

Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Habibur Rahman
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Prathap
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Logeshwaran
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Mohamed Irshath
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Habibur Rahman
Sprint-2	Dashboard	USN-6	As a user, I must watch my metrics displayed right in the front page of the application	2	High	Mohamed Irshath
Sprint-2		USN-8	As a customer care executive, I must provide with the text box to get the user information using unique no. for every individual user	1	Medium	Prathap
Sprint-2		USN-10	As an admin, I must be provided with stats of the instance running behind	2	High	Logeshwaran

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Hardware	USN-11	Configuring Sensors	2	High	Habibur Rahman, Prathap
Sprint-3		USN-12	Connecting Hardware to cloud	2	High	Mohamed Irshath, Logeshwaran
Sprint-4	MIT APP and Web UI	USN-13	Making a Final APP and WebUI	1	Medium	Mohamed Irshath, Habibur Rahman
Sprint-4	Testing and Bug Fixing	USN-14	Testing performance and fixing bugs	1	Low	Prathap, Logeshwaran

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		27 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		17 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)

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

Burndown Chart:

A burn down 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, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>