Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18October 2022
Team ID	PNT2022TMID11377
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.	4	High	M.G.Shalini Devi
Sprint-1	Registration	USN-2	As a user, I will receive confirmation message once I have registered for the application.	3	High	V.Tharsini
Sprint-1	Login page	USN-3	As a user enter the username and password which is already existing.	3	Medium	V.Tharsini
Sprint-1	Forecasting the current weather	USN-4	As a user, we can monitor the weather fundamentals like (humidity, wind speed, wind direction and rainfall)	12	High	V.Tharsini
Sprint-2	Sensing moisture content of the soil	USN-5	As a user, we can know about moisture content, monitor the automatic plant watering and control the water flow.	10	High	M.G.Shalini Devi
Sprint-3	Detecting the motion in certain range	USN-6	Fencing system are helpful in providing security against unauthorized access of human and animal.	12	High	N.R.D.Vaishnavi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Collecting database of crops	USN-7	Here famer needs to update about expiry date of fertilizer and seeds.	9	High	K.P.Sushmita

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	8	6 Days	24 Oct 2022	29 Oct 2022	22	29 Oct 2022
Sprint-2	1	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	2	6 Days	07 Nov 2022	12 Nov 2022	12	12 Nov 2022
Sprint-4	1	6 Days	14 Nov 2022	19 Nov 2022	9	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)

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

$$Av = \frac{\text{Sprint duration}}{\text{Velocity}}$$

= 6/10

=3/5

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