5.PROJECT PLANNING & SCHEDULING

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

5.1 Project Planning

Date	30 june 2025
Team ID	LTVIP2025TMID34162
Project Name	GrainPalette – A Deep Learning Odyssey in Rice Type Classification Through Transfer Learning
Maximum Marks	5 Marks

Product Backlog & Sprint Schedule (4 Marks)

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 collect rice image data from Kaggle to train the model.	2	High	Narendra Mukhesh
Sprint-1	Data Preprocessing	USN-2	As a developer, I can clean, resize, and augment the rice images to prepare for model training.	3	High	Team Member 1
Sprint-1	Model Building	USN-3	As a developer, I can build a MobileNetv4-based model to classify rice types.	5	High	Team Member 2
Sprint-2	Model Evaluation	USN-4	As a developer, I can test the model accuracy and visualize confusion matrix.	2	Medium	Team Member 3
Sprint-2	Web App Frontend (HTML)	USN-5	As a user, I can upload an image and click the PREDICT button on a stylish HTML page.	3	High	Narendra Mukhesh
Sprint-2	Flask Backend Integration	USN-6	As a user, I can get the predicted rice class from	3	High	Team Member 1

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			a trained model using Flask.			
Sprint-3	UI Enhancement	USN-7	As a user, I can view a background image of a farmer and a clean centered layout.	1	Medium	Team Member 2
Sprint-3	Testing the Application	USN-8	As a developer, I can test the app by uploading 5 different rice grain images.	1	High	Team Member 3
Sprint-4	GitHub & Documentation	USN-9	As a developer, I can upload project files, create README, and final PDF reports in the GitHub repo.	2	High	Narendra Mukhesh

📊 **Project Tracker, Velocity & Burndown Chart (4 Marks)**

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed	Sprint Release Date
Sprint-1	10	5 Days	01 jun 2025	05 jun 2025	10	05 jun 2025
Sprint-2	8	5 Days	06 jun 2025	10 jun 2025	8	10 jun 2025
Sprint-3	2	2 Days	11 jun 2025	12 jun 2025	2	12 jun 2025
Sprint-4	2	2 Days	13 jun 2025	14 jun 2025	2	14 jun 2025

📈 **Velocity Calculation**

- **Total Story Points Completed: 10 + 8 + 2 + 2 = 22**
- **Total Number of Sprints: 4**

- **Average Velocity = 22 / 4 = 5.5 Story Points per Sprint**

🔥 **Burndown Chart (Create in Excel or Chart Tool)**

1. **Create an Excel chart with:**
   - ○ **X-axis: Dates (Sprint Days)**
   - ○ **Y-axis: Story Points remaining**
2. **Plot an ideal burndown line (linear decrease)**
3. **Plot an actual burndown line based on story points completed each day.**

Use this reference:

🔗 **[Visual Paradigm Burndown Chart Guide](#)**

🔗 **References:**

- **https://www.atlassian.com/agile/tutorials/sprints**
- **https://www.atlassian.com/agile/project-management/estimation**
- **https://www.visual-paradigm.com/scrum/scrum-burndown-chart/**