

Project Planning Phase

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

Date	23 October 2022
Team ID	PNT2022TMID44390
Project Name	Project – Smart Farmer- 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	IBM Cloud Account	USN-1	IBM Cloud Account creation	5	High	Charulatha H
	MIT App Inventor Node-RED	USN-2	MIT App Account creation. Node-RED Account creation	5	High	Deepika R
	Python IDE	USN-3	Software installation	5	High	Ramya K G
	Fast to Sms	USN-4	Fast2sms account creation	5	High	Pavithra Devi V R
Sprint-2	IBM Watson Platform	USN-5	Create IBM Watson platform and a device	10	High	Charulatha H, Ramya K G
	Node-RED Service	USN-6	Create Node-RED Service	10	High	Pavithra Devi V R, Deepika R

Sprint-3	Develop The Python Code	USN-7	Build a Web Application using Node-RED, Configure the Node-RED and create API for communicating with a mobile application.	20	High	Charulatha H, Deepika R, Pavithra Devi V R, Ramya K G
Sprint-4	Develop A Mobile Application	USN-8	A mobile application using MIT App inventor which displays all the sensor parameters	20	High	Charulatha H, Deepika R, Pavithra Devi V R, Ramya K G

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:

We have a 24-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)

$$AV = \text{Sprint Duration} / \text{Velocity} = 24 / 20 = 1.2$$

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.

