

Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID12920
Project Name	Smart Farmer – IoT Enabled 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	Mobile/web user Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Sri Hari Sudhan K
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	10	Medium	Shobhana p
Sprint-2	Mobile/web user Login	USN-3	As a user, I can login to the application by entering the email and password	10	High	Sankruthi
Sprint-2		USN-4	As a user, I can login to the application by entering the phone number	10	Low	Mannoj Kumar
Sprint-3	Monitoring and Controlling	USN-5	As a user, I need a application which is smart enough to control and monitor the fields	10	High	Mannoj Kumar Sankruthi
Sprint-3		USN-6	As a user, I want to know about the temperature and humidity level in order to water the fields	5	High	Sankruthi
Sprint-3		USN-7	As a user, I want to control the field devices(motors)	5	High	Sri Hari Sudhan K
Sprint-4	Software	USN-8	As a admin, I need to authorize the data transferred by the end device to the IBM Cloud	10	High	Sri Hari Sudhan K Shobhana p
Sprint-4		USN-9	As a admin, I need an application (node red, IBM Watson) in order the simulate the values and I want to test the application	10	High	Sona. S, PrikshitSingh

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)

$$\text{Average Velocity} = \text{Sprint Duration} / \text{Velocity} = 20 / 6 = 3.33$$