Project Planning Phase

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID51290 |
| Project Name | IOT Based smart crop protection system for agriculture |
| Maximum Marks | 8 Marks |

# Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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 | Registration | USN-3 | Create the IBM cloud services which are being used in this project. | 6 | High | Iswariya  Jusmitha  Roshni  Ebsiba |
| Sprint-1 |  | USN-4 | Configure the IBM cloud services which are being used in completing this project. | 4 | Medium | Iswariya  Jusmitha  Roshni  Ebsiba |
| Sprint-2 |  | USN-1 | IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IOT platform | 5 | High | Iswariya  Jusmitha  Roshni  Ebsiba |
| Sprint-2 |  | USN-2 | In order to connect the IOT device to the IBM cloud ,create a device in the IBM Watson IOT platform and get the device credential | 5 | Medium | Iswariya  Jusmitha  Roshni  Ebsiba |
| Sprint-3 | Login | USN-1 | Configure the connection security and create API key that are used in the Node-Red service for accessing the IBM IOT platforms | 10 | High | Iswariya  Jusmitha  Roshni  Ebsiba |

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprints-3 | Dashboard | US-2 | Create a NODE-RED service | 10 | High | Iswariya  Jusmitha  Roshni  Ebsiba |
| Sprints-4 |  | US-1 | Create Web UI IN NODE-RED | 10 | High | Iswariya  Jusmitha  Roshni  Ebsiba |
| Sprints-4 |  | US-2 | Configure he Node-RED flow to receive data from the IBM IO T platforms and also use cloudant DB nodes to store the received sensor data in the cloudant DB | 10 | High | Iswariya  Jusmitha  Roshni  Ebsiba |

# Project Tracker, Velocity & Burndown Chart: (4 Marks)

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| --- | --- | --- | --- | --- | --- | --- |
| **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 Nov2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 14 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 21 Nov 2022 |
|  |  |  |  |  |  |  |

**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day)

