**Project Documentation: Sign Language Translator**

**1. Project Overview**

* **Project Title**: Sign Language Translator
* **Team Members**: V. Sahithi – 2320030101,   
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**2. Problem/Opportunity Area**

* **Field of Interest**: Accessibility and Communication Technology
* **Description**: The Sign Language Translator project aims to help people who use sign language communicate easily with others who don’t understand it. The goal is to use technology to translate sign language into text or speech in real-time, making communication easier for everyone.
* **Why this area?**

We chose this area because many people who use sign language struggle to communicate with others. This project aims to make their lives easier by providing a solution that helps them connect with more people.

**3. Problem Statement**

* **Problem**: People who use sign language often face communication challenges when talking to others who don’t know it, making daily interactions difficult.
* **When does the problem happen?**

The problem occurs when sign language users try to communicate in places like public offices, workplaces, schools, or hospitals.

* **Current Solutions**: Right now, people use human interpreters or type out messages, but these methods are not always convenient or available.
* **Emotions**: People feel frustrated, isolated, and stressed because they can’t communicate easily.
* **Measurable Impact**: It can lead to missed opportunities, like job chances or delayed services, because of communication barriers.
* **Problems with Current Solutions**: Human interpreters are expensive and not always around, and typing messages is too slow in some situations.

**4. Sustainable Development Goals (SDGs)**

* **Relevant Goals**:
  + Goal 10: Reduce Inequality
  + Goal 4: Quality Education
* **How does it address SDGs?**

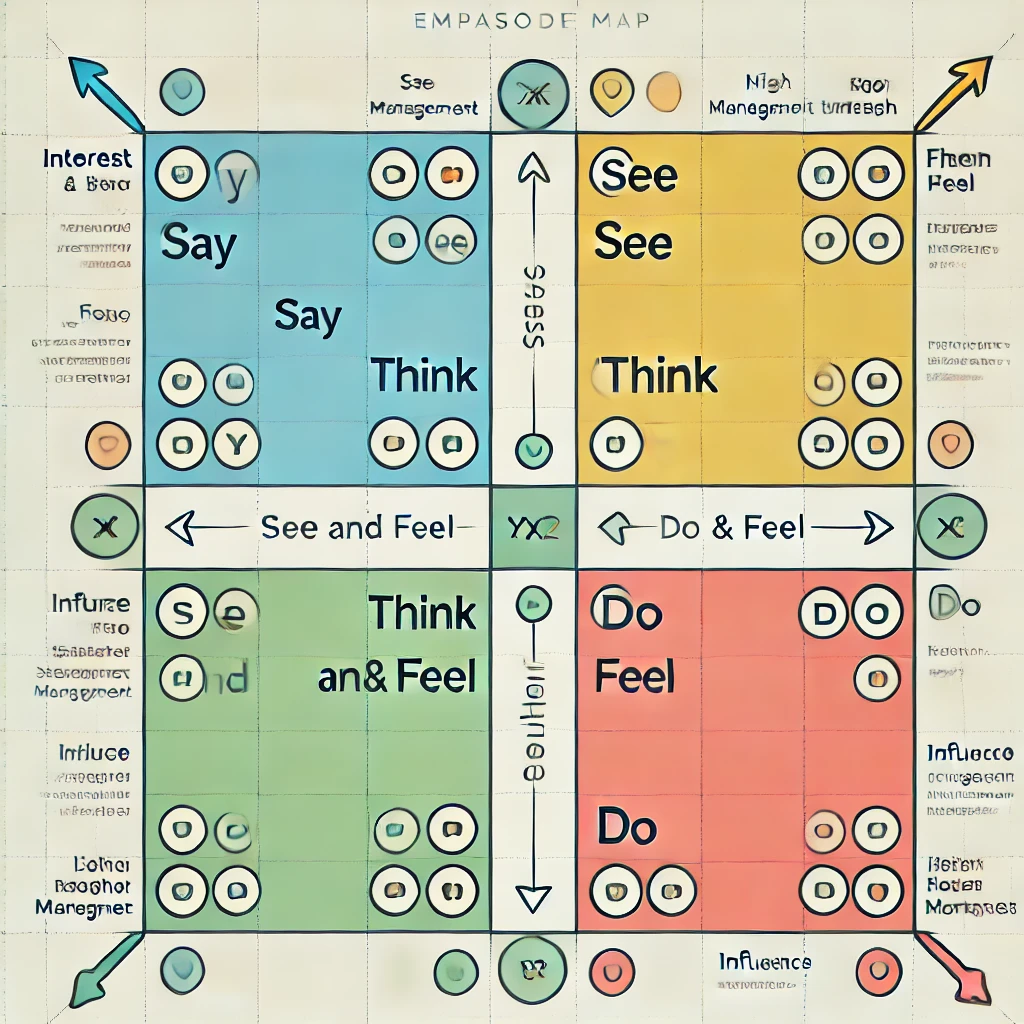
This project will help reduce inequality by giving sign language users a tool to communicate better. It will also improve access to education for students who use sign language.

**5. Stakeholders (People involved)**

* **Main Stakeholders**:
  + People who use sign language
  + Schools and universities
  + Public services (e.g., hospitals, government offices)
  + Developers and researchers
* **Stakeholder Roles**:
  + Users (people with hearing disabilities) benefit directly by using the translator.
  + Schools can use it to help students with hearing impairments.
  + Public services can communicate better with clients who use sign language.
* **How we’ll communicate**?

We will get feedback from users through testing, work with organizations that focus on accessibility, and update everyone involved about our progress.

**6. Understanding the User (Empathy Map)**

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