

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	29 april 2023
Team ID	NM2023TMID02708
Project Name	IoT BASED Weather Adaptive Based Street Lighting System

#### Brainstorm & Idea Prioritization Template:

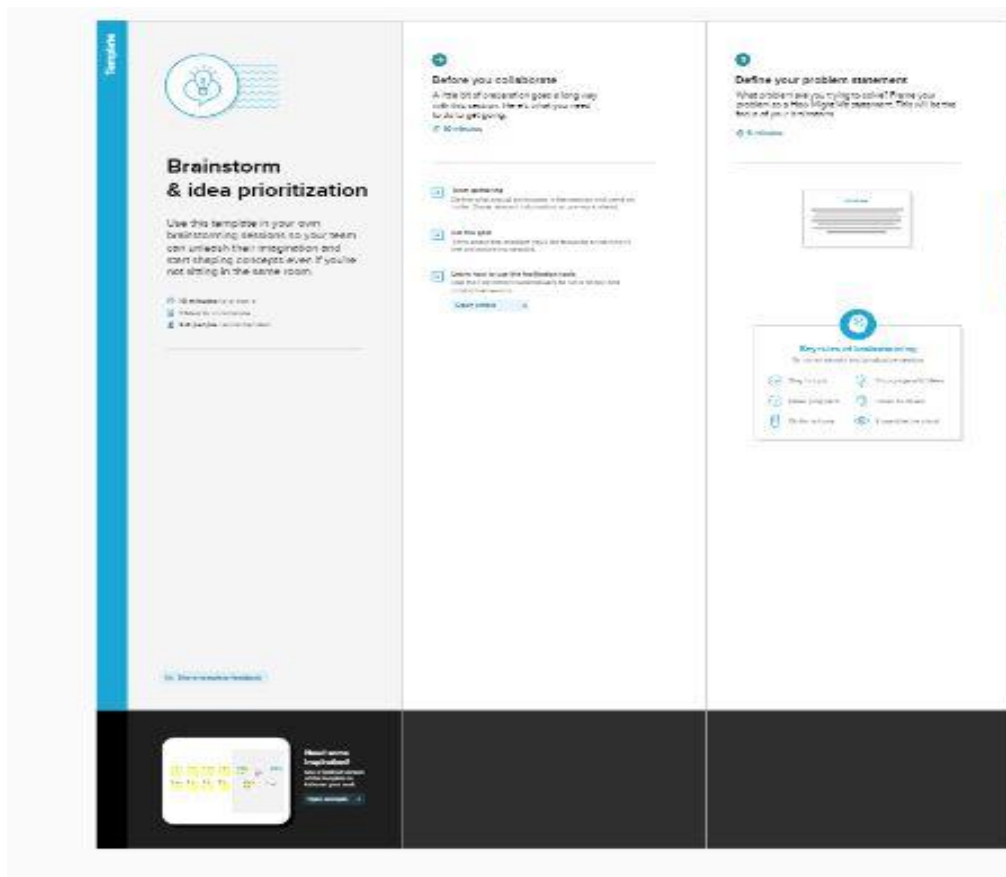
Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Reference:

<https://app.mural.co/invitation/mural/iotbasedweatheradaptivestreet9545/1682875754644?sender=ucb6ba4f171e10dd744943891&key=86866e67-1d84-4bb1-a1cf-4947a89ef760>

#### Step-1: Team Gathering, Collaboration and Select the Problem Statement



## Step-2: Brainstorm, Idea Listing and Grouping

### 2 Brainstorm

Write down any ideas that come to mind that address your problem statement.

30 minutes

**Sneha bai**

- Use the street lighting system to collect data on traffic patterns and provide real-time traffic updates to drivers and pedestrians.
- Integrate sensors into street lighting system to detect changes in weather patterns and adjust lighting levels accordingly.

**Deepika**

- Use machine learning algorithms to detect changes in weather patterns and adjust lighting levels accordingly.
- Incorporate sensors that can detect air pollution levels and adjust lighting levels to promote air purity.

**Shruvanshwar**

- Use the street lighting system to provide public Wi-Fi access and improve connectivity in the community.

**Jemila gracy**

- Integrate sound sensors into the street lighting system to monitor noise pollution levels and adjust lighting levels accordingly.
- This could help to create a more peaceful and quiet environment for residents, thereby improving their quality of life and promoting a sustainable lifestyle.

### 3 Group Ideas

Take time sharing your ideas with others during this or a dedicated session. Once all ideas have been shared, go ahead and group similar ideas together. The final is to agree upon a set of ideas by voting on the ideas that you like the most.

30 minutes

- Use the street lighting system to collect data on traffic patterns and provide real-time traffic updates to drivers and pedestrians. Use the street lighting system to provide public Wi-Fi access and improve connectivity in the community. Use machine learning algorithms to detect changes in weather patterns and adjust lighting levels accordingly. Incorporate sound sensors into the street lighting system to monitor noise pollution levels and adjust lighting levels accordingly.

## Step-3: Idea Prioritization

### 4 Prioritize

Your ideas should all be on the same page about what's important, meaning for users. Place your ideas on this grid to determine which ideas are important and which are feasible.

30 minutes

**Importance**

How much does this idea matter to the user? How much does it matter to the community? How much does it matter to the environment?

**Feasibility**

How easy is it to implement this idea? How much does it cost? How much time does it take to implement?

- Use the street lighting system to collect data on traffic patterns and provide real-time traffic updates to drivers and pedestrians.
- Use the street lighting system to provide public Wi-Fi access and improve connectivity in the community.
- Use machine learning algorithms to detect changes in weather patterns and adjust lighting levels accordingly.
- Incorporate sensors that can detect air pollution levels and adjust lighting levels to promote air purity.
- Integrate sound sensors into the street lighting system to monitor noise pollution levels and adjust lighting levels accordingly.
- Use the street lighting system to provide public Wi-Fi access and improve connectivity in the community.

### 5 After you collaborate

You can now start to work on the ideas that you and your team have chosen. You can now start to work on the ideas that you and your team have chosen.

30 minutes

**Quick action plan**

- Define the project**
  - What is the goal of the project? What are the key objectives? What are the key deliverables?
- Assign the team**
  - Who will be responsible for each task? What are the roles and responsibilities of each team member?
- Develop the plan**
  - What are the key milestones? What are the key tasks? What are the key deliverables?

**Keep everything on track**

- Monitor progress**
  - How often will you check in with the team? What are the key metrics to track?
- Adjust the plan**
  - What are the key changes? What are the key deliverables?
- Communicate**
  - How often will you communicate with the team? What are the key metrics to track?

**Get the team to work**