Vishwakarma Institute of Technology, Pune - 411037
Department of Multidisciplinary Engineering

FAULT DETECTION AND LOCATION TRACKING SYSTEM FOR STREET LIGHTING

Problem Statement

- The project addresses the absence of a unified solution for efficient fault management in street lighting systems by developing an Innovative Fault Detection Solution.

Objective

Our project aims to enhance fault detection, precise location transmission, and energy efficiency in electrical systems. We focus on accurate fault identification, precise location reporting, and real-time energy consumption calculations. Collected data will train machine learning models for continuous optimization and advanced predictive capabilities.

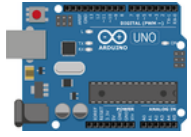
Tools and Technology

Arduino IDE

Web-Site


Android


Fire base


Arduino Uno

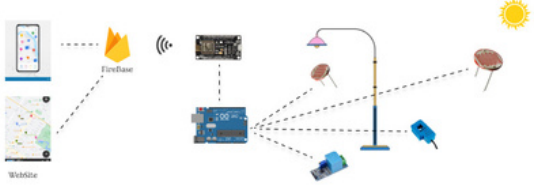

ESP 8266


ZMPT101B


LDR

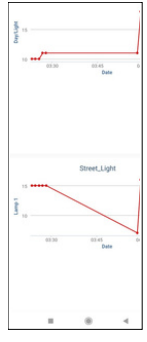

SCT-013

System Architecture



System Architecture

Result



Conclusion

- In conclusion, the "Fault Detection and Location Tracking System for Street Lighting" project will achieve significant milestones in enhancing the reliability and efficiency of urban lighting infrastructure.
- The system will incorporates effective fault detection, ensuring timely maintenance actions, and precise location tracking.

Group Details

Guide: Prof (Dr) S.M.Lambor

Group Members (SY-IT-B)

Neha Deshpande- 1230001
Pranav Jadhav- 1230007
Sai Kulkarni- 12320018
Sayali Sagarkar- 12320034
Isha Kulkarni- 12320068