

## Project Planning Phase

Date	06 April 2025
Team ID	SWTID1742930170
Project Name	iMovies: Movie Ticket Booking System

### Product Backlog, Sprint Schedule, and Estimation

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 using email, password, and confirm password.	2	High	Sanskriti Tyagi
Sprint-1	Registration	USN-2	As a user, I receive confirmation email after registration.	1	High	Khushi Thakur
Sprint-1	Registration	USN-3	As a user, I am notified if I enter mismatching passwords or invalid email formats during registration.	1	High	Eishani, Anushka
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Anushka Singh
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Eishani Bhattacharya
Sprint-2	Login	USN-6	As a user, I can recover my password via email verification.	2	Medium	Khushi Thakur
Sprint-2	Movie Listings	USN-7	As a user, I can view currently available movies with posters and descriptions.	2	High	Sanskriti Tyagi
Sprint-2	Show Timings	USN-8	As a user, I can view show timings of selected movies.	2	High	Anushka Singh
Sprint-3	Seat Selection	USN-9	As a user, I can view and select seats from visual layout	3	High	Eishani Bhattacharya
Sprint-3	Ticket Booking	USN-10	As a user, I can confirm my booking after selecting the show and seats.	2	High	Sanskriti Tyagi
Sprint-3	Payment Integration	USN-11	As a user, I can pay using debit card, UPI, etc	3	High	Khushi Thakur

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Booking History	USN-12	As a user, I can view my past bookings and status.	2	Medium	Anushka Singh
Sprint-4	Cancellation	USN-13	As a user, I can cancel my ticket before show time.	2	Medium	Eishani Bhattacharya
Sprint-4	Admin Management	USN-14	As an admin, I can add/remove movies and manage users.	3	Medium	Sanskriti, Khushi

#### Project Tracker, Velocity & Burndown Chart:

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	6	6 Days	10 Mar 2025	15 Mar 2025	7	15 Mar 2025
Sprint-2	6	6 Days	17 Mar 2025	22 Mar 2025	6	22 Mar 2025
Sprint-3	8	6 Days	24 Mar 2025	29 Mar 2025	8	29 Mar 2025
Sprint-4	7	6 Days	31 Mar 2025	5 April 2025	7	5 April 2025

**Velocity:** We have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Then, the team's average velocity (AV) per iteration unit (story points per day) is:

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

$$\begin{aligned}\text{Velocity} &= \text{Total Story Points Completed} / \text{Number of Sprints} \\ &= (7 + 6 + 8 + 7) / 4 \\ &= 28 / 4 = 7 \text{ story points per sprint}\end{aligned}$$

$$\begin{aligned}\text{Average Story Points Per Day} &= 7 \div 6 \\ &= \sim 1.17 \text{ story points/day}\end{aligned}$$

(Each sprint = 6 days)

**Burndown Chart:** In the context of this project, progress is tracked using story points, and work is completed across multiple sprints.

Burndown Chart

