Project Design Phase -Solution Architecture

Date	31 october 2022
Team ID	PNT2022TMID43889
Project Name	SMARTFRAMER- IoT ENABLED SMART FARMING APPLICATION
Maximum Marks	4 Marks

Solution Architecture:

- *The smart fire management system includes a Gas sensor, Flame sensorand temperature sensors to detect any changes in the environment.*
- *Based on the temperature readings and if any Gases are present the exhaustfans are powered ON.*
- *If any flame is detected the sprinklers will be switched on automatically.*
- *Emergency alerts are notified to the authorities and Fire station.*

Solution Architecture Diagram:

Internet

Smart Farm Homepage

Field Support Center

Rain Sensor

Wind Sensor

Sun Sensor

Weather Station

Smart Greenhouse Management System

CCTV

Flow Fan

Web Camera

Ceiling

Recording Device

CO_2 Control

UPS

Integrated Control Unit

Heater

Thermo-Hygrometer

CO_2 Sensor

Thermostat

Control of Water Pipe

Soil Information Sensor

Nutrient Solution Information Sensor

Nutrient Solution Unit