ProjectDesignPhase-II Solution Requirements(Functional&Non-functional)

Date	29 October 2022
TeamID	PNT2022TMID08447
ProjectName	Smart Farmer-IOT Enabled Smart
	FarmingApplication
MaximumMarks	4Marks

FunctionalRequirements:

Following are the functional requirements of the proposed solution.

FRNo.	FunctionalRequirement (Epic)	SubRequirement(Story/Sub-Task)
FR-1	UserRegistration	Registration through GmailRegistrationthroughphonenu mber
FR-2	UserConfirmation	Confirmation via EmailConfirmationvia OTP Confirmationviaverificationlinksenttoregisteredmai l id
FR-3	Rolesandservice	Chooseroles(ex:farmer,studentetc.)En terthepersonal details. Choosethetypeofserviceoroptions(ex:irrigation,pestman agement, cropmanagementetc.)
FR-4	Termsandconditions	Acceptsthetermsandconditionforthechosenroleando ptions
FR-5	Detailsoffarmandplans	Enter the details of farming land and vegetation. Choosethe crop you want to plant Choosethetypes ofplans (ex:regular and premium)
FR-6	Detailsaccordingtofarmi nformation	Check the weather informationEnter the soil nutrient and pH valueClickSAVE SoonthedetailswillsharetoregisteredmailExit

 $\textbf{Non-functional Requirements:} \ Following are the non-functional requirements \ of the proposed solution.$

FRNo.	Non-FunctionalRequirement	Description
NFR-1	Usability	A system is built for monitoring the crop field withthe help of sensors and automating the irrigationsystem and helps the farmer to understand theimportantaspects.
NFR-2	Security	Applicationsmustbedesignedwiththesecurityoftheir use in mind. This includes personal data andtheiruser'swell-being.
NFR-3	Reliability	It allows farmers to maximize yields using minimum resources such as water, fertilizers, seeds etc.
NFR-4	Performance	It increases efficiency and reduce theenvironmental impacts and to implement technology properly to minimize cost.
NFR-5	Availability	Thisconceptfocusedonprovidingtheagriculturalind ustry with the infrastructure to leverageadvancedtechnology.
NFR-6	Scalability	It provides the recognition of each object thatmakes up a solution and ensure communication. The system must remain operation alregardless.