# **Project Planning Phase**

## **Project Planning Template(ProductBacklog,SprintPlanning, Stories, Story points)**

Date	26 June 2025
Team ID	LTVIP2025TMID43910
Project Name	GrainPalette A DeepLearning Odyssey In Rice Type
	Classification Through Transfer Learning
Maximum Marks	5 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story/Task (Smaller Stories - Tasks)	Story Points (Estimated)	Priorit y	Team Members	Category (Aligned to Planning Logic)
Sprint 1	Sprint 1: Data Collection & Preprocessing (5 Days)	USN-Data-1	Data Collection: Gather initial rice grain image dataset for training & testing.	2	High	Guravaiah, Kusuma, Tejaswi , Harika	Data Collection
Sprint 1	Sprint 1: Data Collection & Preprocessing (5 Days)	USN-Data-2	Loading Data: Implement code to load image data efficiently into the development environment. Handling Missing Values:	1	High	Guravaiah, Kusuma, Tejaswi , Harika	Data Collection
Sprint 1	Sprint 1: Data Collection & Preprocessing (5 Days)	USN-Prep-1	Implement data cleaning to handle any missing or corrupted image data. Handling Categorical	3	High	Guravaiah, Kusuma, Tejaswi , Harika	Data Preprocessing
Sprint 1	Sprint 1: Data Collection & Preprocessing (5 Days)	USN-Prep-2	Values: Prepare rice type labels for model training	2	High	Guravaiah, Kusuma, Tejaswi , Harika	Data Preprocessing

			(encoding categorical data).					
Sprint 1	Sprint 1: Data Collection & Preprocessing (5 Days)	USN-Core-1	Basic Image Upload & Display (UI): Implement basic UI for users to upload a rice grain image.	2	High	Guravaiah, Kusuma, Tejaswi , Harika	UI - Core Functionality	
Sprint 1	Sprint 1: Data Collection & Preprocessing (5 Days)	USN-Core-2	Basic "Submit" Button & Loading Indicator (UI): Add button to trigger processing & basic loading feedback.	1	High	Guravaiah, Kusuma, Tejaswi , Harika	UI - Core Functionality	
Sprint 2	Sprint 2: Model Building & Deployment (5 Days)	USN-Model-	Model Building: Train the MobileNetv4 Transfer Learning model for rice type classification.			Guravaiah, Kusuma, Tejaswi , Harika		
Sprint 2	Sprint 2: Model Building & Deployment (5 Days)	USN-Model- 2	Testing Model: Evaluate the trained model's performance on a test dataset; refine if needed. Working HTML Pages	5	High	Guravaiah, Kusuma, Tejaswi , Harika	Model Building	
Sprint 2	Sprint 2: Model Building & Deployment (5 Days)	USN-Deploy-	(Basic Result Display): Create basic HTML pages to display rice type prediction results.	3	High	Guravaiah, Kusuma, Tejaswi , Harika	Deployment	
Sprint 2	Sprint 2: Model Building & Deployment (5 Days)	USN-Deploy- 2	Flask Deployment (Basic):  Deploy a basic Flask application to serve the AI model and UI (locally for testing).	5	High	Guravaiah, Kusuma, Tejaswi , Harika	Deployment	

Sprint 2	Sprint 2: Model Building & Deployment (5 Days)	USN-Core-3	Basic Result Display (UI): Implement basic UI to show predicted rice type and confidence level.	2	High	Guravaiah, Kusuma, Tejaswi , Harika	UI - Core Functionality
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### **Project Tracker, Velocity & Burndown Chart: (4 Marks)**

Sprint	Total Story Points (Planned)	Duration	Sprint Start Date	Sprint End Date	Story Points Completed (Actual) (as on Planned End Date)	Release Date
Sprint 1	11	5 Days	4 March 2025	8 March 2025	11	13 March 2025
Sprint 2	18	5 Davs	9 March 2025	13 March 2025	18	2020

#### 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:**

Aburn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such asScrum. 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/aqile/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