Project Planning Phase

Date: 28 June 2025

Team ID: LTVIP2025TMID40163

Project Name: grainpalette - a deep learning odyssey in rice type classification

Maximum Marks: 4 Marks

### 📋 ****GrainPalette – Product Backlog, Sprint Schedule, and Estimation****

| **S.No** | **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed** | **Sprint Release Date (Actual)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Sprint-1 | Data Collection | USN-1 | As a developer, I want to collect and organize rice grain image datasets. | 2 | High | 24 Jun 2025 | 27 Jun 2025 | 2 | 27 Jun 2025 |
| 2 | Sprint-1 | Data Preprocessing | USN-2 | As a developer, I want to preprocess and clean the dataset before model training. | 3 | High | 24 Jun 2025 | 27 Jun 2025 | 3 | 27 Jun 2025 |
| 3 | Sprint-2 | Model Building | USN-3 | As an ML engineer, I want to build a rice classifier model using transfer learning. | 5 | High | 28 Jun 2025 | 02 Jul 2025 | 5 | 02 Jul 2025 |
| 4 | Sprint-2 | Model Testing & Evaluation | USN-4 | As a developer, I want to evaluate model accuracy and tune it for better results. | 3 | Medium | 28 Jun 2025 | 02 Jul 2025 | 3 | 02 Jul 2025 |
| 5 | Sprint-3 | Frontend Development | USN-5 | As a user, I want an interactive web UI to upload images and see predictions. | 4 | High | 03 Jul 2025 | 06 Jul 2025 | - | - |
| 6 | Sprint-3 | Flask Integration | USN-6 | As a developer, I want to connect the backend model with the UI using Flask. | 3 | High | 03 Jul 2025 | 06 Jul 2025 | - | - |
| 7 | Sprint-4 | GitHub Deployment | USN-7 | As a contributor, I want to push the project to GitHub with proper documentation. | 2 | Medium | 07 Jul 2025 | 09 Jul 2025 | - | - |
| 8 | Sprint-4 | Final Demo + Report | USN-8 | As a student, I want to prepare the report and record a demo for submission. | 2 | High | 07 Jul 20 |  |  |  |