

Project Planning Phase - Project Planning Template

Milestone and Activity list

Date	21 October 2022
Team ID	PNT2022TMID32243
Project Name	Project – Smart Farmer- IoT based Smart Farming Application
Marks	8 Marks

MILESTONE AND ACTIVITY LIST (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Simulation creation	USN-1	Connect Sensors and Arduino with python code	2	High	Agalya
Sprint-1		USN-2	Connect the sensor with the python code	2	Medium	Boopalan
Sprint-1		USN-3	Arduino connection with the python code	1	Medium	Abinaya
Sprint-2	Software	USN-4	Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red	1	High	Poojitha
Sprint-2		USN-5	Creating device in Watson iot	2	High	Agalya

Sprint-2		USN-6	Create Node red service	1	High	Boopalan
Sprint-2		USN-7	workflow for IoT scenarios using Node-Red	2	High	Abinaya
Sprint-3	MIT App Inventor	USN-8	Develop an application for the Smart farmer project using MIT App Inventor	2	High	Poojitha
Sprint-3		USN-9	Create MIT app inventor in smart farming	1	Low	Agalya
Sprint-3		USN-10	Create an application using MIT app inventor	1	High	Boopalan
Sprint-4	Dashboard	USN-11	Design the Modules	1	High	Abinaya
Sprint-4		USN-12	Test the app	1	High	Poojitha
Sprint-4	Web UI	USN-13	To make the user to interact with software.	2	High	Agalya

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) .

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

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.

