**SPRINT DELIVERY**

Team details

Team ID: PNT2022TMID23850

Project Name: IOT Based Smart Crop Protection System for Agriculture

**Product Backlog, Sprint Schedule, and Estimation**

Use the below template to create product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 |  | US-1 | Create the IBM Cloud services which are being used in this project. | 6 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-1 |  | US-2 | Configure the IBM Cloud services which are being used in completing this project. | 4 | Medium | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-2 |  | US-3 | IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform. | 5 | Medium | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-2 |  | US-4 | In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials. | 5 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-3 |  | US-1 | Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform. | 10 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |

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| Sprint-3 |  | US-2 | Create a Node-RED service. | 10 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-3 |  | US-1 | Develop a python script to publish random sensor data such as temperature, moisture, soil and humidity to the IBM IoT platform | 7 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-3 |  | US-2 | After developing python code, commands are received just print the statements which represent the control of the devices. | 5 | Medium | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-4 |  | US-3 | Publish Data to The IBM Cloud | 8 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-4 |  | US-1 | Create Web UI in Node- Red | 10 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |
| Sprint-4 |  | US-2 | Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB | 10 | High | Subbulakshmi A  Shamala S  Rimashri K  Mounika N |

**Project Tracker, Velocity & Burndown Chart:**

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burndown charts can be applied to any project containing measurable progress overtime.

| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |