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| Project Design Phase-II | |
| Solution Requirements (Functional & Non-functional) | |
| Team ID | PNT2022TMID24187 |
| Project Name | Smart Farmer - IoT Enabled Smart Farming Monitoring Application |
| Maximum Marks | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

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| FR No. | Functional  Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|  | | Online |
| FR-1 | User Registration | Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Cloud Account | Creating an IBM cloud account  Sign in and confirmation via OTP/Mail |
| FR-4 | MIT App Account | Download MIT App  Sign up/Sign in MIT App  Confirmation via OTP/Mail |
|  | | Offline |
| FR-1 | Sensor Setup | Setting up of required sensors in required places Connecting the main controller to the IBM cloud platform |

Non-functional Requirements:

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

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| --- | --- | --- |
| FR No. | Non-Functional Requirement | Description |
| NFR-1 | Usability | Usability includes easy learnability, efficiency in use, remembering, and subjective pleasure. |
| NFR-2 | Security | Data will be protected from their production until the decision-making and storage stages. |
| NFR-3 | Reliability | By using a share protection scheme we can provide better security at optimal cost |
| NFR-4 | Performance | The idea of implementing integrated sensors in the field will be more efficient for overall monitoring. |
| NFR-5 | Availability | Data is will stored in the cloud and so will be available globally. |
| dNFR-6 | Scalability | Since cloud technology has a variety of scalability options we can scale based on the needs in real-time |