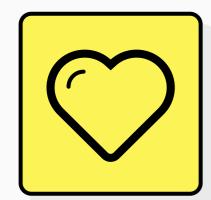
17 October 2023 Date: Team-592895 Team ID:

Project name: Lip reading using Deep learning

Maximum marks: 4 marks



3

What do they HEAR?

Friends often

need to speak

more clearly and

provide repeated

information.

What are they hearing others say?

What are they hearing from friends?

What are they hearing second-hand?

What are they hearing from colleagues?

Struggling to

hear and

understand

spoken

language.

Hearing second-

hand

explanations

might be

inaccurate or

incomplete.

WHO are we empathizing with?

Who is the person we want to understand? What is the situation they are in? What is their role in the situation?

> Deaf or hard of hearing individual

Challenges in everyday communication

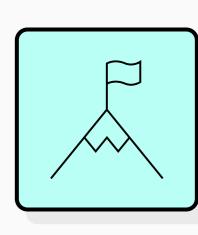
Actively participate in interactions despite difficulties.

GOAL

They need to decide to invest time and effort in using the lipreading system.

What do they need to DO?

What do they need to do differently? What job(s) do they want or need to get done? What decision(s) do they need to make? How will we know they were successful?

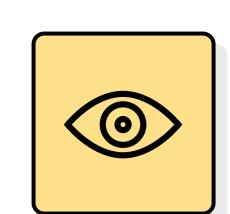


Success can be measured by improved communication and ability to understand more effectively.

lip reading apps and communication tools available in the market place.

They see various

They see people talking, gestures and facial expressions when engaging in conversations.



What do they SEE?

What do they see in the marketplace? What do they see in their immediate environment? What do they see others saying and doing? What are they watching and reading?



What do they SAY?

What have we heard them say? What can we magine them saying?

They often request clear and repeated

We can imagine them using a deep learning-based lip reading system to enhance understanding.

speech form.

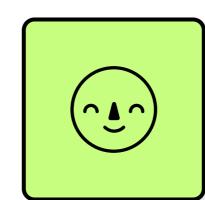
We can imagine them giving positive feedback when the lip reading system helps them.

What do they THINK and FEEL?

PAINS

What are their fears, frustrations, and anxieties?

> Frustration when they cannot effectively convey their thoughts and feeling.



GAINS

What are their wants, needs, hopes, and dreams?

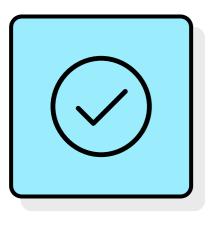
Need clear communication aids and devices to support their daily interactions.

Feeling isolated or left out during conversations.

Dream of a world where their hearing difficulties do not limit their potential.

What other thoughts and feelings might influence their behavior?

A deep-seated desire to be included and respected in society fuels their efforts to bridge communication gaps.



What do they DO?

What do they do today? What behavior have we observed? What can we imagine them doing?

They rely on lip reading,context and non verbal cues. They may use hearing aids

They actively engage in conversations and make an effort to understand others.



