

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

Date	03 October 2022
Team ID	PNT2022TMID19113
Project Name	SmartFarmer - 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	User Registration	Registration through Email Registration through Phone number
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User credentials check	Based upon the credential of the user, they will be proceeded
FR-4	External interface	The interfaces which connect the application, and the motors is done by IoT
FR-5	Transaction processing	Transaction of the data will be done via IoT from the application to IBM Cloud
FR-6	Reporting	The user can view the parameters result in the application and can control and do the further steps via same application

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User can easily learn how to access the application platform. Since, it is designed in a user friendly manner
NFR-2	Security	It has some security for the users to maintain certain privacy like the collecting data and storage of those data
NFR-3	Reliability	The database update process must roll back all related updates when any update fails
NFR-4	Performance	Performance of this is always depends upon the users that how frequently they are using it
NFR-5	Availability	Its availability is quite excellent. If it experiences any technical issues, it will be notified to the users about it suddenly
NFR-6	Scalability	The processing of the data and the transactions will be done in an efficient way