# Project Planning Phase

**Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)**

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|---|---|
| Date | 26October 2022 |
| Team ID | PNT2022TMID48172 |
| Project Name | Project – 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 | USN-1 | As a user I need to connect the sensors and Arduino with a python code. | 2 | High | R.Jaffarnisha<br>A.Megavadhana<br>K.Maheswari<br>M.Rajapraba |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| | | | | | | M.Aashima |
| Sprint-2 | Software | USN-2 | As a user, I should create a device in the IBM Watson IOT platform and manage the workflow for IOT scenarios using Node-Red. | 1 | High | R.Jaffarnisha<br>A.Megavadhana<br>K.Maheswari<br>M.Rajapraba<br>M.Aashima |
| Sprint-3 | MIT App Inventor | USN-3 | To develop an application for the Smart farming project using MITA App Inventor. | 2 | Medium | R.Jaffarnisha<br>A.Megavadhana<br>K.Maheswari<br>M.Rajapraba<br>M.Aashima |
| Sprint-4 | Dashboard | USN-4 | Design the Modules and test the app. | 2 | Medium | R.Jaffarnisha<br>A.Megavadhana<br>K.Maheswari |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| | | | | | | M.Rajapraba<br>M.Aashima |
| Sprint-5 | Web UI | USN-5 | To make the user to interact with software | 2 | High | R.Jaffarnisha<br>A.Megavadhana<br>K.Maheswari<br>M.Rajapraba<br>M.Aashima |

## 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 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | 19 Nov 2022 |
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## 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$