# Project Planning Phase

**Date**: 28 June 2025
**Team ID**: LTVIP2025TMID41507
**Project Name**: **Smart Sorting Web Application Maximum**
**Marks**: 5 Marks

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

| 2 Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Data Collection | US-1 | Collect and organize the image dataset | 2 | High | |
| Sprint-1 | Data Collection | US-2 | Load and inspect dataset before training | 1 | High | |
| Sprint-1 | Data Preprocessing | US-3 | handle missing values in the dataset | 3 | Medium | |
| Sprint-1 | Data Preprocessing | US-4 | convert categorical labels into usable form. | 2 | Medium | |
| Sprint-2 | Model Building | US-5 | build a CNN model to classify fruits/vegetables. | 5 | High | |
| Sprint-2 | Model Evaluation | US-6 | test model accuracy on unseen data. | 3 | High | |
| Sprint-2 | Deployment | US-7 | upload an image and see prediction result in UI | 3 | High | |
| Sprint-2 | Deployment | US-8 | deploy the model using Flask. | 5 | High | |

## 2. Project Tracker, Velocity & Burndown Chart (4 Marks)

Sprint Schedule:

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed | Sprint Release Date (Actual) |
|---|---|---|---|---|---|---|
| Sprint -1 | 8 | 5 Days | 18 June 2025 | 28 june 2025 | 8 | 28 June 2025 |
| Sprint -2 | 16 | 5 Days | 24 June 2025 | 24 June 2025 | 16 | 28 June 2025 |

Velocity:

Velocity = Total Story Points Completed / Number of Sprints

Velocity = (8 + 16) / 2 = 24 / 2 = 12 Story Points per Sprint

Average Velocity per Day = 12 / 5 = 2.4 Story Points per DayBurndown Chart – Sprint 1 (Example):

| Day | Story Points Remaining |
|---|---|
| Day 0 | 8 |
| Day 1 | 6 |
| Day 2 | 5 |
| Day 3 | 3 |
| Day 4 | 1 |
| Day 5 | 0 |

## References

- 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
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- https://www.atlassian.com/agile/tutorials/burndown-charts
- https://www.visual-paradigm.com/scrum/scrum-burndown-chart/