

PROJECT REQUIREMENTS DOCUMENT	
Project Name	VisuSpeak
Functional Requirements	
<ol style="list-style-type: none"> 1. Sign Language to Text and Audio: VisuSpeak will convert American Sign Language (ASL) gestures (from visual signing captured in a video clip) into text and audio to facilitate communication with English speakers. 2. Text and Audio to Sign Language: Users can input text and audio into our application, which VisuSpeak will use its database to translate into ASL for communication with ASL users. 3. ASL Accuracy Testing: To enhance beginner ASL users' proficiency, the application will allow users to test the accuracy of their ASL by comparing it to a database of signs. 4. Accessibility Level Identification: Users of the application can specify their accessibility needs, such as visual, vocal, and hearing impairments for a tailored communication experience. 5. Transcription History: The application will maintain a history of conversations and transcripts, ensuring users can access past interactions. 6. Accessibility Officer Access: Accessibility officers will have access to user transcripts, aiding in support and assistance. 	
Technical/Performance Requirements	
<ol style="list-style-type: none"> 1. Minimum Performance Requirements: Users should have access to a Desktop/Laptop with browser support and web camera. 2. Accessible and Inclusive Design: The user interface in the application should be accessible and inclusive to accommodate users with visual and hearing impairments. 3. Secure User Authentication: The application should keep user credentials and related data secured. 4. Efficient: The system should be able to perform translation between ASL and English between 15-30 seconds depending on the size of the input. 5. Accuracy: System should be able to accurately recognize video input from the user and the Artificial Intelligence (AI) model should provide correct predicted translations. 	