**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID41423 |
| Project Name | Pattern Sense: 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 | Data Collection | USN-1 | As a user, I can upload fabric pattern images to the system for classification. | 2 | High | Khateeb Nazeer Abdul Azeem |
| Sprint-1 | Data Loading | USN-2 | As a system, I can load and structure uploaded images into training format. | 1 | High | Budigi Narasimhulu |
| Sprint-2 | Data Preprocessing | USN-3 | As a system, I can normalize and resize images automatically. | 2 | Medium | Khateeb Nazeer Abdul Azeem |
| Sprint-2 | Label Encoding | USN-4 | As a system, I can convert pattern labels into numerical format for model input. | 2 | Low | J Chandureddy |
| Sprint-3 | Model Building | USN-5 | As a system, I can classify fabric patterns using a pretrained CNN model. | 5 | High | J Chandureddy |
| Sprint-3 | |  | | --- | |  |  |  | | --- | | Model Evaluation | | USN-6 | As a developer, I can test the model accuracy on validation data. | 3 | Medium | Budigi Narasimhulu |
| Sprint-4 | Deployment | USN-7 | As a user, I can interact with a simple web interface to upload an image for results. | 3 | Medium | Komiri Venu |
| Sprint-4 | Flask Integration & Logging | USN-8 | As a developer, I can deploy the model via Flask and log the predictions. | 2 | Low | Khateeb Nazeer Abdul Azeem |

**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 | 5 | 5 Days | 4 June 2025 | 9 June 2025 | 3 | 10 June 2025 |
| Sprint-2 | 5 | 5 Days | 10 June 2025 | 15 June 2025 | 4 | 15 June 2025 |
| Sprint-3 | 5 | 5 Days | 16 June2025 | 21 June 2025 | 8 | 21 June 2025 |
| Sprint-4 | 5 | 5 Days | 22 June 2025 | 27 June2025 | 5 | 27 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)



**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). 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.visual-paradigm.com/scrum/scrum-burndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](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/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

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[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)