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

Date	31 October 2022
Team ID	PNT2022TMID00213
Project Name	Estimate the crop yield using data analytics
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	Vinisha, Boomika
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Roopa, Shrinithi
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Boomika, Shrinithi
Sprint-2		USN-4	As a user, I can register for the application through Gmail	2	Medium	Roopa, Vinisha
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Vinisha, Shrinithi
Sprint-1	Dashboard	USN-6	As a user, I can access the services and information provided in the dashboard	2	High	Boomika, Vinisha
Sprint-1	login	USN-7	As a user, I can log into the web application and access the dashboard	2	High	Vinisha, Boomika
Sprint-4	Helpdesk	USN-8	As a user, I can get the guidance from the customer care	1	High	Boomika, Roopa, Shrinithi
Sprint-3	Management	USN-9	As an administrator, I can give customer support and communicate with customers related to their queries	2	High	Vinisha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3		USN-10	As an administrator, I can take business driven decisions to improve the growth of company	2	Medium	Boomika, Roopa
Sprint-3		USN-11	As an administrator, I can go through all the items and will try to estimate the session	2	medium	Shrinithi, Boomika
Sprint-4		USN-12	As an administrator, I can maintain third-party services	1	Low	Roopa

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	8	29 Oct 2022
Sprint-2	4	6 Days	31 Oct 2022	05 Nov 2022	4	05 Nov 2022
Sprint-3	6	6 Days	07 Nov 2022	12 Nov 2022	6	12 Nov 2022
Sprint-4	2	6 Days	14 Nov 2022	19 Nov 2022	2	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 (Sprint 1) = 8/6 = 1

AV (Sprint 2) = 4/6 = 1

AV (Sprint 3) = 6/6 = 1

AV (Sprint 4) = 2/6 = 1

AV (Total) = 20/24 = 1 (appx., 1 sprint to be completed per day)

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.