Project Design Phase-2

Data Flow Diagram & User Stories

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| **Team ID** | **PNT2022TMID20252** |
| **Project Name** | **IoT based Smart Crop Protection System For Agriculture** |
| **Maximum Marks** | **4 Marks** |

RESULTING ACTIVITY

INSECTS ACTIVITY DETECTION

MONITORING THE MOISTURES LEVEL USING MOISTURE

SENSOR

DOING ANALYSIS AND DISPLAYING DATA AND ALERTING

TO PREDICT ANY ANIMAL MOVEMENT

IOT DEVICE/DATA AGGREGATION

SENSING HUMIDITY LEVEL

HUMIDITY SENSOR

SENSOR DATA

TEMPERATURE SENSOR

MESSAGE INDICATION TO FARMER

SOUND ALARM

BUZZER ALERT ON ANIMAL’S ARRIVAL

USER STORY

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **User Type** | **Functional requirement (Epic)** | **User**  **Story**  **number** | **User Story/Task** | **Acceptance**  **criteria** | **Priority** | **Release** |
| Farmer (Mobile App user) | Registration | USN-1 | User can register in the web application | I can access my account | High | Sprint 1 |
|  |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application | I can verify the email for further process | High | Sprint 1 |
|  | Login | USN-3 | User can login to the application by entering email & password | I can login to my account | High | Sprint 1 |
|  | Dashboard | USN-4 | User can view the temperature and humidity | I can view the data given by the device | High | Sprint 2 |
|  |  | USN-5 | User can view the level of soil moisture value | I can view the data given by the device | High | Sprint 2 |
| Farmer (Web user) | Dashboard | USN-1 | User can view the web page and get the information | I can view the data loaded in the page | High | Sprint 3 |
| Farmer | Notification | USN-1 | User act according to the alert given by the device | I can get the alert if the data exceeds specified threshold value | High | Sprint 3 |
|  | Action | USN-2 | User turns ON the motors/Buzzer/  Sound Alarm when there is a change in the received data | I can get the data and work according to it |  | Sprint 4 |
| Admin | Action | USN-1 | User solve the problem when someone faces any usage issues | I can resolve the issues and help when someone fails to understand the procedure | High | Sprint 4 |
|  | Administration | USN-2 | User stores every information | I can store the information gained from the controller | High | Sprint 4 |