

## Project Planning Phase

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

Date	28 June 2025
Team ID	LTVIP2025TMID41808
Project Name	Grainpalette - a deep learning odyssey in rice type classification through transfer 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 developer, I can download and organize the rice grain dataset from Kaggle	2	High	Sagarapu.Anitha
Sprint-1	Preprocessing	USN-2	As a developer, I can resize and normalize images to prepare for training	2	High	Srigiri Sree Pallavi
Sprint-2	Model Building	USN-3	As a user, I can train a transfer learning model on the rice dataset	3	High	Vedurapaka Veera Venkata Manikanta Karthik Ram
Sprint-2	Evaluation	USN-4	As a user, I can evaluate the model and get accuracy metrics	2	Medium	Surada Ganesh
Sprint-3	UI / Interface	USN-5	As a user, I can upload an image and receive predicted rice type	3	High	Sagarapu Anitha
Sprint-4	Report Generation	USN-6	As a user, I can generate a classification report for input images	2	Medium	Vedurapaka Veera Venkata Manikanta Karthik Ram

**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	10	6 Days	24 Jun 2025	26 Jun 2025	10	26 Jun 2025
Sprint-2	10	6 Days	24 Jun 2025	26 Jun 2025	10	26 Jun 2025
Sprint-3	10	6 Days	24 Jun 2025	26 Jun 2025	8	26 Jun 2025
Sprint-4	10	6 Days	24 Jun 2025	26 Jun 2025	7	26 Jun 2025

**Velocity:**

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

### **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>