

## Project Planning Phase

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

Date	1 July 2025
Team ID	LTVIP2025TMID42218
Project Name	Pattern Sense: Classifying Fabric Patterns using Deep Learning
Maximum Marks	5 Marks

### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	System shall allow users to upload single or multiple fabric images.	USN-1	Gather & preprocess fabric image dataset	2	High	Roshan, Darbar, Umar
Sprint-1	System shall classify images into predefined fabric pattern types (e.g., floral, stripe).	USN-2	Define pattern categories	2	Medium	Roshan Umar, Khalid
Sprint-2	System shall return classification results with a confidence score.	USN-3	Perform data augmentation.	2	High	Roshan, Darbar, Umar
Sprint-3	System shall provide a user interface to view and manage results.	USN-4	Build baseline CNN model	2	Low	Umar, Darbar Khalid

### 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	40	12 Days				29 Oct 2022
Sprint-2	20	6 Days				

Sprint-3	20	6 Days				
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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>