

PROJECT DESIGN PHASE-II

SOLUTION REQUIREMENTS (FUNCTIONAL & NON-FUNCTIONAL)

DATE	16 October 2022
TEAM ID	PNT2022TMID08084
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	User Registration	<ul style="list-style-type: none">• Registration through Form• Registration through Gmail
FR-2	User Confirmation	<ul style="list-style-type: none">• Confirmation via Email• Confirmation via OTP
FR-3	Sensor Function For Framing System	<ul style="list-style-type: none">• Measure the Temperature and Humidity• Measure the Soil Monitoring Check the crop diseases
FR-4	Manage Modules	<ul style="list-style-type: none">• Manage Roles of User• Manage User permission
FR-5	Check Whether Details	<ul style="list-style-type: none">• Temperature details• Humidity details
FR-6	Data Management	<ul style="list-style-type: none">• Manage the data of weather conditions• Manage the data of crop conditions• Manage the data of livestock conditions

NON-FUNCTIONAL REQUIREMENTS:

Following Are The Non-Functional Requirements Of The Proposed Solution.

FR NO.	NON-FUNCTIONAL REQUIREMENT	DESCRIPTION
NFR-1	Usability	<ul style="list-style-type: none">• User Friendly Guidelines For Users To Avail The Features.• Most Simplistic User Interface For Ease Of Use.
NFR-2	Security	<ul style="list-style-type: none">• All The Details About The User Are Protected From Unauthorized Access.• Detection And Identification Of Any Misfunctions Of Sensors.
NFR-3	Reliability	<ul style="list-style-type: none">• Implementing Mesh Iot Networks• Building A Multi-Layered Defence For Iot Networks.
NFR-4	Performance	<ul style="list-style-type: none">• The Use Of Modern Technology Solutions Helps To Achieve The Maximum Performances Thus Resulting In Better Quality And Quantity Yields.
NFR-5	Availability	<ul style="list-style-type: none">• This App Is Available For All Platforms
NFR-6	Scalability	<ul style="list-style-type: none">• Scalability Refers To The Ability To Increase Available Resources And System Capability Without The Need To Go Through A Major System Redesign Or Implementation