

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID53630
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	Revilla Jyosthna, Pannave K, Iyswarya S, Pritha R
Sprint-1	User confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	
Sprint-1	Simulation creation	USN-4	Connect hardware devices with esp8266	4	High	
Sprint-2	Dashboard	USN-5	Real time sensor values are sent to IBM Watson IoT platform and sent to Node-red	4	High	
Sprint-3	Software	USN-6	To develop a mobile application using MIT app	4	High	
Sprint-3	Software	USN-7	Connecting application with Node-Red and further application development	3	High	
Sprint-4	Testing	USN-8	Testing developed application and working model	2	High	

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	08 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	18-19 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)

Total Sprint Points=21

Total Sprint = 7

Average Velocity = $21/7 = 3$

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.

