Project Planning Phase

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

Date	25 October 2022
Team ID	PNT2022TMID32791
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 (Mobile user)	USN-1	I can register for the application by entering my Username, password, and confirming my password as a user.	1	Low	M.SANTOSH KUMAR, M.MANOJ KUMAR
Sprint-1	Login (Mobile user)	USN-2	I can log into the application by entering User name & password as a user.	3	High	A.B. MOHAMED RIYAS, S. YOGESH
Sprint-2	Dashboard (Mobile user)	USN-3	I could access the dashboard by entering correct password.	13	Medium	M.SANTOSH KUMAR
Sprint-3	Alert message (Mobile user)	USN-4	I could receive alert message regarding the field parameters as a user.	13	High	M.SANTOSH KUMAR, M.MANOJ KUMAR
Sprint-4	Data Storage (Mobile user)	USN-5	I will be able to store parameter values as a user.	2	High	M.SANTOSH KUMAR, M.MANOJ KUMAR

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Decision (Mobile user)	USN-6	I can operate motor remotely using the mobile application as a user.	8	High	A.B. MOHAMED RIYAS, S. YOGESH
Sprint-1	Login (web user)	USN-7	I can log in to the application as a user.	13	High	M.SANTOSH KUMAR, M.MANOJ KUMAR
Sprint-1	Dashboard (web user)	USN-8	I could access the dashboard as a user.	3	Medium	A.B. MOHAMED RIYAS, S. YOGESH
Sprint-3	Alert message (web user)	USN-9	I receive alert message regarding the field parameters as a user.	5	High	M.SANTOSH KUMAR, M.MANOJ KUMAR
Sprint-4	Data Storage (web user)	USN-10	I will be able to store parameter values as a user.	2	High	M.SANTOSH KUMAR, M.MANOJ KUMAR
Sprint-4	Decision (web user)	USN-11	I can operate motor remotely using the mobile application as a user.	8	High	A.B. MOHAMED RIYAS, S. YOGESH

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

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

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

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

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