

## 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/aGE2NIhrTE5ka2FzVmtzbGxFMFVeFY3d09Db1RWNmZKMW5wWTRDczMwMGZJN3hUTDJrOHUyRkQzYmk4aW9KQXwzNDU4NzY0NTU0NTQwMjUzMTk0fDI=?share\\_link\\_id=925473256277](https://miro.com/welcomeonboard/aGE2NIhrTE5ka2FzVmtzbGxFMFVeFY3d09Db1RWNmZKMW5wWTRDczMwMGZJN3hUTDJrOHUyRkQzYmk4aW9KQXwzNDU4NzY0NTU0NTQwMjUzMTk0fDI=?share_link_id=925473256277)

#### 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 content box. The columns are:

- I am**: KAMALESHWARI M
- I'm trying to**: Design an IoT-based Weather Adaptive Street Lighting System to optimize energy consumption and improve road safety in urban areas.
- But**: The existing street lighting systems operate on fixed schedules or light sensors, which often result in unnecessary energy consumption during daylight or low-traffic periods. Moreover, they do not respond to changing weather conditions, which can impact visibility and road safety.
- Because**: The goal of this project is to develop an intelligent street lighting system that adapts to real-time weather conditions, such as ambient light levels, rain, fog, or snow.
- Which makes me feel**: The specific requirements and scope of the project may vary depending on the available resources, budget, and target deployment environment.

The board interface includes a toolbar on the left with various drawing tools, a top navigation bar with the Miro logo and search bar, and a bottom status bar showing the time as 2:43 PM on 5/17/2023.