ElectroQuest Problem Statement Guidelines

Theme of the Hackathon: "Sustainable Future"

a) Remote health diagnostics and record management system using IoT and AI for Rural Health care
b) Automated Electronic waste Identity and segregation systems
c) Smart irrigation systems for water-scarce regions and optimal quantity recommender system
d) Farm-to-market digital supply chain platforms
e) Dashboard for Energy & water consumption, actuation and optimization recommendation system

Essential Components:

1. Sensors and Mimicking of sensor data from Embedded platforms/boards
2. Global view of collected data using IoT protocols and connectivity options like Wi-Fi, LoRa, Bluetooth etc.
3. Database management and mobile App interface for visualization
4. AI-ML recommender system for optimization/wastage reduction targeting sustainability theme
5. Actuation or mimic of Actuation with notifications to relevant stakeholders in loop with definition of access levels to different users

Evaluation metrics:

1. Novelty of the problem statement (one of the primary factor)
2. Scalability and sustainability of the solution
3. Working Demo
4. Connectivity, UI, Analytics/AI-ML

Idea PPT Submission Guidelines:

Slide-1: Title of the Problem statement and Group details

Slide-2: Existing solution and Novelty Justification

Slide-3: Holistic view of the Problem statement in a pictorial representation

Slide-4: List of Hard ware, soft ware modules (database, mobile app, protocols, AI-ML models etc) to be used

Slide-5: List of Targeted hardware and software outcomes

Slide-6: Details on work flow Implementation and plan for end-to-end demo

Note:

1. Once a problem statement is submitted in the form of PPT, change of problem statement is not allowed. PPT submitted initially will be taken as reference for further evaluations.
2. Each team has to plan the problem statement based on the list of components available