ProjectDesignPhase-II

SolutionRequirements(Functional&Non-functional)

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| Date | 14October2022 |
| TeamID | PNT2022TMID17177 |
| ProjectName | Project-Smartfarmer-IOTenabledsmartfarming  application |
| MaximumMarks | 4Marks |

# FunctionalRequirements:

Followingarethefunctionalrequirementsoftheproposedsolution.

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| --- | --- | --- |
| **FRNo.** | **FunctionalRequirement(Epic)** | **SubRequirement(Story/Sub-Task)** |
| FR-1 | UserRegistration | Registration through FormRegistrationthroughGmail  RegistrationthroughLinkedIn |
| FR-2 | UserConfirmation | ConfirmationviaOTP |
| FR-3 | UserProfile | Login  AccesstheProfile |
| FR-4 | Analyse | Datafromsmartsensorscanbeanalyzedforpredictive  analysisandautomateddecision-making. |
| FR-5 | Recommend | Basedonthefarmingthesoftwarerecommendsthe  automatedirrigationpractices. |

# Non-functionalRequirements:

Followingarethenon-functionalrequirementsoftheproposedsolution.

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| **FRNo.** | **Non-FunctionalRequirement** | **Description** |
| NFR-1 | **Usability** | End users can monitor and control their connectedfarmusingIOTapplicationsontheirsmartphonesor  tablets. |
| NFR-2 | **Security** | Thesoftwarekeepstheuser’sinformationmore  securely. |
| NFR-3 | **Reliability** | Thesmartfarm,embeddedwithIOTsystems,couldbe called a connected farm, which can support awiderangeofdevicesfromdiverseagricultural  devicemanufactures. |
| NFR-4 | **Performance** | Itisauser-friendlysoftwareandhavehigh  performance. |
| NFR-5 | **Availability** | Availableforeveryuser,visibleforallusersand  farmer. |
| NFR-6 | **Scalability** | Theproposedprecisionfarmingstructureallowstheimplementationofaflexiblemethodologythatcan  beadoptedtodifferenttypesofcrops. |