

## Project Planning Phase

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

Date	12 April 2025
Team ID	SWTID1743607143
Project Name	Book Ease
Maximum Marks	5 Marks

#### Product Backlog, Sprint Schedule, and Estimation (2 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 & Login	BE-US1	As a user, I can register and login using email & password	8	High	Merlin
Sprint-1	Book Listing	BE-US2	As a seller, I can upload book details and list it for sale	10	High	Jithin
Sprint-2	Cart Functionality	BE-US3	As a user, I can add and remove books from my cart	8	Medium	Samridhi
Sprint-2	Wishlist Feature	BE-US4	As a user, I can wishlist books to buy later	5	Medium	Jithin
Sprint-3	Buy & Sell Functionality	BE-US5	As a user, I can purchase listed books or post books for sale	15	High	Kirtan
Sprint-3	Order Management	BE-US6	As a user, I can view my order history and current status	10	Medium	Merlin

Sprint-4	Search & Filter	BE-US7	As a user, I can search books by name, author, or genre	8	Medium	Samridhi
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Project Tracker, Velocity & Burndown Chart: (2 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	1 Days	4 April 2025	5 April 2025	12	5 April 2025
Sprint-2	20	2 Days	5 April 2025	7 April 2025	20	7 April 2025
Sprint-3	40	2 Days	7 April 2025	9 April 2025	8	9 Aril 2025
Sprint-4	20	1 Days	8 April 2025	10 April 2025	10	10 April 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	Sprint Duration	Velocity	Average Velocity = Sprint duration/ velocity
Sprint 1	5 days	20	4 story points/ day
Sprint 2	5 days	20	4 story points/ day

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

Sprint 3	8 days	40	5 story points / day
Sprint 4	6 days	20	3.3 story points/day

### Burndown Chart:

A burndown 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.