

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

Date	23 October 2022
Team ID	PNT2022TMID04728
Project Name	Smart Farmer – IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The dashboard needs to be clear, uncluttered, and adaptable.
NFR-2	Security	Authentication - The user have a private dashboard for secured access.
NFR-3	Reliability	High-quality sensors were employed to provide long-lasting high precision and accuracy.
NFR-4	Performance	Performance can be enhanced by employing efficient sensors and developing efficient code.

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through gmail/LinkedIn Mobile Application Via wifi
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Authentication	Using biometrics or PIN authentication to carry out some delicate app operations.
FR-4	Cloud Database	Database service on cloud
FR-5	Cloud Connectivity	Connecting Hardware to cloud

FR-6	Exporting Reports	Allowing users to export their yearly, monthly, weekly status.
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Non-functional Requirements:

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

NFR-5	Availability	The programme allows for control and monitoring at any time and from any location, depending on the farmer's comfort level.
NFR-6	Scalability	The application, which can be used for many different kinds of crops in the field, can be upgraded in the future.