**Project Planning Phase**

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

**Sprint Delivery Plan**

|  |  |
| --- | --- |
| **Date** | 22 OCTOBER 2022 |
| **Team ID** | PNT2022TMID19105 |
| **Project Name** | Smart Farmer-IOT Enabled Smart Farming Application |
| **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 | Simulation creation and Python code development | USN-1 | Connect Sensors Wi-fi Module with python code and pubsub python code. | 2 | High | Balakrishna |
| Sprint-2 | Connecting python code with IBM Watson platform and node-red work flow | USN-2 | Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red | 2 | High | Ravi kiran |
| Sprint-3 | Creating MIT App Inventor and designing front end like username and password | USN-3 | Developing an application for the Smart farmer project using MIT App Inventor | 2 | High | Sumanth reddy |
| print-3 | Developing the backend of the mit app using blocks | USN-3 | Design the Modules and test the app | 2 | High | balakrishna |
| Sprint-4 | Web UI | USN-4 | To make the user to interact with software. | 2 | High | bhuvaneshwar |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | 28 Oct 2022 |
| Sprint-2 | 20 | 5 Days | 31 Oct 2022 | 04 Nov 2022 | 20 | 03 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 4 Days | 14 Nov 2022 | 17 Nov 2022 | 20 | 16 Nov 2022 |

**Velocity:**

Formula for Calculating Average Velocity of Sprint Duration

**Average Velocity= Sprint Duration/Velocity**

In Sprint-1 Average Velocity=20/6 =3.33

In Sprint-2 Average Velocity=20/5 =4

In Sprint-3 Average Velocity=20/6 =3.33

In Sprint-4 Average Velocity=20/4 =5

**Burndown Chart:**