**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| --- | --- |
| Date | 03 October 2022 |
| Team ID | PNT2022TMID34035 |
| Project Name | Project – smart former |
| 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)** |
| FR-1 | Monitoring climate change | The system can be implemented directly in felid to altert climate change |
| FR-2 | Green house automation | In order to provide real time monitoring control crop growth |
| FR-3 | Crop management | It sowing of seeds ,continues with crop growth ,crop health and soil health |
| FR-4 | Precision farming | farming management concept based on observing, measuring and responding to inter and intra-field variability in crops |
| FR-5 | Agricultural drones | Agricultural drones provide information on crop growth stages, crop health, and soil variations |
| FR-6 | Automating the irrigation system | the use of a device to operate irrigation structures so the change of flow of water from bays can occur in the absence of the irrigator |

**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** | Usable systems are straightforward to use by as many people as possible,  whether this is end-users of a website, or administrators and content editors  working with a back-end system. |
| NFR-2 | **Security** | Security is a non-functional requirement assuring all data inside the system  its part will be protected against malware attacks or unauthorized access. |
| NFR-3 | **Reliability** | Reliability specifies how likely the system  its element would run without a failure for a given period of time  under predefined conditions. |
| NFR-4 | **Performance** | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  |   In other words, a non-functional requirement will describe  how a system should behave and what limits there are on its functionality. | 10:00 AM (2 minutes ago) |  | https://mail.google.com/mail/u/0/images/cleardot.gif  https://mail.google.com/mail/u/0/images/cleardot.gif | | |  | | --- | | https://mail.google.com/mail/u/0/images/cleardot.gif | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | |  | | 10:00 AM (0 minutes ago) |  | https://mail.google.com/mail/u/0/images/cleardot.gif  https://mail.google.com/mail/u/0/images/cleardot.gif | | |  | | --- | |  | | | | |
| NFR-5 | **Availability** | Availability describes how likely the system is accessible to a user at a given point in time. |
| NFR-6 | **Scalability** | Scalability assesses the highest workloads under  which the system will still meet the performance requirements. |