

Project Planning Phase

Date	22 October 2022
Team ID	PNT2022TMID30034
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Maximum Marks	8 Marks

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

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	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M

Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
Sprint-1		USN-3	As a user, I can register for the application through Gmail	1	Medium	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
Sprint-1	Login	USN-4	As a user, I can register for the application through Gmail	2	High	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
Sprint-2		USN-5	If I forgot my password or username, I can reset it again through my email	1	Low	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
Sprint-2	Web	USN-6	Accessing node-red dashboard	2	High	1.Padmapriya.P 2.Deeksha kumari.S

						3. Menaka.N 4. Chandrakala.M
Sprint-2		USN-7	As a user, I can able view status of my field in web using the node-red link	1	High	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
Sprint-3	Application	USN-8	I can view status of my field by using app in which node-red dashboard is connected to it	1	High	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
Sprint-3	Hardware	USN-9	I Can see my results which I have made in application in the hardware which I have connected in my field.	1	High	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M

Sprint-4	Python Script	USN-10	I will write python script and connect it to my hardware	1	High	1.Padmapriya.P 2.Deeksha kumari.S 3. Menaka.N 4. Chandrakala.M
----------	---------------	--------	--	---	------	---

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

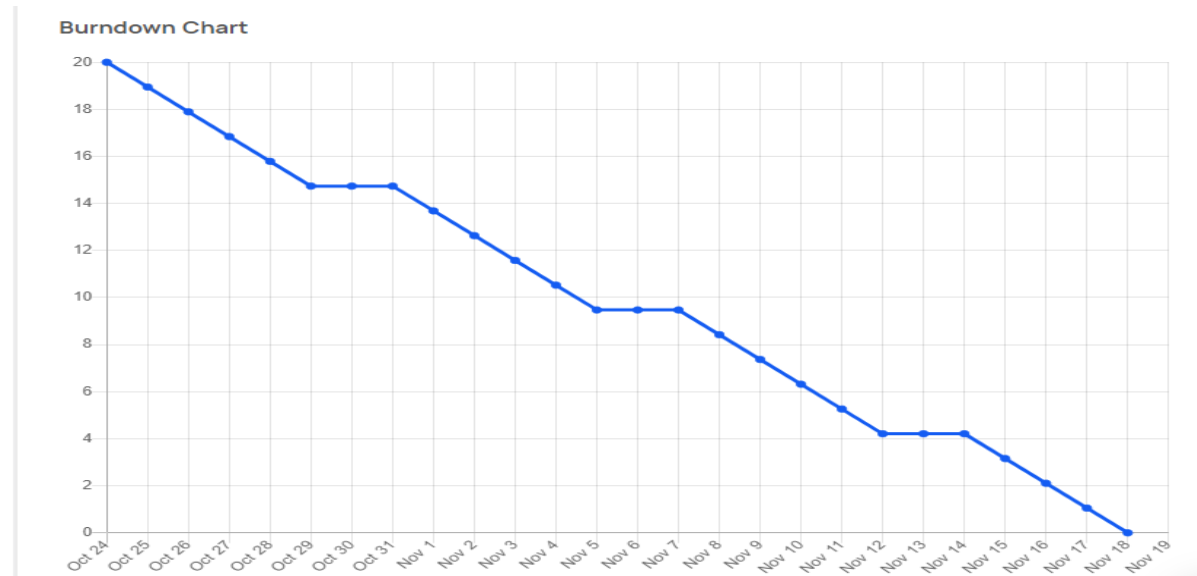
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 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)

Burndown Chart: (Workflow)



Reference:

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

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

<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>