Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2026TMIDS79179
Project Name	ShopSmart – A Full-Stack Digital Grocery Store Web Application
Maximum Marks	5 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	team
Sprint-1	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	team
Sprint-2	Product Listing	USN-3	As a user, I can register for the application through Facebook	2	Low	team
Sprint-1	Category Filter	USN-4	As a user, I can register for the application through Gmail	2	Medium	team
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	team
Sprint-2	Dashboard	USN-6	As a user, I can view order history.	2	low	team
Sprint-2	Product CRUD	USN-7	As a user, I can submit ratings & comments.	1	high	team
Sprint-2	Category Management	USN-8	As a user, I can submit ratings & comments.	1	medium	team

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	01 Feb 2025	07 Feb 2025	20	07 Feb 2025
Sprint-2	20	6 Days	07 Feb 2025	14 Feb 2025	15	14 Feb 2025
Sprint-3	20	6 Days	14 Feb 2025	21feb 2025	15	21 Feb 2025
Sprint-4	20	6 Days	21Feb 2025	28 Feb 2025	15	28 Feb 2025

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)

Sprint Duration = 7 Days
Average Story Points per Sprint = 15

Velocity (Story Points per Day) = Total Story Points / Sprint Duration

Velocity = 15 / 7 = **2.14 Story Points per Day (Approx.)**

This indicates that the team completes approximately 2 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