ProjectDesignPhase-II SolutionRequirements(Functional&Nonfunctional)

Date	19 November 2022
Team ID	PNT2022TMID30401
ProjectName	GasLeakageMonitoring&AlertingSystem
MaximumMarks	4 Marks

FunctionalRequirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement(Epic)	SubRequirement(Story/Sub-Task)
FR-1	UserRegistration	☐ RegistrationthroughForm☐ OfflineRegistration
FR-2	UserConfirmation	☐ ConfirmationviaEmail☐ ConfirmationviaOTP
FR-3	User Authentication	 User verification through valid User ID andpassword.
FR-4	User Access	 RealtimeMonitoringof GasLeakageSystem,throughwebportalforaltorizedUsers.
FR-5	User Alert	☐ UserreceivesanalertthroughSMS.☐ TurnonAlertingSysteminIndustry.
FR-6	ReviewandFeedback	☐ ReceiveFeedbackfromUsers.

Non-functional Requirements:

 $Following a rethe non-functional\ requirements of the proposed\ solution.$

NFRNo.	Non-FunctionalRequirement	Description
NFR-1	Usability	EasierInstallationprocessandeasytouse
NFR-2	Security	Data transmission and handling throughsecuredprotocols.Credentialencryption& Cloud security.
NFR-3	Reliability	 Only authorized personnel have access to thesystem. Assured Data Security and Informationconciseness. LongerLifetimeofProduct/Service.
NFR-4	Performance	 High Accuracy of gas leakage detection inlocalizedarea. Faster Response to Gas Leakage Detection(SMSalert,valveclosing).
NFR-5	Availability	☐ TheusercanaccesstheSystem24/7.☐ Realtimemonitoringsystem.
NFR-6	Scalability	 Thesystemisscalableevenincaseofmanyga ssensors.Or in caseofmanysupervisors.