

Project Planning Phase

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

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	Creating Login page Creating Registration page	10	High	E.Abirami,P.Narmatha
Sprint-1	Database Connectivity	USN-2	To Store details of the customer Connecting UI with Database	10	Medium	S.Prabhavathi, U.Vimala
Sprint-2	News Tracker UI	USN-3	Building UI News Tracker Application	10	High	S.Manju, P.Narmatha
Sprint-2	API	USN-4	Connecting UI with News API, Google News API	10	High	E.Abirami
Sprint-3	SendGrid Integration	USN-5	SendGrid Integration With Python Code	10	Low	P.Narmatha
Sprint-3	News Reader (Voice)	USN-6	Building Voice Assistant to read the news	10	Medium	S.Prabhavathi
Sprint-4	Containerization	USN-7	Containerizing the app	10	High	S.Manju, U.Vimala
Sprint -4	Upload image and deployment	USN-8	Upload Docker image to the IBM Registry and deploy it in the Kubernetes Cluster	10	High	E.Abirami, s.Manju

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	24 Oct 2022	30 Oct 2022	20	24 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	31 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	10 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	15 Nov 2022	20	15 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)

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

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>

