

PROJECT DESIGN
PHASE-II
SOLUTION REQUIREMENTS (FUNCTIONAL &
NON-FUNCTIONAL)

Date	09 November 2022
Team ID	PNT2022TMID29726
Project Name	IOT based smart crop protection system for agriculture
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Log in	Checking necessary Credentials
FR-4	Checking Weather Details	Temperature Details Humidity Details
FR-5	Logout	Exit

Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Allows farmers to complete their day-to-day challenges
NFR-2	Security	Is used to protect the farm from animals, Birds & Insects
NFR-3	Reliability	Now a days the Electronic Sensors are more Reliable and provide correct data
NFR-4	Performance	Sensors helps to get instant warnings of soil salinity and moisture. Air and soil temperature system that allows farmers to schedule watering times and predict the chances of pests and also detect the motion of animals and birds.
NFR-5	Availability	Equipment to auto adjust temperature, humidity etc and also to detect animals' and birds' motion
NFR-6	Scalability	➤ As the equipments are low of cost enhancing the setup is easier.