

## Project Planning Phase

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

Date	15 February 2025
Team ID	
Project Name	
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	User Registration	USN-1	As a student/teacher, I can register by entering personal details to access the system	2	High	Dev Team
Sprint-1	User Verification	USN-2	As a user, I receive email verification after registration	1	High	Dev Team
Sprint-1	Login	USN-3	As a user, I can log in securely using my credentials	1	High	Dev Team
Sprint-2	Admission Management	USN-4	As an admin, I can review and approve admission applications	3	High	Dev Team
Sprint-2	Student Data Management	USN-5	As a teacher, I can view and manage student records	2	High	Dev Team
Sprint-3	Progress Tracking Dashboard	USN-6	As a user, I can view academic progress and reports on a dashboard	3	Medium	Dev 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	2 Days	28 Jan	29 Jan	20	29 Jan
Sprint-2	20	2 Days	30 Jan	31 Jan	18	31 Jan
Sprint-3	20	2 Days	01 Feb	02 Feb	20	02 Feb
Sprint-4	20	3 Days	03 Feb	05 Feb	19	05 Feb

**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)

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

**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>