

Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2025TMID32512
Project Name	Classifying fabric patterns using deep learning
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 developer, I want to collect a diverse fabric dataset so that the model has enough data to learn from.	2	High	
Sprint-1		USN-2	As a developer, I want to clean and preprocess the dataset (handle missing values and label encoding) to prepare it for training.	1	High	
Sprint-2		USN-3	As a developer, I want to split the dataset into training and test sets for model validation.	2	Low	
Sprint-1		USN-4	As a developer, I want to build and train a CNN-based model to classify fabric patterns accurately.	2	Medium	
Sprint-1	Login	USN-5	As a developer, I want to deploy the model using Flask so that users can interact with the classifier in real-time.	1	High	
	Dashboard					

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	8	6 Days	20 May 2025	24 May 2025	20	24 May 2025
Sprint-2	16	6 Days	27 May 2025	31 May 2025	16	31 May 2025
Sprint-3	20	6 Days	03 June 2025	07 June 2025	–	–
Sprint-4	20	6 Days	14 June 2025	14 June 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)

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

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>

