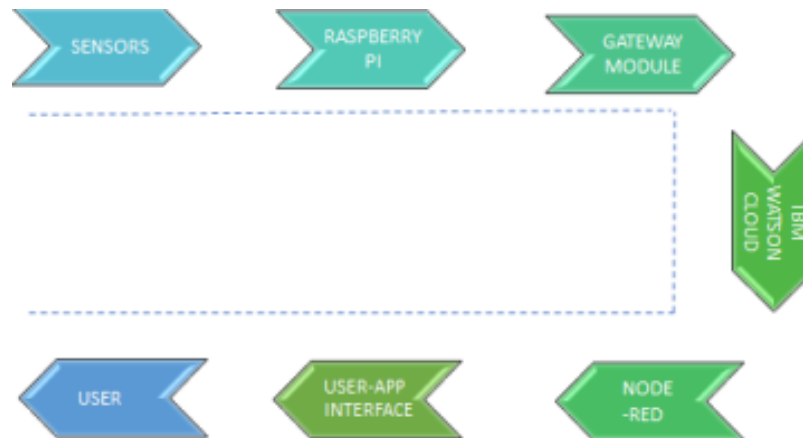


Project Design Phase-II

Data Flow Diagram & User Stories

| | |
|---------------|--|
| Date | 26 October 2022 |
| Team ID | PNT2022TMID40891 |
| Project Name | Project - IoT Based smart Crop Protection System for Agriculture |
| Maximum Marks | 4 Marks |

DATA FLOW DIAGRAM:



User Stories

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|-----------|-------------------------------|-------------------|-------------------|---------------------|----------|---------|
| | | | | | | |

| | | | | | | |
|-----------------------------|---|-------|--|---|--------|----------|
| Customer (Farmer) | Maintaining Fields | USN-1 | As a user, I can monitor the growth of crops and protect the crops against animals | I can maintain the fields with less labor | High | Sprint-1 |
| | Analyzing Problems | USN-2 | As a user, I collect the required information about the problems on agriculture fields | I can ask my field owner directly. | Low | Sprint-2 |
| | | USN-3 | As a user, I can monitor the moisture level in soil and solve the problems by using Smart IOT System | I can take remedial action immediately | High | Sprint-1 |
| Project Designers | Identifying the problem and provide solutions | USN-4 | As a user, I can sense the water level and flame in the field using sensor and monitor using IOT | I can perform this actions via IoT. | Medium | Sprint-1 |
| | | USN-5 | As a user, I can make services for Irrigation, pesticides, Fertilization, and Soil preparation | I can solve this problem using IOT | High | Sprint-1 |
| | | | As a user, I can monitor the field against animal attacks using a camera interface module and appropriate actions can be taken | I can monitor the field continuously. | Medium | Sprint-2 |
| Customer (Field Maintainer) | Problem solutions | USN-6 | As a user, areas can be monitored from a remote place | Checking Process | Medium | Sprint-3 |
| | Application | USN-7 | As a user, I can respond to the problems in the fields immediately | Continuous monitoring and remedial actions. | Medium | Sprint-3 |
| | Final Process | USN-8 | This proposed smart IOT-based crop protection device is found to be cost effective and efficient | I can take necessary action if required. | Medium | Sprint-4 |