

## Project Planning Phase

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

#### Sprint Delivery Plan

<b>Date</b>	22 OCTOBER 2022
<b>Team ID</b>	PNT2022TMID18437
<b>Project Name</b>	Smart Farmer-IOT Enabled Smart Farming Application
<b>Maximum Marks</b>	8 Marks

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

Use the below template to create product backlog and sprint schedule:

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-1	Simulation creation and Python code development	USN-1	Connect Sensors Wi-fi Module with python code	2	High	Prabhu Rahul khan Sarveshwaran Sri aakash
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	Prabhu Rahul khan Sarveshwaran Sri aakash
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	Prabhu Rahul khan Sarveshwaran Sri aakash
Sprint-3	Developing the backend of the mit app using blocks	USN-3	Design the Modules and test the app	2	High	Prabhu Rahul khan Sarveshwaran Sri aakash
Sprint-4	Web UI	USN-4	To make the user to interact with software.	2	High	Prabhu Rahul khan Sarveshwaran Sri aakash

### 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:

