

## Ideation Phase

### Define the Problem Statements

Date	06 May 2023
Team ID	NM2023TMID15378
Project Name	Project-IOT Based Weather Adaptive street lighting system
Maximum Marks	2 Marks

#### Customer Problem Statement :

The project you're working on is called the "IoT -based Weather Adaptive Street Lighting System." In simple terms, it means creating a system that uses Internet of Things (IoT) technology to control street lights in response to weather conditions. The goal is to make street lighting more efficient and responsive by automatically adjusting the brightness or timing of the lights based on factors like rain, fog, or daylight. This helps save energy, improves visibility on the roads, and enhances safety for pedestrians and drivers.

#### Reference:

[https://miro.com/welcomeonboard/MmJxb0piNkRQSmcwN01ORkxsMVo3VXJ3TW5FdUdhaGl0aGxTN2FYM2UwTWpMcFJ4QVo1RIIPTVhWZDBNNW1KVXwzNDU4NzY0NTU0NTQxNzU0MDYzfDI=?share\\_link\\_id=987210757316](https://miro.com/welcomeonboard/MmJxb0piNkRQSmcwN01ORkxsMVo3VXJ3TW5FdUdhaGl0aGxTN2FYM2UwTWpMcFJ4QVo1RIIPTVhWZDBNNW1KVXwzNDU4NzY0NTU0NTQxNzU0MDYzfDI=?share_link_id=987210757316)

#### Example:

The screenshot shows a Miro board titled "Customer Problem Statement Template". The board is divided into five columns, each with a header and a text box:

I am	I'm trying to	But	Because	Which makes me feel
Kameshwari	The aim of this project is to design and develop an IoT-based Weather Adaptive Street Lighting System that can dynamically adjust lighting levels in response to changing weather conditions. The system should be capable of monitoring real-time weather data, such as rain, fog, snow, or ambient light levels, and automatically adapt the brightness of street lights accordingly.	Adaptive Lighting Control	Based on the weather data, the system should intelligently adjust the brightness of street lights, ensuring optimal visibility for road users while minimizing energy consumption during favorable weather conditions.	I feel that the proposed system is to provide a more energy-efficient and environmentally friendly street lighting solution that can adapt to changing weather conditions.

The board also features a left sidebar with various Miro tools (selection, text, eraser, etc.) and a top navigation bar with browser tabs and a Miro logo.