



**SMART INDIA
HACKATHON
2022**

Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

National Institute of Design Madhya Pradesh

PS Code: ST888

Problem Statement Title: Automated feedback system to know the exact location of non-functional streetlights in the rural areas of Central India

Team Name: Black Pantherz

Team Leader Name: Viswanathan Krishnan

Institute Code: C-16537

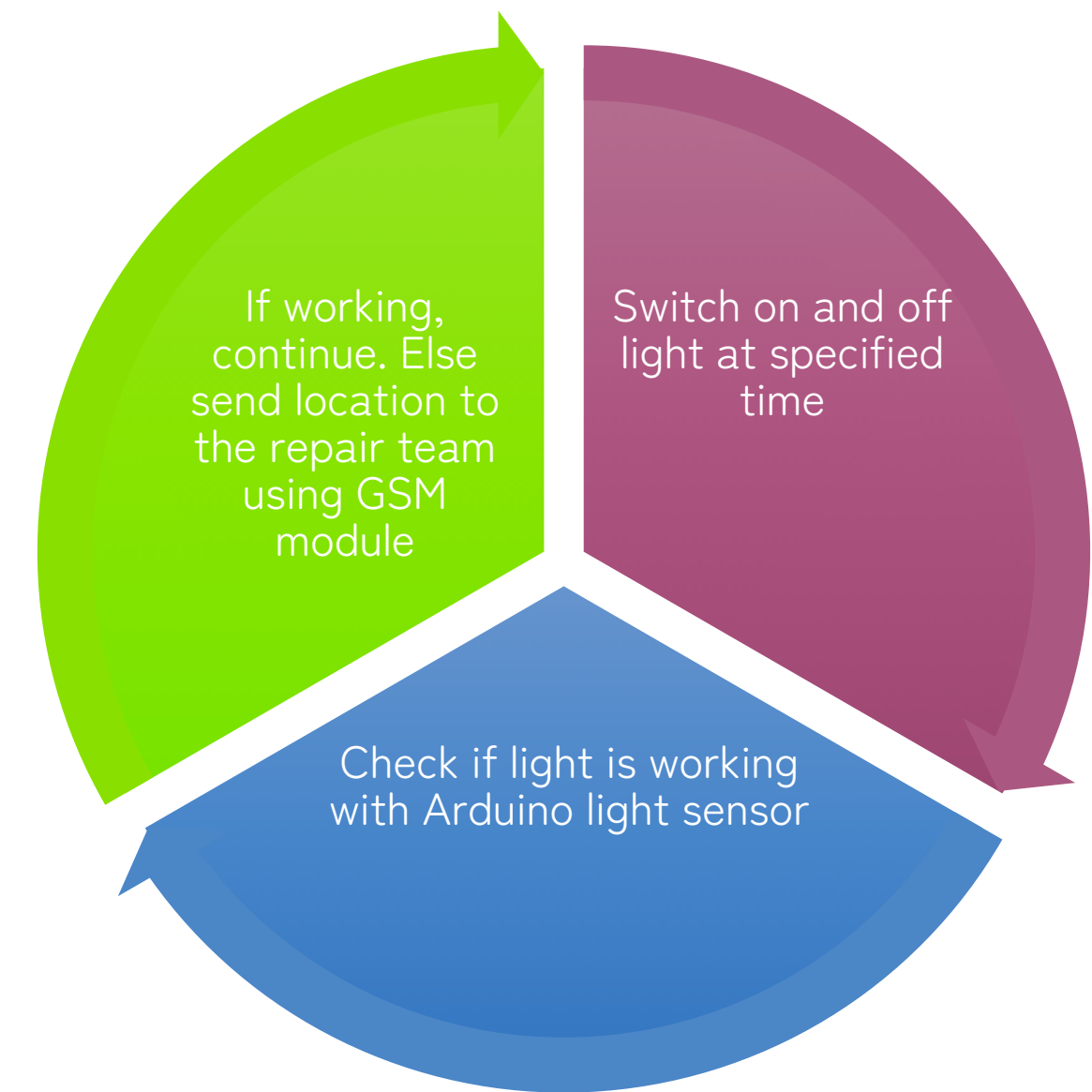
Institute Name: St Joseph's College of Engineering

Theme Name: Miscellaneous

Idea/Approach Details

Describe your idea/Solution/Prototype here:

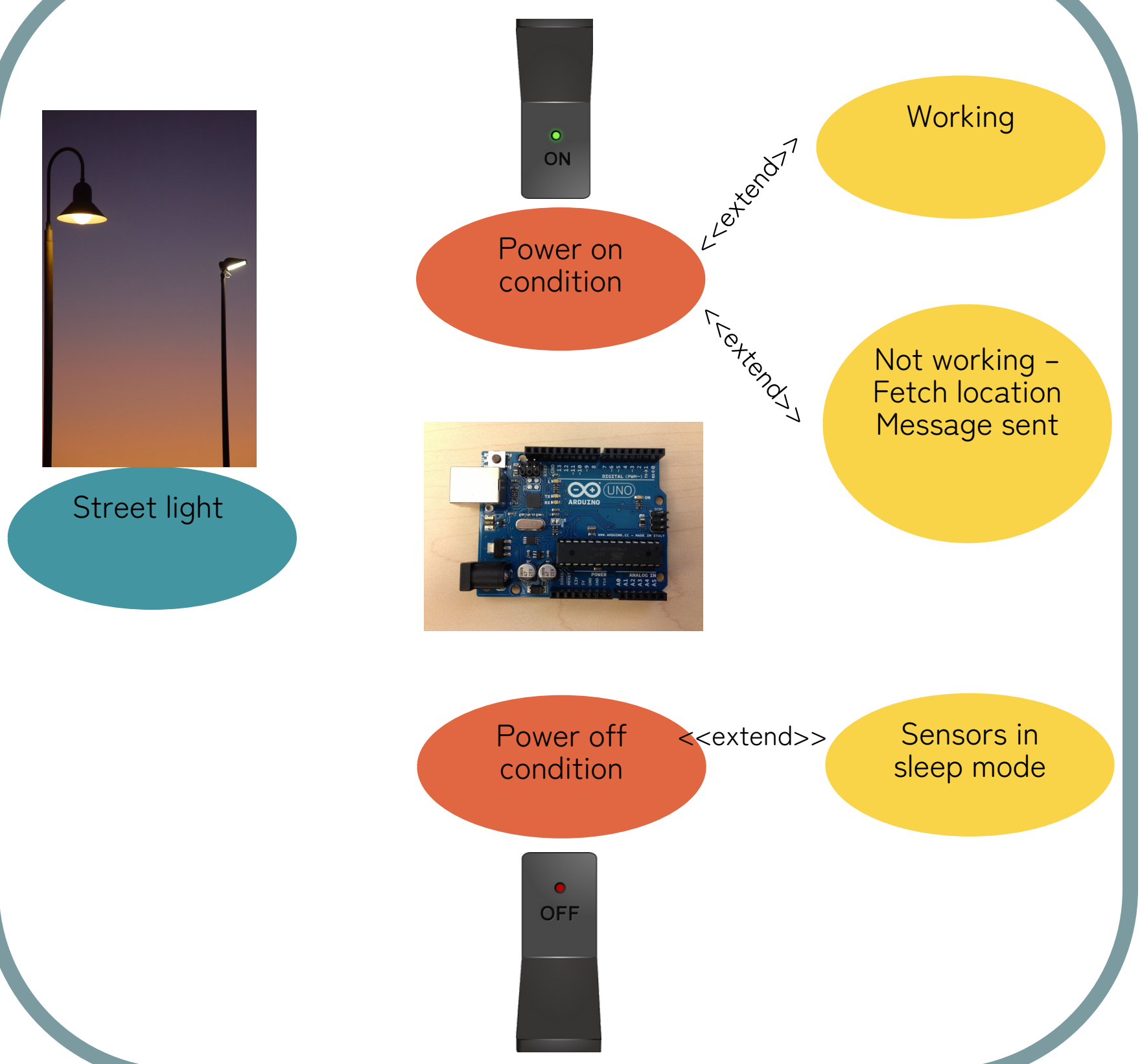
- The major idea is that the coordinates of the non-working streetlights are fetched and the coordinates are sent to the repair team to make the light repair quicker.
- The lights are switched on and switched off automatically at a fixed time everyday. If the light doesn't get switched on within the next 2-3 mins after the particular time, the notification is sent to the repair team.
- The notification is sent to the team with help of a sim placed inside. The coordinates which are predefined are sent to the repair team with help of GSM module using Arduino.



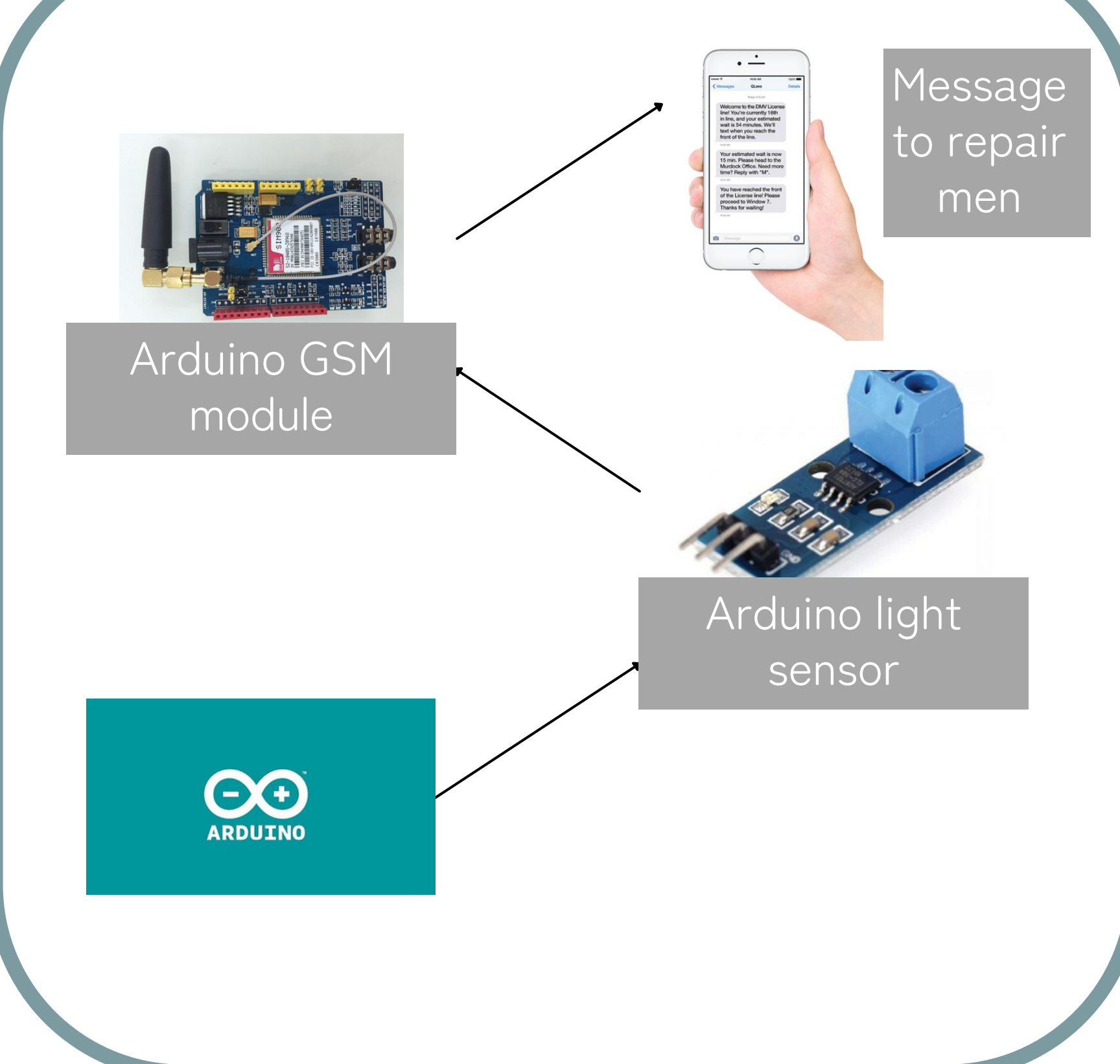
Tech Stack



USE CASE



DEPENDENCIES



Team Member Details

Team Leader Name: Viswanathan Krishnan

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): IT Year (I,II,III,IV): I

Team Member 1 Name: Siva Sankar G

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): IT Year (I,II,III,IV): I

Team Member 2 Name: Surya R

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): IT Year (I,II,III,IV): I

Team Member 3 Name: Rino Akshai E

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): IT Year (I,II,III,IV): I

Team Member 4 Name: Swetha PS

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): IT Year (I,II,III,IV): I

Team Member 5 Name: Swathika J

Branch (Btech/Mtech/PhD etc): Btech Stream (ECE, CSE etc): IT Year (I,II,III,IV): I

Team Mentor 1 Name: Anitha S

Category (Academic/Industry): Academy Expertise (AI/ML/Blockchain etc): Software Engineering , ML Domain Experience (in years): 7

Team Mentor 2 Name: Kripa Sekaran

Category (Academic/Industry): Academy Expertise (AI/ML/Blockchain etc): Wireless sensor Networks Domain Experience (in years): 8