MEPCO SCHLENK ENGINEERING COLLEGE

Department of Electronics and Communication Engineering

IBM NALAIYA THIRAN

DESIGN PHASE 2

TEAM ID : PNT2022TMID18128

TITLE : Smart Farmer- IoT Enabled Smart Farming Application

DOMAIN NAME : Internet of Things

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Solution Requirements (Functional & Non-functional)

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Software	Web UI, Node-red, MIT app
FR-2	IoT devices	Sensors and Wi-Fi module.
FR-3	Cloud platform	IBM Watson

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

NFR No.	Non-Functional Requirement	Description
NFR-1	Security	It has low level of security features due to integration of sensor data.
NFR-2	Performance	Performance is very high and the yield of crop is also improved.
NFR-3	Reliability	The Smart Farmer is more robust and reliable as it uses IOT sensory nodes for monitoring the real time production of goods.
NFR-4	Usability	Time consumption is less, Productivity is high.