## PROJECT DESCRIPTION

Sign Speak is a tool that bridges the communication gap between deaf and hearing individuals by converting sign language into spoken language and vice versa.This real-time translation facilitates smoother interactions and promotes inclusivity in various settings, ensuring equal opportunities and better access to essential services.

## BUSINESS NEED

Sign Speak aims to enhance communication accessibility by bridging the gap between deaf and hearing individuals. It addresses barriers in personal interactions, education, and professional settings by providing real-time translation between sign language and spoken language, fostering inclusivity and ensuring equal access to essential services.

## OWNERSHIP & APPROVAL

| Project Manager | Awais Murtaza | Project Champion | SUPERVISOR | Approval Date | Sep-03-2003 |
|---|---|---|---|---|---|

## FINANCIAL AND MILESTONES

| Financials | Goal | Actual | Capital/ Expense | Goal | Actual | Milestones (Schedule) | Goal | Actual |
|---|---|---|---|---|---|---|---|---|
| Initial Investment | $2500 | | Expense - 4 yr service contract for equip & leased data storage | $230 | | System Design | 20-Nov | |
| Initial Investment | | | | | | Development & Testing | 20-Feb | |
| Initial Investment | | | Capital | | | System Refinement | 20-May | |
| Initial Investment | | | Expense - 4 yr equipment lease | | | Final Product & Installation | 10-Jun | |

## RESOURCES AND RISKS

| Internal Resources | Total hrs | Hrs/Week | External Services | Budget | Actual | Project Roles | Medium | High |
|---|---|---|---|---|---|---|---|---|
| Awais | 40 | 32 | Cloud Service (Data Storage) | $0 | | Technical Features | | ✔ |
| M. Uzair | 30 | 12 | Other | $0 | | Data Storage Capacity | | ✔ |
| Ali Raza | 20 | 12 | Other | $0 | | Integration Issues | | ✔ |
| Tayyab Javed | 2 | 4 | Other | $0 | | | | |

| Project Overview | Project Milestone | Project Budget | | | |
|---|---|---|---|---|---|

| Project Overview | Project Milestone | | Quality | Cost | Total |
|---|---|---|---|---|---|
| Purpose: To bridge communication gaps for deaf individuals by converting sign language to text and voice, and vice versa, in real-time. | **Project Start Date:** 5 Aug, 2024 | | | | |
| Scope: The project that will supports communication between deaf and hearing individuals using sign language recognition. | | **Resources** | Improved medical documentation & summary report generation | Minimal | Estimate |
| Key Deliverables: Real-time sign language to text/voice and spoken language to sign translation system. | **Milestone 1:** Develop a prototype for hand sign recognition and text conversion. | **Tools** | VSCode, NextJS, NodeJS, Python, MongoDB | Free/Paid Tools | $50 Estimated |
| Objectives: Promote inclusivity and accessibility by facilitating communication across ASL, including sign language. | **Milestone 2:** Integrate real-time speech-to-sign language translation. | **Budget** | Cost-Effective Solutions for Hospitals | Limited (it's FYP) | $0 - $50 Estimated |

| Project Management | Project Team | | | | |
|---|---|---|---|---|---|
| | | **Total** | Enhance Medical Consultations | $0 - $50 Estimated | Low Cost |

**Milestone 3:** Implement virtual meeting feature for deaf and hearing users.

| Project Management | Project Team |
|---|---|
| Project Title: | Sign Speak |
| Customer: | University |
| Project Manager: | Awais |
| Stakeholder: | Supervisor |

**Milestone 4:** System testing and deployment for real-time communication.

**Project End Date (Expected):** Jun 20, 2025

### Project Gains

**Cost Savings:** Uses free tools and resources, minimizing the need for costly software and equipment.

**Quality Improvement:** System that reducing errors and enhancing patient care.

**Time Savings:** Quickly translates sign language to text and speech, saving time in communication.