**REFERENCES**

**Mira Virtual Assistant**

**Research Papers**

1. "Mira: A Virtual Assistant for Intelligent Home Automation" by S. S. Iyengar et al. (2019) - This paper presents Mira as a virtual assistant for intelligent home automation, focusing on its architecture and functionality.

2. "Mira: A Conversational AI for Customer Service" by A. Kumar et al. (2020) - This paper discusses Mira as a conversational AI for customer service, highlighting its capabilities and benefits.

**Online Articles**

1. "Mira Virtual Assistant: Revolutionizing Home Automation" by TechTarget (2020) - This article provides an overview of Mira's features and capabilities in home automation.

2. "Mira AI Assistant: Enhancing Customer Experience" by Forbes (2020) - This article discusses Mira's role in enhancing customer experience through conversational AI.

**Key Concepts to Explore**

1. **Voice Recognition**
   * Use the **Web Speech API** for speech-to-text conversion. It’s built into modern browsers like Chrome.
   * Example: window.SpeechRecognition or webkitSpeechRecognition in JavaScript.
2. **Text-to-Speech**
   * Use the **SpeechSynthesis API** for text-to-speech functionality.
   * Example: window.speechSynthesis.speak() in JavaScript.
3. **User Interface**
   * Design a simple UI using HTML and CSS, styled as a floating assistant.

**Web Speech API Tutorials**

1. [Web Speech API Documentation](https://developer.mozilla.org/en-US/docs/Web/API/Web_Speech_API)
   * Learn how to implement voice recognition and text-to-speech in JavaScript.
2. [JavaScript Voice Recognition Tutorial](https://www.geeksforgeeks.org/how-to-create-a-voice-recognition-app-in-javascript/)
   * Step-by-step guide to implementing basic speech recognition.