Ideation Phase Brainstorm & Idea Prioritization Template

Date	27 APRIL 2023
Team ID	NM2023TMID09640
Project Name	IoT Based Weather Adaptive Street Lighting System
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template: IoT Based Weather Adaptive Street Lighting System

Step-1: Team Gathering and Problem Statements

ADITHYA N

What sensors and hardware components will be required to collect and transmit weather data? How can the system be designed to handle and process large amounts of data in real-time? How can the system be designed to provide accessibility and inclusivity for users with disabilities?

What measures can be taken to reduce maintenance costs and increase system longevity? What type of partnerships and collaborations will be needed to ensure successful integration with other smart city technologies?

GUGANESH RAJ S

How can the system be designed to minimize power usage and maximize efficiency?

How can machine learning and artificial intelligence be incorporated to improve accuracy and efficiency? How can user feedback be incorporated to improve the system over time?

How can the system be designed to minimize waste and maximize sustainability?

What type of compatibility will be required to ensure the system can be easily integrated with existing infrastructure and technology?

DINESH KUMAR P

What type of connectivity will be needed to ensure the system functions optimally?

How can the data collected from sensors be analyzed to determine the optimal lighting levels?

How can the system be designed to provide a seamless user experience for both pedestrians and drivers?

What type of business model can be used to ensure the system remains profitable and scalable? How can the system be designed to be flexible and adaptable to future changes or advancements?

MAGESH S

How can the

system be

designed to ensure

interoperability with

other systems and

devices?

What is the optimal placement of sensors and hardware components to ensure accurate data collection?

what measures can be taken to ensure data privacy and security?

What measures can be taken to ensure data privacy and security?

What type of user education and training will be required to ensure effective use of the system?

How can the system be designed to use renewable energy sources and reduce carbon footprint?

ARUNKUMAR M

What type of communication protocols will be used to ensure seamless data transmission between sensors and the lighting system? What data visualization tools can be used to help users better understand the data collected by the system? How can the system be designed to incorporate user preferences and settings for personalized

What type of endof-life planning and disposal methods will be required to minimize environmental impact? What type of open standards and protocols can be used to enable easy integration and compatibility with other systems: Team ID: NM2023TMID09640 Team Leader: ADITHYA N

Team member : DINESH KUMAR P Team member : GUGANESH RAJ S

Team member : MAGESH S Team member : ARUNKUMAR M

Step-2: Brainstorm, Idea Listing and Grouping

Hardware and Connectivity

What sensors and hardware components will be required to collect and transmit weather data?

How can the system be designed to minimize power usage and maximize efficiency? What type of connectivity will be needed to ensure the system functions optimally?

Integration and Compatibility:

What type of partnerships and collaborations will be needed to ensure successful integration with other smart city technologies?

What type of oper standards and protocols can be used to enable easy integration and compatibility with other systems How can the system be designed to be flexible and adaptable to future changes or advancements?

Maintenance and Sustainability

What measures can be taken to reduce maintenance costs and increase system longevity?

How can the system be designed to use renewable energy sources and reduce carbon footprint?

User Experience and Interface

How can the system be designed to provide accessibility and inclusivity for users with disabilities? How can the system be designed to provide a seamless user experience for both pedestrians and drivers?

What type of user education and training will be required to ensure effective use of the system?

Data Collection and Analysis

How can the system be designed to handle and process large amounts of data in real-time? What measures can be taken to ensure data privacy and security? How can user feedback be acorporated to improve the system over

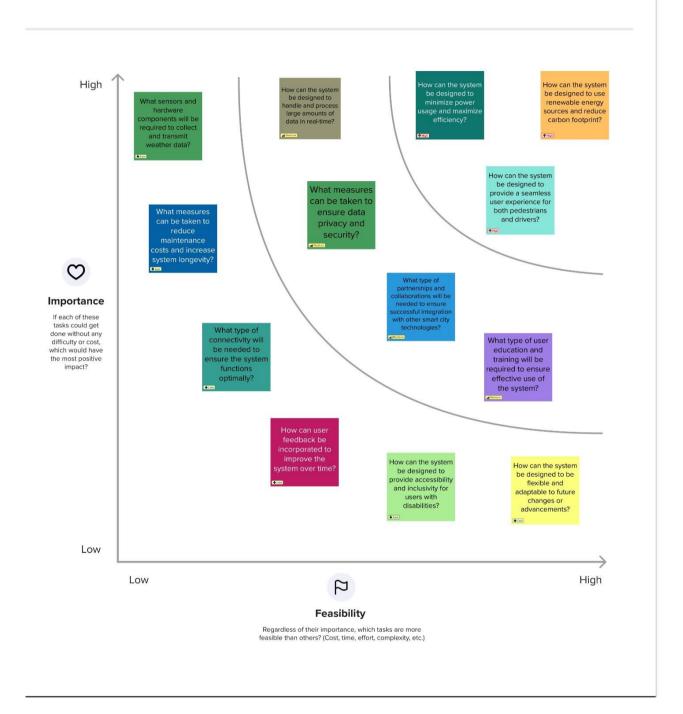
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Step-3: Idea Prioritization



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