

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	

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/MXV4MmhwT2RKWm5xSUp2NzBtdFpkQXZqQ3FESUNHVU1KbmRjRW1ibkUyNUtQWmZWVG14RG8waEhJME5DU05mRnwzNDU4NzY0NTU0NTQwNTM4OTI2fDI=?share_link_id=556810231901

Example:

The screenshot shows a Miro board titled "Customer Problem Statement Template". The board contains a five-column problem statement for an IoT-based weather adaptive street lighting system. The columns are: "I am", "I'm trying to", "But", "Because", and "Which makes me feel". The text in the columns is as follows:

- I am:** SATHYA K
- I'm trying to:** In an IoT-based weather adaptive street lighting project, you are trying to develop a system that utilizes Internet of Things (IoT) technologies to automatically adjust street lighting levels based on real-time weather conditions. The main goal is to enhance energy efficiency and visibility by dynamically adapting the lighting to match the current weather situation.
- But:** While the system can adjust lighting levels based on weather conditions, it may not be possible to control individual street lights independently. Depending on the infrastructure and hardware limitations, the system may operate at a broader level, controlling groups of street lights simultaneously rather than each light individually.
- Because:** Adapting street lighting to match prevailing weather conditions improves visibility for pedestrians and motorists. During adverse weather like rain, fog, or snowfall, the system can increase lighting levels to compensate for reduced visibility, enhancing safety on the streets.
- Which makes me feel:** Developing an IoT-based system puts you at the forefront of technology and innovation. You have the opportunity to leverage cutting-edge IoT technologies, data analytics, and connectivity to design a solution that has a tangible and positive impact on society.