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| **CMR College of Engineering & Technology**  ***(UGC Autonomous)***  **Kandlakoya, Medchal Road, Hyderabad 501401**  **Centre for Engineering Education Research (CEER)**  **Social Innovation in Practice**  **IV Sem A.Y 2024-25**  **MonoScribe** | | |
| **ABSTRACT:** | | |
| MonoScribe is an advanced real-time text input and display system designed to assist individuals who are deaf or hard of hearing in comprehending written communication. Utilizing an ESP8266 microcontroller to establish a local web server, MonoScribe enables users to input text through a web interface, which is subsequently displayed on an OLED screen connected to the microcontroller. This pioneering solution integrates seamlessly into wearable spectacles, providing instant text translation and enhancing communication for those with hearing impairments. By leveraging cutting-edge technology and prioritizing user experience, MonoScribe seeks to revolutionize interactions for individuals with hearing challenges, promoting increased connectivity, inclusivity, and empowerment. | | |
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| **DESCRIPTION:** | | |
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| MonoScribe is a real-time text input and display system designed to aid individuals who are deaf or hard of hearing in understanding written communication. This innovative solution leverages an ESP8266 microcontroller to create a local web server, allowing users to input text via a web interface. The entered text is then displayed on an OLED screen connected to the ESP8266 MonoScribe represents a groundbreaking solution to the communication challenges faced by individuals who are deaf or hard of hearing, offering real-time text translation directly within wearable spectacles. With its innovative technology and user-centric design, MonoScribe aims to transform the way individuals with hearing impairments engage with the world around them, fostering greater connectivity, inclusivity, and empowerment | | |
| **CONCLUSION:** | | |
| MonoScribe stands as a revolutionary real-time text input and display system that significantly enhances communication for individuals who are deaf or hard of hearing. By utilizing an ESP8266 microcontroller to establish a local web server and displaying entered text on an OLED screen integrated into wearable spectacles, MonoScribe offers an innovative and user-friendly solution to overcome communication barriers. This technology not only facilitates real-time text translation but also promotes greater connectivity, inclusivity, and empowerment for users, fundamentally transforming their interaction with the world. MonoScribe's pioneering approach and commitment to addressing the needs of the hearing-impaired community underscore its potential to make a lasting impact on their daily lives. | |  |
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