

Project Design Phase-I
Problem – Solution Fit Template

Date	29 September 2022
Team ID	PNT2022TMID04383
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:

Problem-Solution Fit canvas

Purpose / Vision

Version:

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS Who is Your Customer? Specially abled persons who have difficulty in communicating with others.	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> Specially abled persons are communicating with the people those who are known about the sign language.	5. AVAILABLE SOLUTIONS AS <small>PROS & CONS</small> Several AI applications has been implemented like Hey Google , Alexa have created accessibility for disabled people.	Explore AS, differentiate
	2. PROBLEMS / PAINS PR <small>+ ITS FREQUENCY</small> Communication between deaf and dumb persons and normal persons is always a challenging task. They are unable to express their feelings and problems.	9. PROBLEM ROOT / CAUSE RC The root cause of the problem is Specially abled people uses sign language to express themselves which causes problem to normal people to understand and recognize. So this type of system is important which recognizes and understand different languages . So that it can understandable to normal people.	7. BEHAVIOR BE <small>+ ITS INTENSITY</small> Finding the correct sign language and converting them into right communication between the people.	
Identify strong TR & EM	3. TRIGGERS TO ACT TR Lack of communication with normal people may effect their mental health and strength.	10. YOUR SOLUTION SL Created an application using AI, which will be converting sign language by image processing for the Specially abled persons. Our proposed system has various number of systems like voice to text, speech to text conversion.	8. CHANNELS of BEHAVIOR CH ONLINE Users can access the alerting system via online mode. We can update our application and access it in a very efficient way. OFFLINE They mostly affected by going directly to public places which will affect their life directly. Able to learn sign languages in offline mode.	Extract online & offline CH of BE
	4. EMOTIONS EM <small>BEFORE / AFTER</small> Specially abled persons hesitated to communicate with others but now they can convey their information using signs which is converted to human understandable language.			