

## Ideation Phase

### Empathize & Discover

Date	18 October 2023
Team ID	Team - 592869
Mentor :	Saumya Mohandas
Project Name	Lip Reading Using Deep Learning
Maximum Marks	5 Marks
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### Empathy Map Canvas :-

An Empathy Map Canvas is a visual tool used in design thinking and user-centered design processes to help teams better understand and empathize with the needs, thoughts, and feelings of their target users or customers. It provides a structured framework for collecting and organizing information about the user's perspective

It's a helpful tool for teams to have a deeper understanding of their users.

### Our Empathy Answers the Following Questions:-

- 1) Who are we empathizing with?
- 2) What they need to DO?
- 3) What do they SEE?
- 4) What do they SAY?
- 5) What do they DO?
- 6) What do they HEAR?
- 7) What do they FEEL and THINK? □ Pain and Gain
- 8) What other thoughts and feelings might influence their behavior



## Lip Reading Using Deep Learning

The project aims to develop a comprehensive machine learning solution for word detection in videos of speakers. Utilizing deep learning algorithms like LSTM and Neural Networks, the system enhances speech recognition, especially in noisy environments. It operates solely on video data, eliminating the need for transcribed audio, thus benefiting hearing-impaired individuals and enabling multi-modal applications, like enhanced transcription in video conferencing for improved communication.

