

## Project Planning Phase

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

Date	2 July 2025
Team ID	LTVIP2025TMID36817
Project Name	Enchanted wings: marvels of butterfly species
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	Image data collection	USN-1	As a user, I want to collect and label different Butterfly images for training the model.	3	High	1. J Sathish 2. Goutham Kuruva 3. Pravallika 4. Juned
Sprint-1	Data preprocessing	USN-2	As a developer, I want to preprocess the rice images (resize, normalization) to improve model accuracy.	2	High	1. J Sathish 2. Goutham Kuruva 3. Pravallika 4. Juned

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-2	Model traning	USN-3	As a data scientist, I want to apply transfer learning on a pre-trained CNN model to classify rice types.	5	high	1. J Sathish 2. Goutham Kuruva 3. Pravallika 4. Juned
Sprint-2	Model Evaluation	USN-4	As a developer, I want to evaluate the model using accuracy, confusion matrix, and classification report.	2	medium	1. J Sathish 2. Goutham Kuruva 3. Pravallika 4. Juned
Sprint-3	Ui development	USN-5	As a user, I want to upload a butterfly image through a simple web or mobile app and get classification results.	3	medium	1. J Sathish 2. Goutham Kuruva 3. Pravallika 4. Juned
Sprint-3	Deployment	USN-6	As a developer, I want to deploy the trained model and integrate it with the frontend for realtime use	4	low	1. J Sathish 2. Goutham Kuruva

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						3. Pravallika 4. Juned

#### 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	26 June 2025	30 June 2025	20	30 June 2025
Sprint-2	20	6 Days	28 June 2025	30 June 2025	20	30 June 2025
Sprint-3	20	6 Days	30 June 2025	3 July 2025	20	3 July 2025
Sprint-4	20	6 Days	2 July 2025	5 July 2025	20	5 July 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)

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

#### **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>