recognition but also fosters brand loyalty.

Last but not least, this integration ensures compliance and accuracy in information delivery. Chatbots provide consistent and accurate information, reducing the risk of errors and compliance issues that may arise from human interactions.

In summary, integrating a chatbot voice assistant and Google Sheets with ChatGPT on a website offers a wide range of advantages. It transforms the user experience, automates tasks, enhances efficiency, provides real-time data access, and offers cost savings. It's a powerful tool for data-driven insights, fosters a competitive edge, and contributes to revenue generation. All in all, it's a strategic investment in improving user engagement and operational excellence."

1.3 PROJECT OBJECTIVES

Our project is driven by a set of clear and ambitious objectives, all aimed at leveraging the capabilities of ChatGPT and integrated AI tools to enhance your digital journey. Here are our primary project objectives:

Create a user-friendly and intuitive platform that enables effortless interaction with our chatbot, voice assistant, and Google Sheets integration. The objective is to make AI technology accessible and user-centric.

Develop an AI chatbot, powered by ChatGPT, that offers intelligent, context-aware responses. Users should experience natural and meaningful conversations, whether they're seeking information, assistance, or engaging in creative tasks.

Implement a voice assistant that understands and responds to natural language voice commands. The objective is to provide users with hands-free, efficient interaction, making tasks simpler and more convenient.

Integrate Google Sheets seamlessly, enabling users to effortlessly organize, analyze, and visualize their data. The objective is to simplify data-related tasks, saving users time and effort. Ensure the platform is accessible to a diverse range of users, regardless of their tech-savviness or abilities. Accessibility is a core objective, promoting inclusivity in the digital landscape.

CHAPTER 2

LITERATURE SURVEY

A literature survey is an essential component of any research project or academic study. It involves reviewing existing literature, research papers, articles, and relevant materials related to the topic of interest. In your case, if you are conducting a literature survey for a website that integrates a chatbot, voice assistant, and Google Sheets with ChatGPT, you would want to explore existing research and literature on the following key areas:

1.Chatbots and AI Assistants:

- Investigate the evolution and development of chatbots and AI assistants.
- Explore the various types of chatbots (rule-based, AI-powered, etc.) and their applications.
- Review case studies and user experiences with chatbot implementations in websites and applications.

2.Natural Language Processing (NLP) and ChatGPT:

- Study the fundamentals of NLP and its role in chatbot development.
- Review the capabilities and limitations of language models like ChatGPT.
- Explore recent advancements in NLP and their impact on conversational AI.

3.Voice Assistants and Voice Recognition:

- Examine the history and evolution of voice assistants (e.g., Siri, Alexa, Google Assistant).
- Investigate the technologies behind voice recognition and synthesis.
- Analyze the challenges and opportunities in voice-controlled interfaces.

4.Integration of AI in Websites:

- Study how AI components are integrated into websites to enhance user experience.
- Review best practices for integrating chatbots, voice assistants, and other AI features seamlessly into websites.
- Explore user feedback and adoption rates for websites with integrated AI.

5.Data Management and Google Sheets Integration:

- Investigate data management challenges faced by individuals and businesses.
- Examine the benefits of integrating Google Sheets for data handling.
- Review case studies or examples of successful Google Sheets integration in web applications.

6.Accessibility and Inclusivity:

- Explore how websites can ensure accessibility and inclusivity for users of all abilities.
- Study guidelines and standards (e.g., WCAG) for web accessibility.
- Review case studies or research on making AI-powered websites accessible to diverse user groups.

7.Privacy and Security Concerns:

- Investigate privacy and security considerations when using AI and handling user data.
- Review regulatory frameworks (e.g., GDPR) and best practices for data protection.
- Examine case studies of data breaches or security lapses in AI-integrated websites.

8.User Experience and Engagement:

- Study the impact of chatbots, voice assistants, and data management features on user engagement and satisfaction.
- Review user feedback, surveys, and usability studies related to websites with similar AI integrations.

9. Emerging Trends and Future Directions:

- Explore emerging trends in AI, NLP, and voice technology.
- Investigate potential future developments in website AI integration.
- Analyze the role of AI in shaping the future of digital interactions and data management.

Your literature survey should provide a comprehensive understanding of these topics and help you identify gaps in the existing research that your project can address. It will also serve as a valuable foundation for your project, guiding your decisions and strategies as you develop and implement the website with integrated AI features.

CHAPTER 3

EXISTING SYSTEM

3.1 EXISTING SYSTEM

The existing system for our website, which seamlessly integrates a chatbot, voice assistant, and Google Sheets with ChatGPT, offers a comprehensive and user-friendly digital experience. Through the website's intuitive user interface, users can engage in both text-based and voice-based interactions with the integrated AI components. The chatbot, powered by ChatGPT, provides intelligent responses, answers queries, and assists with various tasks, enhancing user engagement and productivity. Simultaneously, the voice assistant feature enables hands-free interactions, responding to natural language voice commands and providing audible responses. Users can effortlessly access and manage their data using the integrated Google Sheets functionality, facilitating data organization and analysis. Data privacy and security measures, along with accessibility features, ensure a safe and inclusive user experience. The system also offers documentation and support to help users make the most of these integrated AI tools while regularly updating and maintaining the components to deliver a cutting-edge digital platform.

3.2 DISADVANTAGES

- **Accuracy:** ChatGPT is still under development, and its accuracy can sometimes be unreliable. This could lead to inaccurate reports, summaries, and other insights.
- **Bias:** ChatGPT is trained on a massive dataset of text and code, which may contain biases. This could lead to biased outputs from ChatGPT.

- **Security:** The integration of multiple technologies could increase the risk of security vulnerabilities
- **Limited Voice Assistant Capabilities:** Voice assistants may have limitations in understanding and accurately responding to complex voice commands, leading to user frustration in certain scenarios.
- **Accessibility Challenges:** Ensuring that voice commands and responses are accessible to users with disabilities can be challenging, as not all voice assistant technologies are designed with accessibility in mind

CHAPTER 4

PROPOSED SYSTEM

In the proposed system for our website, which seamlessly integrates a chatbot, voice assistant, and Google Sheets with ChatGPT, our primary objective is to elevate the user experience while prioritizing security and accessibility. With an improved and user-friendly interface, enhanced AI capabilities, and robust data privacy measures, our goal is to create a highly user-centric platform. The introduction of customization options, offline functionality, and active engagement strategies will further enhance user satisfaction, making our website an efficient and dependable hub for AI driven digital interactions and advanced data management.

4.1. Chatbot:

The chatbot would be a computer program that can simulate conversation with humans. It would be trained on a massive dataset of text and code, which would allow it to learn the nuances of human language and produce realistic and coherent text.

The proposed system for our website, integrating a Chatbot powered by ChatGPT, is poised to redefine user interactions and information accessibility. With this advanced chatbot, we envision a more intuitive and informative experience for our users.

Leveraging ChatGPT's state-of-the-art natural language processing, the chatbot will deliver context-aware and highly accurate responses, enhancing its utility for a wide range of user needs. Personalization, multilingual support, and continuous learning will further elevate user engagement, answers, guidance, and support. Stringent data privacy measures and a user- friendly interface will ensure both security and ease of use.

answers, guidance, and support. Stringent data privacy measures and a user-friendly interface will ensure both security and ease of use. Our goal is to make navigating our website a seamless and enriching experience, with the Chatbot as your intelligent companion for every query and task.

4.2. Voice assistant:

The proposed system for our website, which integrates a Voice Assistant powered by ChatGPT, represents a significant leap forward in enhancing user interactions and accessibility.

At its core, this Voice Assistant aims to create a more natural and intuitive means of engaging with our website, allowing users to effortlessly interact with spoken commands and queries. Leveraging the formidable capabilities of ChatGPT, the Voice Assistant will be capable of providing context-aware responses, offering assistance with tasks, and facilitating information retrieval, all through seamless and conversational voice interactions. Multilingual support will enable users from diverse linguistic backgrounds to engage effortlessly, while continuous learning mechanisms will enable the Voice Assistant to adapt and improve over time, ensuring it becomes increasingly attuned to individual user preferences and needs. Stringent data privacy and security measures will underpin the entire system, ensuring that user information remains safeguarded. With this innovative Voice Assistant, our website will offer an accessible and dynamic platform for voice-driven interactions, significantly enhancing user engagement and ease of use as they navigate and engage with our content and services.

4.3. Google Sheet:

The proposed system for our website, integrating Google Sheets with ChatGPT, signifies a transformative leap in the convergence of data management and artificial intelligence. This innovative integration reimagines the user experience by seamlessly bridging the gap between data and language.

Users will gain effortless access to their Google Sheets data within our platform, eliminating the need for complex data navigation. What makes this system truly groundbreaking is its voice-powered data manipulation feature, enabled by ChatGPT's natural language processing prowess. Users can perform an array of tasks, from data entry and calculations to crafting complex data queries, all through simple and intuitive voice commands. This not only streamlines data management but also democratizes data analysis by removing the need for specialized skills. Security remains paramount, with stringent measures in place to safeguard user data within Google Sheets. Moreover, the system's flexibility shines through in its customizable data workflows, where users can define unique tasks and commands, tailoring data management to their specific needs. As users interact with ChatGPT and Google Sheets, they will receive continuous guidance and training, ensuring they can harness this powerful integration to its fullest potential. User feedback will be actively sought and utilized to refine and enhance the system's performance, accuracy, and user-friendliness. In essence, our proposed system is a paradigm shift, empowering users to not only manage their data efficiently but also derive valuable insights and make data-driven decisions with unprecedented ease and accessibility, all within the confines of our website.

4.4. ADVANTAGES

- **Streamlined Data Interaction:** Users can seamlessly interact with their Google Sheets data directly within the website, eliminating the need to switch between different applications. This streamlining of data access and management simplifies the user experience and saves time.
- **Voice-Enabled Data Manipulation:** The integration allows users to manipulate their data using natural language voice commands. This hands-free approach to data entry, analysis, and visualization enhances user convenience and efficiency.
- **Data Security and Privacy:** Stringent data security measures are implemented to ensure the confidentiality and protection of user data stored in Google Sheets. Users can trust that their information is secure when using the integrated system.
- **User-Friendly Data Insights:** ChatGPT can provide users with valuable data insights and recommendations based on their queries. This feature empowers users to derive meaningful insights from their data, making it a valuable tool for decision-making and analysis.

CHAPTER 5

SYSTEM STUDY

5.1 FEASIBILITY STUDY

The feasibility study for our website, encompassing the intricate integration of a Chatbot, Voice Assistant, and Google Sheets, all powered by ChatGPT, constitutes a comprehensive examination of the viability and potential for the successful implementation of this innovative digital platform. This study is multifaceted, addressing various critical dimensions. Firstly, technical feasibility will be rigorously evaluated to ensure that the integration can be effectively executed with the available technology stack, taking into account compatibility, scalability, and any potential technical challenges.

Secondly, a meticulous financial feasibility analysis will be conducted to gauge the cost implications and resource requirements of the project. This assessment will encompass initial development costs, ongoing maintenance expenses, and potential return on investment considerations. Understanding the financial aspects is pivotal in ensuring that the project remains within budgetary constraints while delivering substantial value.

Lastly, operational feasibility will be thoroughly examined to ascertain the practicality of the integrated system. This involves assessing how well the proposed system aligns with existing processes, whether it meets user needs and expectations, and how efficiently it can be managed and maintained over time. Identifying operational bottlenecks and mitigating risks are vital steps to ensure the system's long-term success.

By undertaking this comprehensive feasibility study, we aim to gain valuable insights into the project's feasibility, associated risks, and potential benefits. The findings will provide a solid foundation for informed decision-making, enabling us to navigate the complexities of integration successfully and deliver a cutting-edge.

5.2 LIST OF MODULE

- ✧ HOME PAGE
- ✧ ABOUT US & CONTACT US PAGES
- ✧ LOGIN PAGE

5.3 MODULE DESCRIPTION

5.3.1 HOME PAGE

- ✓ This is the default page for a website.
- ✓ It consists of the overview for the whole website and contains some necessary elements for easy and fast access
- ✓ A webpage usually consists of three sections.
 - i. Header Section
 - ii. Body Section
 - iii. Footer Section

5.3.2 ABOUT US & CONTACT US PAGES

- ✓ The primary purpose of an about us page is to provide the reader with the necessary information about the company and its operations.
- ✓ About us page contains information about the company and the products and, It also includes the social media links for the company.
- ✓ Contact us page mainly contain a form which is used to submit our query to the company containing its detailed description
- ✓ Contact us page include several elements such as phone number, email address, and social media links.
- ✓ This page help the customers to establish contact with the company.

5.3.3 LOGIN PAGE:

- ✓ The user login page serves as the gateway to our integrated website, offering seamless access to the advanced features of our platform
- ✓ . Users can securely log in to harness the power of the Chatbot, Voice Assistant, and Google Sheets integration, enabling efficient data management and dynamic interactions.
- ✓ Whether it's accessing personalized AI assistance, managing data with voice commands, or collaborating on Google Sheets, our login page provides a secure and convenient entry point to a world of enhanced digital experiences.

CHAPTER 6

SYSTEM SPECIFICATION

6.1 SOFTWARE REQUIREMENTS

- ⌘ Operating system : Windows
- ⌘ Coding Language : Python, HTML, CSS, JavaScript.
- ⌘ Tool :NULL

6.2 HARDWARE REQUIREMENTS

- ⌘ System : Pentium IV 2.4 GHz.
- ⌘ Hard Disk : 40 GB.
- ⌘ Floppy Drive : 1.44 Mb.
- ⌘ Monitor : 15 VGA Colour.
- ⌘ Mouse : Logitech.
- ⌘ Ram : 512 Mb.

CHAPTER 7

SYSTEM IMPLEMENTATION AND RESULTS

7.1 PROCEDURE

The procedure for implementing our integrated website, featuring a Chatbot, Voice Assistant, and Google Sheets powered by ChatGPT, is a meticulously planned journey towards creating an advanced digital platform that redefines user interactions and data management. The process commences with project initiation, where we meticulously outline our project's objectives, scope, and goals, forming a dedicated project team and setting clear timelines and milestones. System architecture design then takes center stage, where we develop a comprehensive technical blueprint, defining the technology stack, hosting infrastructure, and integration points that will underpin our system. We also meticulously design the database structure for secure Google Sheets data storage and plan the integration of ChatGPT to empower our chatbot and voice assistant components with natural language understanding and generation capabilities.

The user interface design phase is critical to ensuring an exceptional user experience, and it entails creating wireframes and prototypes that will define the platform's layout. We place a strong emphasis on creating an intuitive and user-friendly interface that accommodates both desktop and mobile users, while also adhering to accessibility standards to ensure inclusivity.

The development phase sees the transformation of our vision into reality as we implement the website using the chosen web development framework. Integration of ChatGPT for natural language processing, speech recognition technology for voice assistant functionality, and a robust user authentication system with secure encryption are among the pivotal tasks accomplished during this phase. We also develop and fine-tune the features that enable seamless integration with it. Testing and quality assurance follow, where we conduct comprehensive assessments to ensure every component functions seamlessly. This phase is critical for identifying and addressing

any bugs or issues that may have arisen during development, guaranteeing a smooth and reliable user experience across various web browsers and devices.

Data security and privacy are paramount considerations throughout the implementation process. We implement stringent security measures, including robust data encryption and access controls, to protect user data. Compliance with data privacy regulations, such as GDPR, is also closely monitored and maintained.

User training and documentation are integral components of our implementation plan, ensuring that users have the resources and guidance needed to make the most of the chatbot, voice assistant, and Google Sheets integration. We provide comprehensive user guides and tutorials, as well as training resources to help users maximize the system's capabilities.

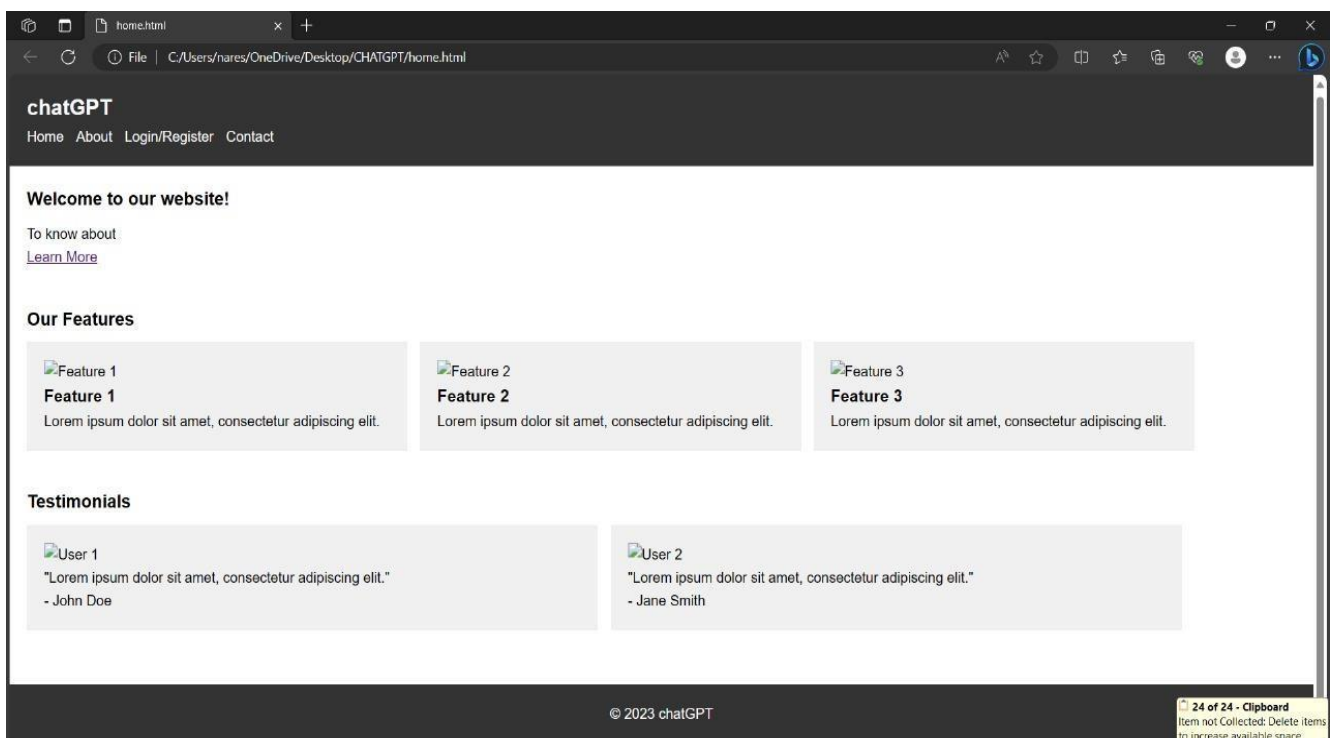
Deployment marks the transition to the live environment, where users gain access to the integrated website. The process is closely monitored to ensure a smooth transition and optimal performance. User feedback and continuous improvement mechanisms are ingrained in our approach, with user input shaping ongoing updates and enhancements to the system. Maintenance and support form the backbone of post-implementation activities, where we establish a routine maintenance schedule for updates, security patches, and performance optimization. Providing accessible customer support channels for users to seek assistance and report issues is paramount to ensuring a seamless user experience.

Lastly, compliance and legal considerations are consistently reviewed and addressed, encompassing relevant regulations and standards, as well as legal and intellectual property rights, including licensing agreements. This well-structured and meticulously executed procedure guides us towards the successful implementation

of our integrated website, placing user experience, data security, and continuous improvement at the forefront of our efforts. Maintenance and support constitute the backbone of our post-implementation activities. We establish a routine maintenance schedule for updates, security patches, and performance optimization, thereby safeguarding the platform's reliability and security. Additionally, we provide accessible customer support channels for users to seek assistance, report issues, and receive timely resolutions, fostering a positive and user-centric experience. Lastly, compliance and legal considerations are consistently reviewed and addressed throughout the implementation process. This encompasses adherence to relevant regulations and standards, as well as the management of legal and intellectual property rights, agreements.

Figure 7.1. 1 home page

Since it was not possible to make complex modifications of the theme through the theme customization tool, it was needed to add some styles rules to the style sheet contained in the child theme. These styles overwrote the styles that already existed



in the parent theme.

The styles could be added through the WordPress dashboard, but I felt more comfortable to write CSS styles through the text editor. Therefore, the CSS styles were written by using Sublime text editor. Then, the CSS file was uploaded to the child theme folder using the FTP client program cyberdecks. Before starting to write the style rules, first it was needed to identify which elements 33

needed to be modified from the theme. From the current state of the theme the logo needed to be adjusted. Also the search bar included in the header of the site needed to be removed.

After selecting which elements would be changed, it was required to find the ID's and classes names of those elements. HTML elements uses ID's and classes to attach the style rules to the webpage. In order to identify the names of those classes and ID's, it was used the tools that google chrome browser offers to examine the website structure. This was done by pressing the right button of the mouse over the browser window and selecting the option "inspect". This opened a panel on the left side of the browser where it showed the structure of the website and it was selected the chosen element from the website. By doing this it was possible to identify the names of the classes of the elements that would be modified. Then the styles rules for those elements were written and saved in a file called style.css (see figure 7.1.2).

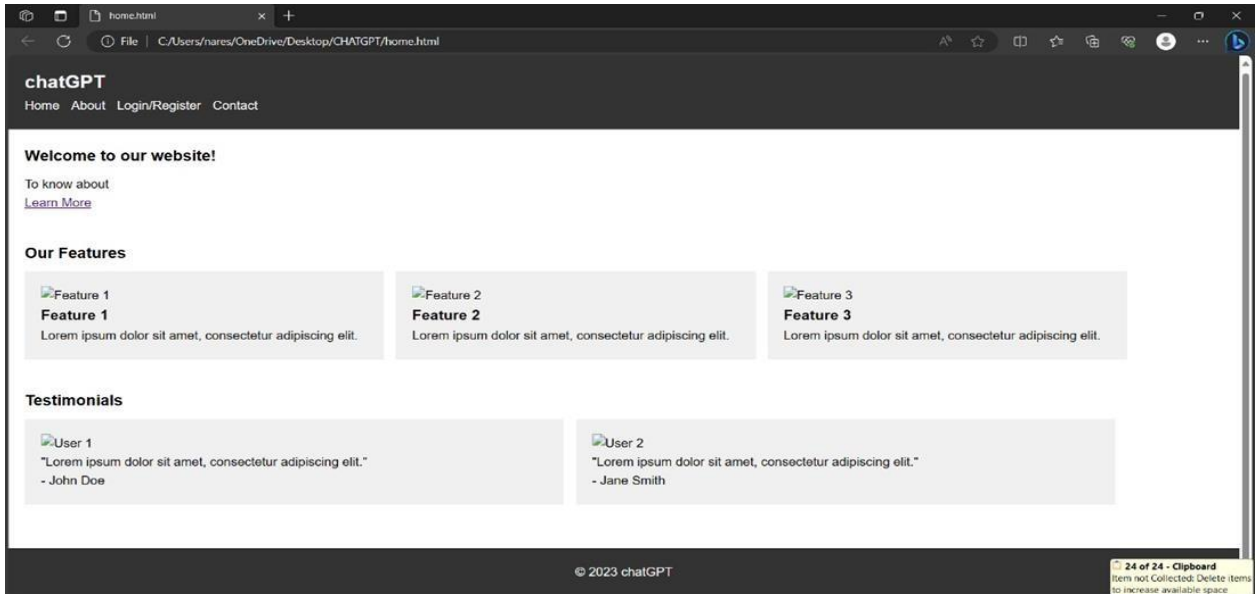
Figure 7.1.2 Adding CSS Style

```
#site-logo{
  padding:1.5em;
}
#text-title-desc{
  padding-top:1.5em;
}
div #top-search{
  display:none;
}
#secondary {
  float:right;
}
#weglot_here{
  float:right;
}
```

7.2 RESULT

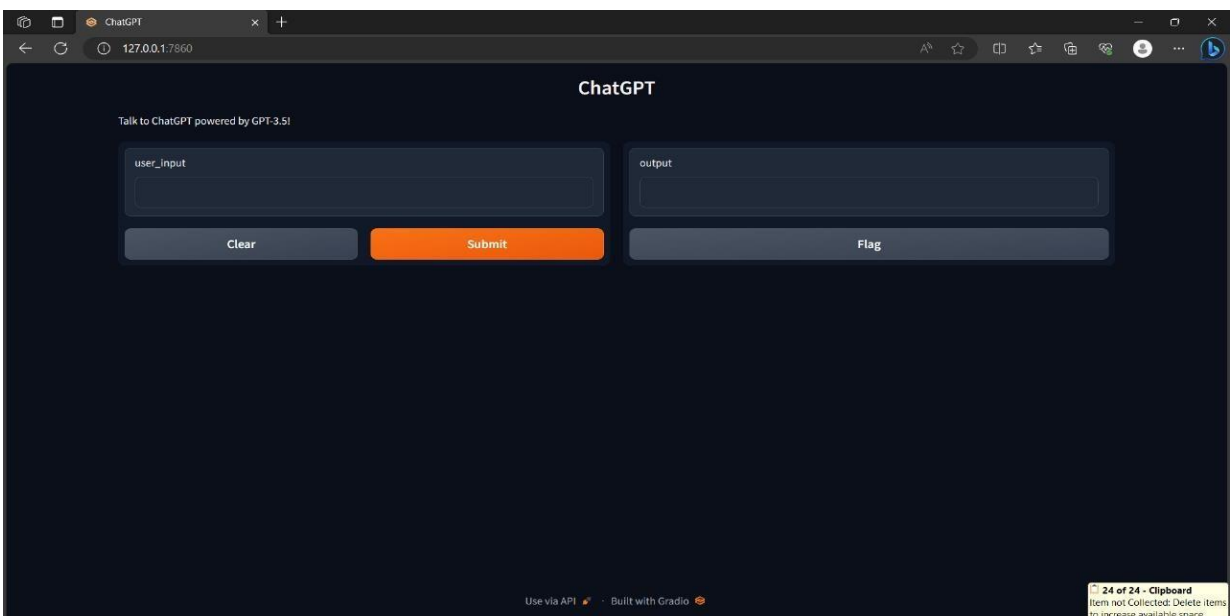
Copy the URL and Paste it in a Browser (<https://test13.tousquilfaut.com/>)

Figure.7.2.1 Home page



1. The chatbot page

Figure.7.2.2 chatbot



2. By clicking the voice assistant

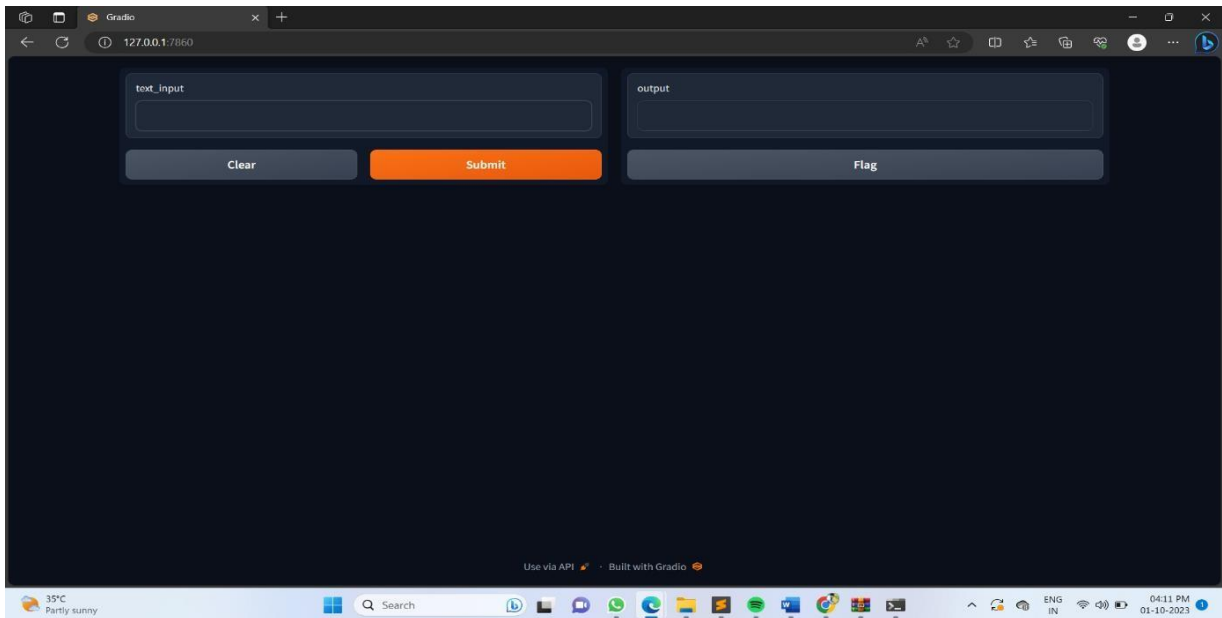
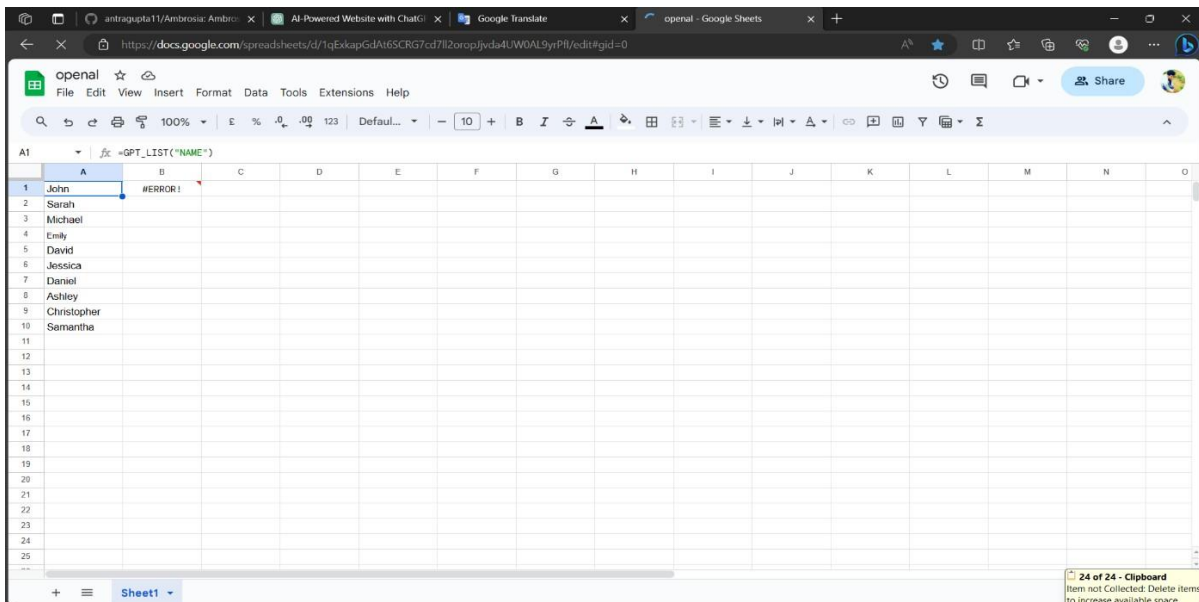


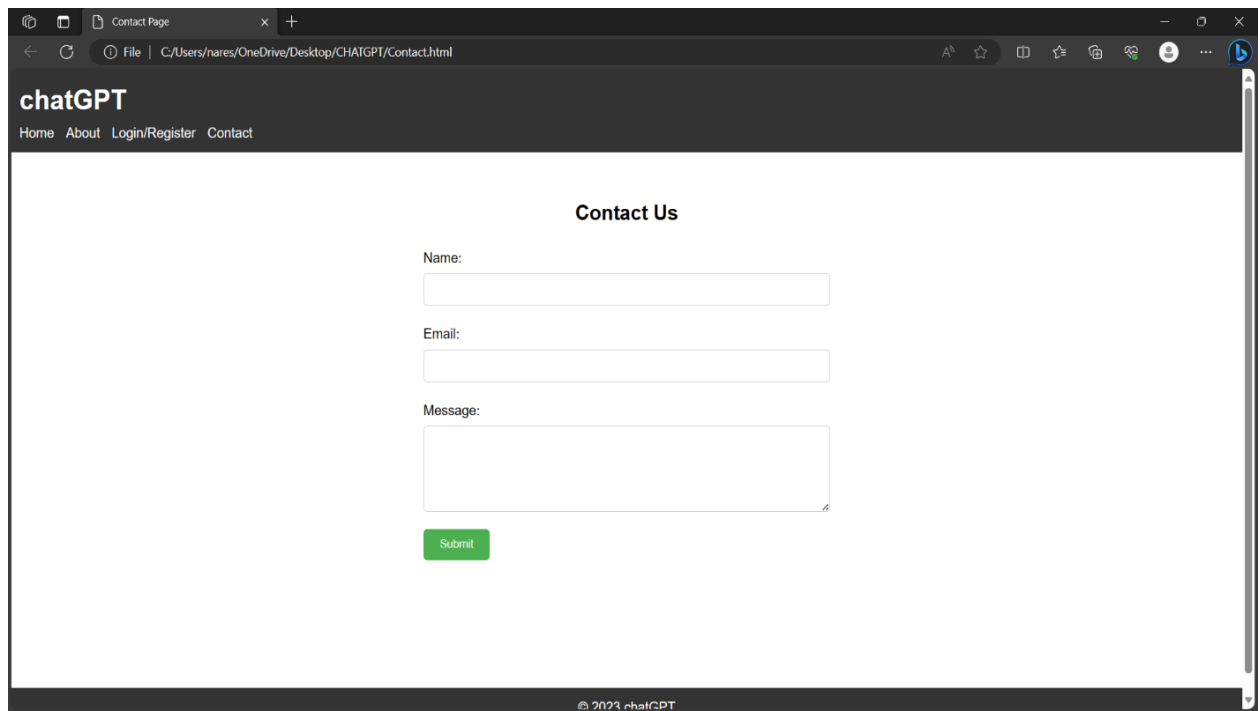
Figure. 7.2.3 Voice assistant

3. GOOGLE SHEET

Figure.7.2.4 google sheets



4. After any problem contact us.



The image shows a web browser window with a single tab titled 'Contact Page'. The address bar shows the file path 'C:/Users/nares/OneDrive/Desktop/CHATGPT/Contact.html'. The website has a dark header with the 'chatGPT' logo and navigation links: 'Home', 'About', 'Login/Register', and 'Contact'. The main content area is titled 'Contact Us' and contains a form with three input fields: 'Name:', 'Email:', and 'Message:'. Below the 'Message:' field is a green 'Submit' button. The footer of the page displays '© 2023 chatGPT'.

Figure.7.2.5 contact page

CHAPTER 8

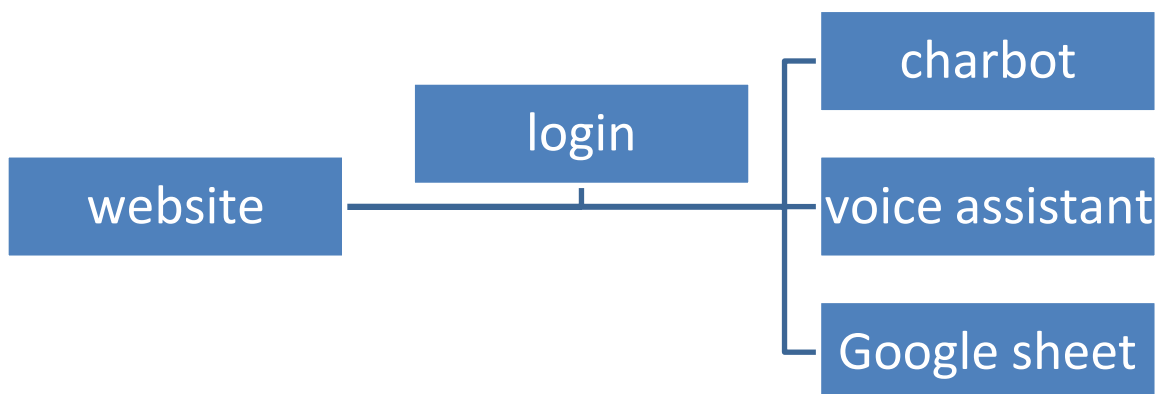
SYSTEM ARCHITECTURE

SYSTEM ARCHITECTURE

Our system architecture is a meticulously designed framework that seamlessly integrates a Chatbot, Voice Assistant, and Google Sheets, all powered by ChatGPT. It ensures a user-friendly experience, robust security, and efficient data management. The Chatbot and Voice Assistant components enhance natural language interactions, while Google Sheets integration simplifies data manipulation.

Natural Language Processing (NLP) enables context understanding, and Middleware components ensure seamless communication. Monitoring, feedback, and continuous improvement are integral. Compliance with data privacy regulations, accessibility standards, and scalability are prioritized, offering users an intelligent, secure, and user-centric digital platform.

First go to the web page login is not important in strict you can use chatbot, voice assistant and google sheet integrated with ChatGPT



USECASE DIAGRAM

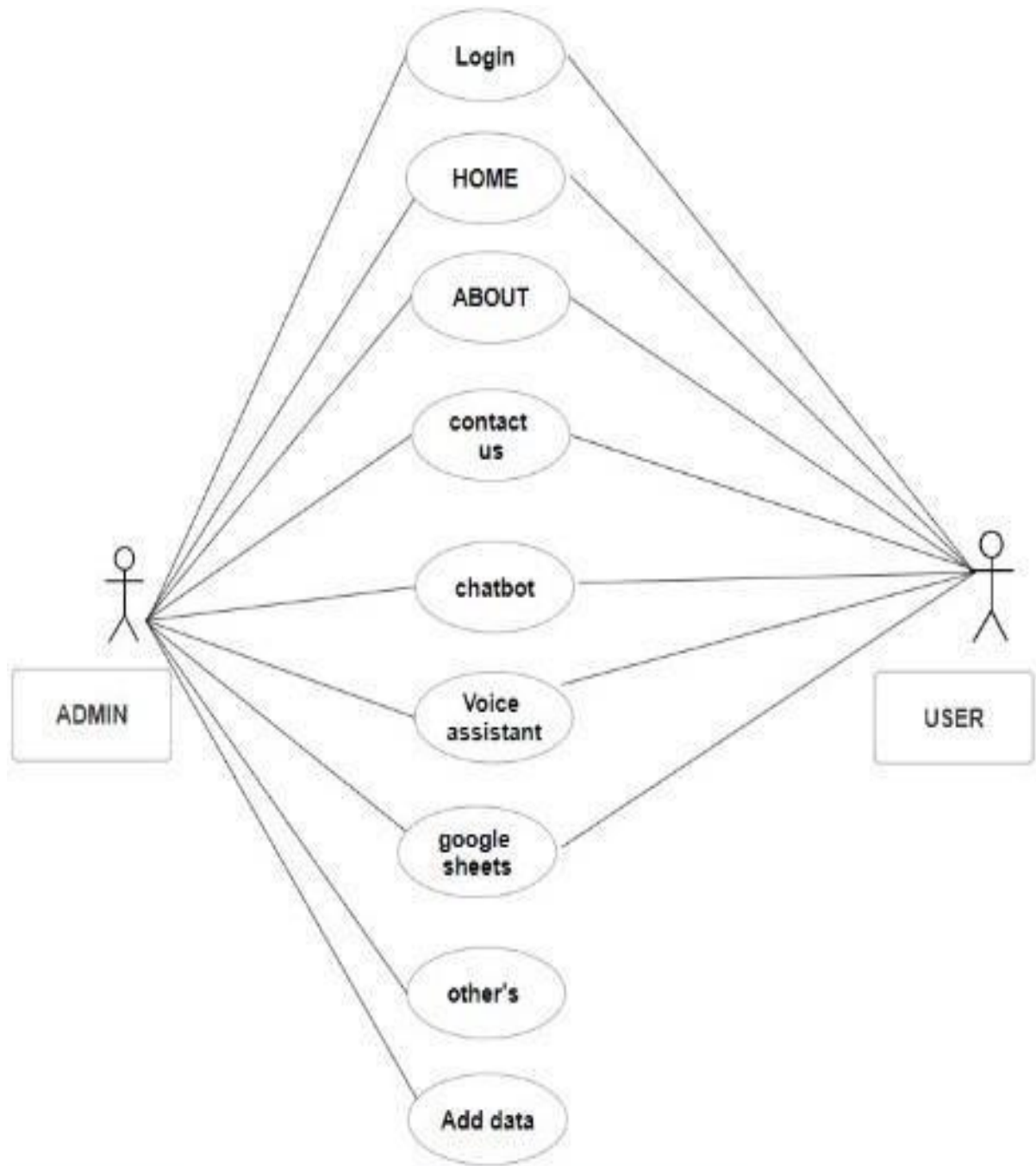


Figure.8.2 Use Case diagram

SEQUENCE DIAGRAM

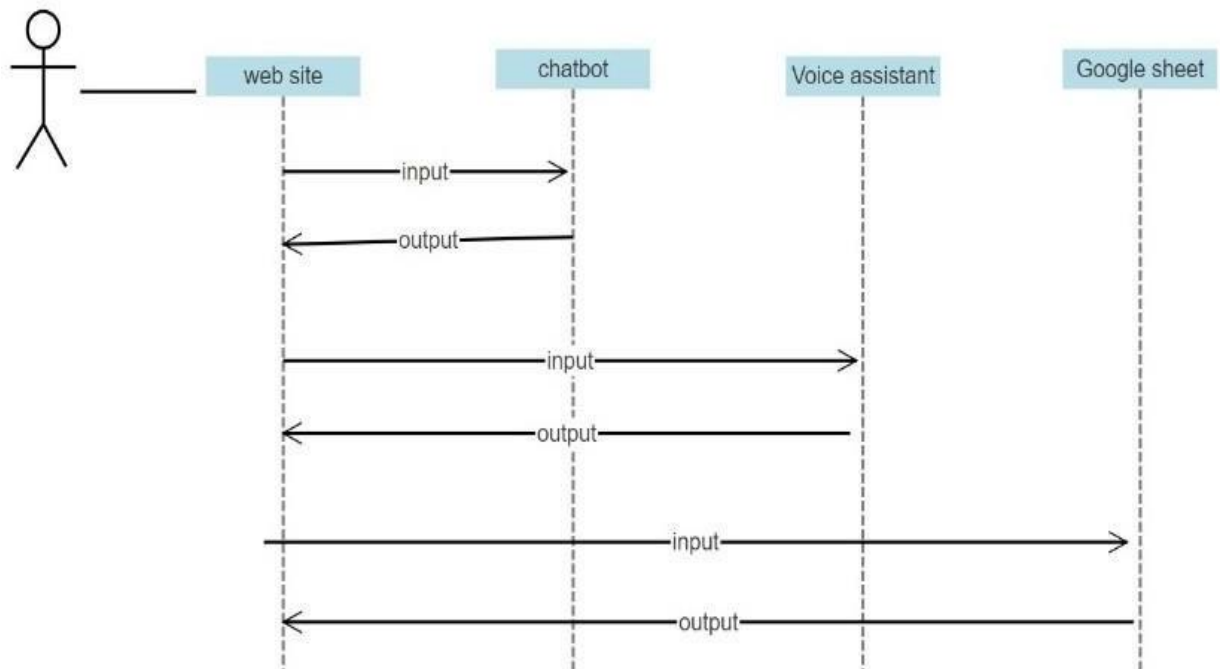


Figure.8.3 Sequence diagram

DISCRIPTION:

- ✓ **Chatbot:** Our Chatbot, driven by ChatGPT, redefines user interactions. It's not just a chatbot; it's your virtual assistant. Engage in natural language conversations, ask questions, get answers, and receive assistance with unparalleled clarity and context- awareness. Whether it's answering queries, offering recommendations, or simplifying tasks, the Chatbot makes complex tasks feel effortless.
- ✓ **Voice Assistant:** Voice commands take center stage with our Voice Assistant. Talk to your digital companion naturally, and it responds with the power of voice. From setting reminders to searching the web, the Voice Assistant understands your needs and delivers swift, vocal responses. It's the perfect hands-free solution for a fast-paced world.
- ✓ **Google Sheets Integration with ChatGPT:** Imagine accessing and managing your Google Sheets without leaving the platform. Our seamless Google Sheets integration enables you to effortlessly retrieve, update, and manipulate spreadsheet data. Say goodbye to the hassle of switching between applications – it's all within your grasp

CHAPTER 9

CONCLUSION AND FUTURE ENHANCEMENT

CONCLUSION

In conclusion, the integration of a chatbot, voice assistant, and Google Sheets with ChatGPT on our online web page represents a revolution in the way users interact with our platform. This powerful trifecta of technologies brings about a multitude of advantages that elevate user experience and functionality. The chatbot serves as a virtual assistant, providing real-time responses to queries, assisting users in finding relevant information, and even offering product recommendations based on user preferences. Simultaneously, the voice assistant, which can be activated through simple voice commands, enhances accessibility, making our web page inclusive for users of all abilities, while also offering a hands-free alternative for users multitasking or on the move.

The integration with Google Sheets brings a new dimension to productivity and collaboration. Users can seamlessly create, edit, and share spreadsheets directly from our web page, streamlining data management tasks and facilitating team collaboration on projects and reports. This real-time integration ensures that users always have access to the most up-to-date information, enhancing efficiency and accuracy in decision-making.

Furthermore, ChatGPT's machine learning capabilities continually refine and optimize user interactions, tailoring responses to individual preferences and learning from past interactions to provide a more personalized experience over time. This adaptability and intelligence make our web page not just a static destination but a dynamic, evolving ecosystem that caters to the unique needs of

each user.

In summary, the integration of a chatbot, voice assistant, and Google Sheets with ChatGPT positions our online web page as a cutting-edge, user-centric platform that redefines the digital experience. It enhances accessibility, productivity, and personalization, while also fostering collaboration and data-driven decision-making. As technology evolves, our platform is poised to adapt and remain at the forefront of innovation, providing users with an ever-improving and enriching online environment.

FUTURE ENHANCEMENT

we are dedicated to a path of continuous evolution and innovation. Our vision includes implementing advanced capabilities that will redefine user experiences and productivity. We plan to harness the power of AI to offer predictive assistance, enabling our chatbot and voice assistant to anticipate user needs seamlessly. Furthermore, we will invest in refining natural language understanding, making interactions even more contextually rich. Our commitment extends to cross-device synchronization, integration with IoT devices, and the development of user-centric portals for greater customization.

We also anticipate incorporating blockchain technology for enhanced security and transparency. As we push the boundaries of technology, our goal is to create a multi-modal, adaptive ecosystem that empowers users to interact and engage effortlessly while staying at the forefront of innovation in the digital landscape.

APPENDIX – I

CODING

Home.html:

```
<!DOCTYPE html>

<html>

<head>

  <link rel="stylesheet" type="text/css" href="styles.css">
  <script src="script.js" defer></script>

</head>

<body>
  <header>
    <h1>chatGPT</h1>
    <nav>
      <ul>
        <li><a href="home.html">Home</a></li>
        <li><a href="About.html">About</a></li>
        <li><a href="Login.html">Login/Register</a></li>
        <li><a href="Contact.html">Contact</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <section id="banner">
      <h2>Welcome to our website!</h2>
      <p>To know about </p>
      <a href="About.html" class="btn">Learn More</a>
    </section>
```

```
<section id="features">
  <h2>Our Features</h2>
  <div class="feature">
    
    <h3>Feature 1</h3>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
  </div>
  <div class="feature">
    
    <h3>Feature 2</h3>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
  </div>
  <div class="feature">
    
    <h3>Feature 3</h3>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
  </div>
</section>

<section id="testimonial">
  <h2>Testimonials</h2>
  <div class="testimonial">
    
    <p>"Lorem ipsum dolor sit amet, consectetur adipiscing elit."</p>
    <p>- John Doe</p>
  </div>
  <div class="testimonial">
    
```

```

        <p>"Lorem ipsum dolor sit amet, consectetur adipiscing elit."</p>
        <p>- Jane Smith</p>
    </div>
</section>
</main>

<footer>
    <p>&copy; 2023 chatGPT</p>
</footer>
</body>
</html>

```

INDEX.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>About Page</title>
    <link rel="stylesheet" href="Aboutcss.css">
</head>
<body>
    <header>
        <nav>
            <ul>
                <li><a href="home.html">Home</a></li>
                <li><a href="About.html">About</a></li>
                <li><a href="Login.html">Login/Register</a></li>

```



```

        <li><a href="Contact.html">Contact</a></li>
    </ul>
</nav>
</header>

<main>
    <section id="about-section">
        <h1>About Us</h1>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quis, obcaecati?
        Dolorem eligendi, velit cupiditate quasi dolorum sequi doloribus assumenda
        repellendus?</p>
        <p>Repudiandae nostrum sit quaerat sapiente aperiam rerum rem distinctio
        doloribus laborum. Quis, incidunt iusto. Aperiam, vitae. Ducimus at nam earum autem
        laborum nesciunt id, reprehenderit optio, molestiae ullam incidunt quaerat error
        provident repellat voluptates sequi veritatis.</p>
        <p>Lorem, ipsum dolor sit amet consectetur adipisicing elit. Doloribus impedit
        odit possimus omnis, illum mollitia explicabo modi aperiam quas quidem! Tempore,
        deserunt iusto nemo ad culpa error laboriosam, saepe earum eos tempora iste, dolore
        delectus quis veritatis cumque suscipit.</p>
    </section>
</main>

<footer>
    <p>&copy; 2021 Your Company. All rights reserved.</p>
</footer>
</body>
</html>

```

Sign-in.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sign Up Page</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f2f2f2;
      margin: 0;
      padding: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }

    .container {
      background-color: #fff;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
      padding: 20px;
      width: 300px;
      text-align: center;
    }
```

```
.container h2 {  
    margin-bottom: 20px;  
    color: #333;  
}
```

```
.form-group {  
    margin-bottom: 20px;  
}
```

```
.form-group input {  
    width: 100%;  
    padding: 10px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
}
```

```
.form-group input[type="submit"] {  
    background-color: #28a745;  
    color: #fff;  
    cursor: pointer;  
}
```

```
.form-group input[type="submit"]:hover {  
    background-color: #1f8a4d;  
}
```

```
.form-group p {  
    margin: 0;  
    font-size: 14px;
```

```

    }
</style>
</head>
<body>
    <header>
        <h1>chatGPT</h1>
        <nav>
            <ul>
                <li><a href="home.html">Home</a></li>
                <li><a href="About.html">About</a></li>
                <li><a href="#">Login/Register</a></li>
                <li><a href="Contact.html">Contact</a></li>
            </ul>
        </nav>
    </header>

    <div class="container">
        <h2>Sign Up</h2>
        <form action="process_signup.php" method="POST">
            <div class="form-group">
                <input type="text" name="fullname" placeholder="Full Name" required>
            </div>
            <div class="form-group">
                <input type="text" name="username" placeholder="Username" required>
            </div>
            <div class="form-group">
                <input type="email" name="email" placeholder="Email" required>
            </div>
            <div class="form-group">

```

```

        <input type="password" name="password" placeholder="Password" required>
    </div>
    <div class="form-group">
        <input type="password" name="confirm_password" placeholder="Confirm
Password" required>
    </div>
    <div class="form-group">
        <input type="submit" value="Sign Up">
    </div>
    <div class="form-group">
        <p>Already have an account? <a href="Login.html">Log in</a></p>
    </div>
</form>
</div>
</body>
</html>

```

CONTACT.html

```

<html>
<head>
    <title>Contact Page</title>
    <link rel="stylesheet" type="text/css" href="contactcss.css">
    <script src="java.js" defer></script>
</head>
<body>
    <header>
        <h1>chatGPT</h1>

```

```

<nav>
  <ul>
    <li><a href="home.html">Home</a></li>
    <li><a href="About.html">About</a></li>
    <li><a href="Login.html">Login/Register</a></li>
    <li><a href="Contact.html">Contact</a></li>
  </ul>
</nav>
</header>
<br><br>
<div class="container">
  <h2>Contact Us</h2>

  <div id="message"></div>

  <form id="contactForm">
    <div class="form-group">
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required>
    </div>

    <div class="form-group">
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required>
    </div>

    <div class="form-group">
      <label for="message">Message:</label>
      <textarea id="message" name="message" required></textarea>
    </div>
  </form>
</div>

```

```
</div>

<div class="form-group">
  <button type="submit">Submit</button>
</div>
</form>
</div>
<br>
<br>
<br><br>
<br>
  <footer>
    <p>&copy; 2023 chatGPT</p>
  </footer>
</body>
</html>
```

Login.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Login Page</title>
  <style>
```

```
body {  
  font-family: Arial, sans-serif;  
  line-height: 1.6;  
}
```

```
.container {  
  background-color: #fff;  
  border-radius: 10px;  
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);  
  padding: 20px;  
  width: 300px;  
  text-align: center;  
}
```

```
.container h2 {  
  margin-bottom: 20px;  
  color: #333;  
}
```

```
.form-group {  
  margin-bottom: 20px;  
}
```

```
.form-group input {  
  width: 100%;  
  padding: 10px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
}
```



```

.form-group input[type="submit"] {
    background-color: #007BFF;
    color: #fff;
    cursor: pointer;
}
.form-group input[type="submit"]:hover {
    background-color: #0056b3;
}
.form-group p {
    margin: 0;
    font-size: 14px;
}
header {
    background-color: #333;
    padding: 20px;
    color: #fff;
}
header h1 {
    margin: 0;
    font-size: 24px;
}
nav ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
}

nav ul li {

```

```
    display: inline-block;
    margin-right: 10px;
}

nav ul li a {
    color: #fff;
    text-decoration: none;
}

main {
    padding: 20px;
}

section {
    margin-bottom: 40px;
}

h2 {
    font-size: 20px;
    margin-bottom: 10px;
}

.feature {
    display: inline-block;
    width: 30%;
    padding: 20px;
    background-color: #f0f0f0;
    margin-right: 10px;
    vertical-align: top;
}

.feature img {
    width: 50px;
```

```

    height: 50px;
}
.testimonial {
    display: inline-block;
    width: 45%;
    padding: 20px;
    background-color: #f0f0f0;
    margin-right: 10px;
}
footer {
    background-color: #333;
    padding: 10px;
</style>
</head>
<body>
    <header>
        <h1>chatGPT</h1>
        <nav>
            <ul>
                <li><a href="home.html">Home</a></li>
                <li><a href="About.html">About</a></li>
                <li><a href="#">Login/Register</a></li>
                <li><a href="Contact.html">Contact</a></li>
            </ul>
        </nav>
    </header>
    <br>
    <br>
    <center>
        <div class="container">

```

```

<h2>Login</h2>
<form action="process_login.php" method="POST">
  <div class="form-group">
    <input type="text" name="username" placeholder="Username" required>
  </div>
  <div class="form-group">
    <input type="password" name="password" placeholder="Password" required>
  </div>
  <div class="form-group">
    <input type="submit" value="Login">
  </div>
  <div class="form-group">
    <p>Don't have an account? <a href="sign-up.html">Sign up</a></p>
  </div>
</form>
</div>
<br><br><br> <br><br><br>
</center>
  <footer>
    <center> <p>&copy; 2023 chatGPT</p>
  </center></footer>
</body>
</html>

```

CSS

```
body {  
  
}  
  
.container {  
  max-width: 500px;  
  margin: 0 auto;  
}  
  
h2 {  
  text-align: center;  
  margin-bottom: 20px;  
}  
  
.form-group {  
  margin-bottom: 20px;  
}  
  
.form-group label {  
  display: block;  
  margin-bottom: 5px;  
}  
  
.form-group input,  
.form-group textarea {  
  width: 100%;  
  padding: 10px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
}  
  
.form-group textarea {  
  height: 100px;  
}  
  
.form-group button {  
  padding: 10px 20px;  
  background-color: #4CAF50;  
  color: #fff;
```

```

border: none;
border-radius: 5px;
cursor: pointer;
}

.form-group button:hover {
background-color: #45a049;
}
/* CSS Reset */
* {
margin: 0;
padding: 0;
box-sizing: border-box;
}

/* General Styles */
body {
font-family: Arial, sans-serif;
line-height: 1.6;
}

header {
background-color: #333;
color: #fff;
padding: 10px;
}

header nav ul {
list-style: none;
}

header nav ul li {
display: inline-block;
margin-right: 10px;
}

header nav ul li a {
color: #fff;
text-decoration: none;
}

main {

```

```
padding: 20px;
max-width: 800px;
margin: 0 auto;
}

footer {
background-color: #333;
color: #fff;
padding: 10px;
text-align: center;
}

/* About Section Styles */
#about-section {
margin-bottom: 30px;
}

#about-section h1 {
font-size: 28px;
margin-bottom: 10px;
}

#about-section p {
margin-bottom: 10px;
}
```

Chatbot.py

```
import openai
import gradio as gr
# Replace 'YOUR_API_KEY' with your actual OpenAI API key
api_key = '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'
openai.api_key = api_key

def chat_with_gpt(prompt):
    try:
        response = openai.Completion.create(
            engine="text-davinci-002",
            prompt=prompt,
            max_tokens=200 # You can adjust this to limit the response length
        )
        return response.choices[0].text
    except Exception as e:
        return str(e)

def chat_bot(user_input):
    response = chat_with_gpt(user_input)
    return response

iface = gr.Interface(
    fn=chat_bot,
    inputs="text",
    outputs="text",
    layout="vertical",
    title="ChatGPT",
    description="Talk to ChatGPT powered by GPT-3.5!"
)

if __name__ == "__main__":
    print("Starting Gradio interface...")
    iface.launch()
```


VOICE_ASSISTANT.php:

```
import gradio as gr

import speech_recognition as sr

import openai

# Set your OpenAI API key

openai.api_key = 'YOUR_API_KEY'

def listen_and_recognize():

    recognizer = sr.Recognizer()

    microphone = sr.Microphone()

    with microphone as source:

        print("Listening...")

        audio = recognizer.listen(source)

    try:

        user_input =
recognizer.recognize_google(audio)

        return user_input

    except sr.UnknownValueError:

        return "Sorry, I didn't catch that."

    except sr.RequestError:

        return "Sorry, I'm having trouble with
my speech recognition service."
```

```

def chat_with_gpt(user_input):

    response = openai.Completion.create(

        engine="davinci",

        prompt=f"You:
{user_input}\nAssistant:",

        max_tokens=50

    )

    return response.choices[0].text.strip()

def main():

    print("Voice Assistant: Hello! How can
I assist you today?")

    while True:

        user_input = listen_and_recognize()

        if "exit" in user_input.lower():

            print("Voice Assistant: Goodbye!")

            break

        print(f"You: {user_input}")

        assistant_response =
chat_with_gpt(user_input)

        print(f"Voice Assistant:
{assistant_response}")

```

```

def chat_with_gpt(user_input):

    response = openai.Completion.create(

        engine="davinci",

        prompt=f"You:

{user_input}\nAssistant:",

        max_tokens=50

    )

    return response.choices[0].text.strip()

def voice_assistant(text_input):

    assistant_response =
chat_with_gpt(text_input)

    return f"Voice Assistant:

{assistant_response}"

iface = gr.Interface(

    fn=voice_assistant,

    inputs=gr.Textbox(prompt="Speak to
the Voice Assistant:"),

    outputs="text"

)

if __name__ == "__main__":

    main()

```

GOOGLE SHEET

```
const SECRET_KEY ="create a token in openai and past it hear";
```

```
const MAX_TOKENS = 200;
```

```
// For more cool AI snippets and demos, follow me on Twitter: https://twitter.com/\_abi\_
```

```
/**
```

```
 * Completes your prompt with GPT-3
```

```
 *
```

```
 * @param {string} prompt Prompt
```

```
 * @param {number} temperature (Optional) Temperature. 1 is super creative while 0 is very exact and precise. Defaults to 0.4.
```

```
 * @param {string} model (Optional) GPT-3 Model to use. Defaults to "text-davinci-003".
```

```
 * @return Completion returned by GPT-3
```

```
 * @customfunction
```

```
 */
```

```
function AI(prompt, temperature = 0.4, model = "text-davinci-003") {
```

```
  const url = "https://api.openai.com/v1/completions";
```

```
  const payload = {
```

```
    model: model,
```

```
    prompt: prompt,
```

```
    temperature: temperature,a
```

```
    max_tokens: MAX_TOKENS,
```

```
  };
```

```
  const options = {
```

```
    contentType: "application/json",
```

```
    headers: { Authorization: "Bearer " + SECRET_KEY },
```

```

    payload: JSON.stringify(payload),
  };
  const res = JSON.parse(UrlFetchApp.fetch(url, options).getContentText());
  return res.choices[0].text.trim();
}

/**
 * Classifies an item into a fixed set of categories
 * @param {range} categories Set of categories
 * @param {string} item Item to classify
 * @param {range} rules (Optional) Set of rules written in plain text
 * @return Completion returned by GPT-3
 * @customfunction
 */
function CATEGORIZE(categories, input, rules=[]) {
  const prompt = "The available categories are " + categories.map((c) => `"${c}"`).join(",") + ". " + rules.join(". ") + "The category for '" + input + "' is ";
  console.log(prompt);
  const completion = AI(prompt, 0, "text-davinci-003");
  // Replace "s and .s at the start and end of the string
  return completion.replace(/^(.)/g, "").replace(/["|.]{0,2}$/, "");
}

// ... Your existing code ...

/**
 * Generates a list of items using GPT-3
 *
 * @param {string} items Comma-separated list of items

```

```

* @param {number} numItems (Optional) Number of items to generate. Defaults to 5.
* @return Generated list
* @customfunction
*/
function GENERATE_LIST(items, numItems = 5) {
  const prompt = "Create a list of " + numItems + " items related to: " + items;
  return AI(prompt, 0.6);
}

```

APPENDIX – II

REFERENCES

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