Project Design Phase-I Problem – Solution Fit Template

Date	20 October 2022
Team ID	PNT2022TMID37811
Project Name	Project - Real-Time Communication System
	Powered by AI for Specially Abled
Maximum Marks	2 Marks

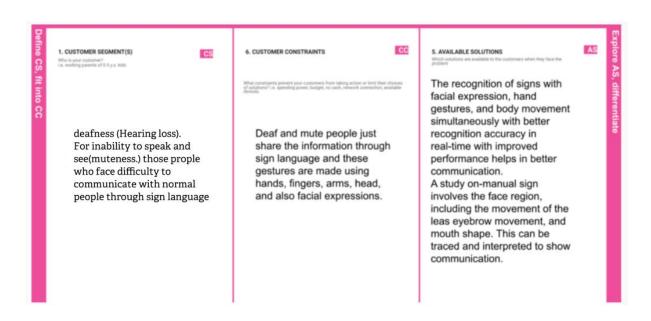
Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

Solve complex problems in a way that fits the state of your customers.
Succeed faster and increase your solution adoption by tapping into existing mediums and
channels of behavior.
Sharpen your communication and marketing strategy with the right triggers and messaging.
Increase touch-points with your company by finding the right problem-behavior fit and
building trust by solving frequent annoyances, or urgent or costly problems.
Understand the existing situation in order to improve it for your target group.

Template:



9. PROBLEM ROOT CAUSE

We take a selected problem and give a solution. That solution is extremely helpful for people who face difficulty with hearing or speaking. Hearing disabilities and Speaking problems are becoming common among kids.

We start by collecting key points from mediapipe holistic and collect a bunch of data from keypoints We then build a LSTM model and train with our stored data which helps us to detect action with a number of frames. Once training is done, we can use this model for real time hand gesture detection and simultaneously convert the gesture to speech using OpenCV.

3. TRIGGERS

The relatives or family members of deaf and mute people face difficulties to express their opinion and communicating with them.

Being left out of social activities.

4. EMOTIONS: BEFORE / AFTER

The emotions are frustrated, anger, left out, lonely, fear, neglected

10. YOUR SOLUTION

Sign language recognition is the task of recognizing sign language glosses from video streams and the glosses are converted into audio. It can bridge the communication gap between deaf and mute people, facilitating the social inclusion of hearing-impaired people.

8. CHANNELS of BEHAVIOUR

SL

Facing difficulties in communicating with normal people. Not being understood and being left out from important discussions.