

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	21 October 2022
Team ID	PNT2022TMID26021
Project Name	Project - Smart farmer-IoT enabled Smart farming application
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Remote Sensing	<i>Crop monitoring, Weather conditions, Soil Quality</i>
FR-2	Robotics	<i>Machine Navigation, Weeding Robots, Harvesting Robotics, Material Handling</i>
FR-3	Computer Imaging	<i>Quality Control, Sorting and Grading, Irrigation Monitoring.</i>
FR-4	Modern agriculture techniques	<i>Semi-Automatic robots, Drones, IoT based Remote sensing, Computer imaging.</i>

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<i>Helps farmers to better understand the important factors such as water, topography, aspect, vegetation and soil types.</i>
NFR-2	Security	<i>Access control and authentication is present.</i>
NFR-3	Reliability	<i>Its easily accessible and more accurate.</i>
NFR-4	Performance	<i>It increases the quantity and quantity of the product.</i>
NFR-5	Availability	<i>It's easily available at the presence of proper network connection and user friendly.</i>
NFR-6	Scalability	<i>It has high scalability</i>