# SPRINT DELIVERY

|  |  |
| --- | --- |
| DATE | 6 NOVEMBER 2022 |
| TEAM ID | PNT2022TMID08727 |
| PROJECT | IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURAGRICULTURE |
| MARK | 2 MARK |

# 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 | Manoj kumar S  Ramesh S  Niranjan N  Yuvan sankar raja B |
| Sprint-1 |  | US-2 | Configure the IBM Cloud services which are being used in completing this project. | 4 | Medium | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| Sprint-2 |  | US-3 | IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so  create the IBM | 5 | Medium | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
|  |  |  |  |  |  |  |
| 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 | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| 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 | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| Sprint-3 |  | US-2 | Create a Node- RED service. | 10 | High | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| Sprint-3 |  | US-1 | Develop a | 7 | High | Niranjan N |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint -2 |  | US-2 | python script to publish random sensor data such as temperature, moisture, soil and humidity to the IBM IoT platform |  |  | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| Sprint-3 |  | US-2 | After developing python code, commands are received just print the statements which represent the control of the devices. | 5 | Medium | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| Sprint-4 |  | US-3 | Publish Data to The IBM Cloud | 8 | High | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |
| Sprint-4 |  | US-1 | Create Web UI in Node- Red | 10 | High | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
|  |  |  |  |  |  |  |
| 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 | Manoj kumar s  Ramesh s  Niranjan N  Yuvan sankar raja B |

# 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** | **Duratio n** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Complete d (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 |