**MAHENDRA INSTITUTE OF TECHNOLOGY**

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|  | **Z:\COLLEGE\MIT Logo - Small.jpg**  **Department of Computer Science and Engineering**  **Smart Farmer-IOT Enabled Smart Farming Application**  **IBM NALAIYATHIRAN**  **Solution Requirements**   |  |  | | --- | --- | | **TITLE** | **Smart Farmer-IOT Enabled Smart Farming Application** | | **DOMAIN NAME** | INTERNET OF THINGS | | **TEAM ID** | PNT2022TMID17252 | | **LEADER NAME** | KARTHICKRAJA M | | **TEAM MEMBER NAME** | KAVIN M  KAVIYARASAN R  LOGANATHAN K | | **MENTOR NAME** | DIVYA BHARATHI G | |

# 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 | User Registration | Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Log in to system | Check Credentials Check  Roles of Access. |
| FR-4 | Manage Modules | Manage System Admins Manage Roles of User Manage User permission |
| FR-5 | Check whether details | Temperature details Humidity details |
| FR-6 | Log out | Exit |

# 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 learn ability, efficiency in use, remember ability, lack of errors in operation and subjective pleasure. |
| NFR-2 | **Security** | Sensitive and private data must be protected from their production until the decision-making and storage stages. |
| NFR-3 | **Reliability** | The shared protection achieves a better trade-off between costs and reliability.  The model uses dedicated and shared protection schemes to avoid farm service outages. |

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| NFR-4 | **Performance** | the idea of implementing integrated sensors with sensing soil and environmental or ambient parameters in farming will be more efficient for  Overall monitoring. |
| NFR-5 | **Availability** | Automatic adjustment of farming equipment made possible by linking information like crops/weather and equipment to auto-adjust temperature,  humidity, etc. |
| NFR-6 | **Scalability** | Scalability is a major concern for IoT platforms. It has shown that different architectural choices of IoT platforms affect system scalability and that automatic real time decision-making is feasible in  An environment composed of dozens of thousand. |