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| Date | 03 November 2023 |
| Team ID | NM2023TMID10488 |
| Project Name | Creating blog using Wordpress platform |



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| 1. | Problem Statement (Problem to be solved) | The problem that a weather adaptive street  lighting system based on IoT seeks to address is the inefficient and wasteful use of energy in traditional street lighting systems.  In many cities, streetlights are typically set to a fixed brightness level, regardless of the  weather conditions. |
| 2. | Idea / Solution description | A weather-adaptive street lighting system based on IoT would be a network of  intelligent streetlights that can automatically adjust their brightness levels based on real- time weather conditions.  This system could help reduce energy  consumption and light pollution while  ensuring the safety of pedestrians and drivers on the roads. |
| 3. | Novelty / Uniqueness | The system would be designed to  automatically adjust the brightness of  streetlights based on the current weather conditions.  The system could also incorporate sensors that detect changes in weather conditions, such as rain or snow, and adjust the lighting accordingly. |
| 4. | Social Impact / Customer  Satisfaction | A weather adaptive street lighting system based on IoT has the potential to make a significant social impact and improve  customer satisfaction in several ways.  This would not only reduce energy  consumption but also enhance visibility,  making it safer for pedestrians and motorists to navigate the streets during inclement  weather. As a result, the number of accidents due to poor visibility could be reduced,  resulting in fewer injuries and fatalities. |
| 5. | Business Model (Revenue Model) | A business model for a weather-adaptive  street lighting system based on IoT could be: \*Sales and installation .  \*Subscription-based services.  \*Data monetization. |

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|  |  | \*Energy savings.  \*Partnerships and collaborations. |
| 6. | Scalability of the Solution | The scalability of a weather adaptive street lighting system based on IoT depends on several factors such as the number of  streetlights that need to be deployed, the  geographical area to be covered, the data  transmission infrastructure available, and the power requirements of the system.  Additionally, it is important to consider the power requirements of the system and ensure that the system can operate efficiently on a  range of power sources, including solar power and battery backup. |