

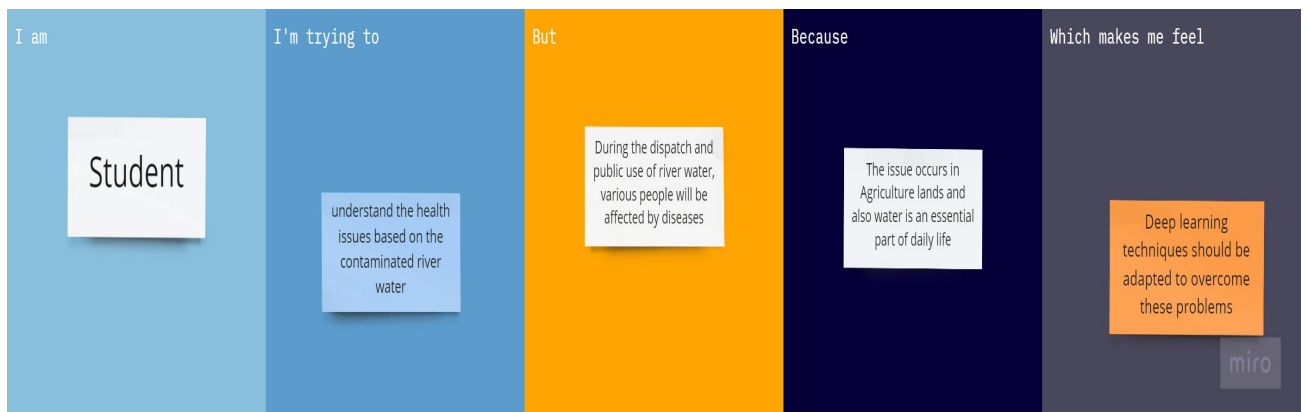
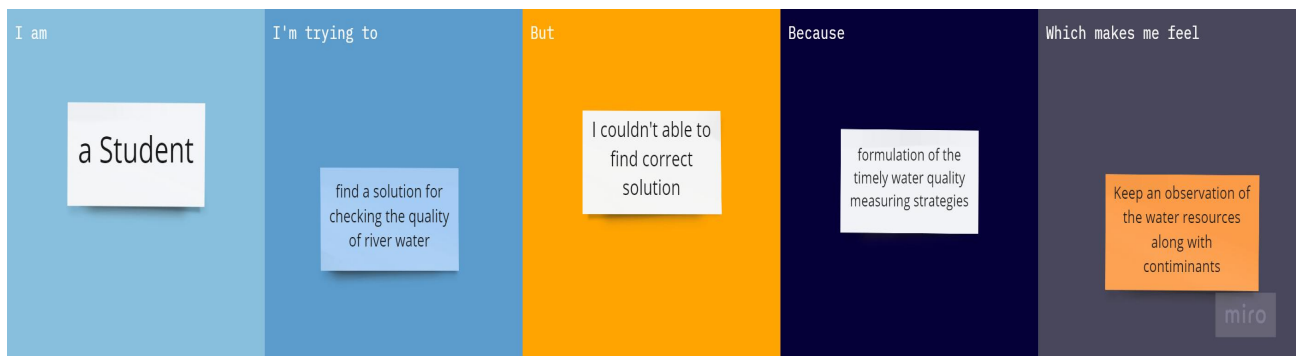
Ideation Phase

Define the Problem Statements

| | |
|---------------|--|
| Date | 16 October 2022 |
| Team ID | PNT2022TMID33916 |
| Project Name | IoT based Real time river water quality Monitoring and Control System |
| Maximum Marks | 2 Marks |

Customer Problem Statement Template:

Now a days water pollution is one of the biggest fears for the green globalization. In order to ensure the safe of water quality is needs to be monitor in real time. water quality is affected by both point and non-point sources of pollution, which include sewage discharge, discharge from industries, run-off from agricultural fields and urban run-off. It is difficult to maintain river water quality monitoring. By focusing on the above issues, low cost monitoring system to monitor water in real time using IoT is proposed. In this system quality parameters are measured using different sensors such as pH, turbidity, temperature and communicating data onto a platform microcontroller system and GPRS are used.



| Problem Statement (PS) | I am | I'm trying to | But | Because | Which makes me feel |
|-------------------------------|-------------|--|--|---|---|
| PS-1 | Student | find a solution for checking the quality of river water | I couldn't able to find correct solution | formulation of the timely water quality measuring strategies | Keep an observation of the water resources along with contaminants |
| PS-2 | Student | understand the health issues based on the contaminated river water | During the dispatch and public use of river water, various people will be affected by diseases | The issue occurs in Agriculture lands and also water is an essential part of daily life | Deep learning techniques should be adapted to overcome these problems |