**Project Planning Phase**

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

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| --- | --- |
| Date | 22 June 2025 |
| Team ID | LTVIP2025TMID35377 |
| Project Name | Smart Sorting: identifying rotten fruits and vegetables using transfer learning |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation (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 system, I can collect image data from different fruit and vegetable types. | 2 | High | Team A |
| Sprint-1 | Data Collection | USN-2 | As a user, I can load the image data into the pipeline. | 1 | High | Team A |
| Sprint-1 | Data Preprocessing | USN-3 | As a system, I can handle missing values in image metadata. | 3 | Medium | Team B |
| Sprint-1 | Data Preprocessing | USN-4 | As a system, I can encode categorical labels for classification. | 2 | Medium | Team B |
| Sprint-2 | Model Building | USN-5 | As a system, I can build a model using MobileNetV2 transfer learning. | 5 | High | Team C |
| Sprint-2 | Model Evaluation | USN-6 | As a user, I can view accuracy of the trained model on test data. | 3 | High | Team C |
| Sprint-2 | Deployment | USN-7 | As a user, I can access a web interface built using HTML. | 3 | Medium | Team D |
| Sprint-2 | Deployment | USN-8 | As a user, I can interact with the prediction model through Flask backend. | 5 | High | Team D |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date | Story Points Completed |
| Sprint-1 | 8 | 5 Days | 17 June 2025 | 21 June 2025 | 8 |
| Sprint-2 | 16 | 5 Days | 22 June 2025 | 26 June 2025 | 16 |

Total Story Points Completed: 8 + 16 = 24

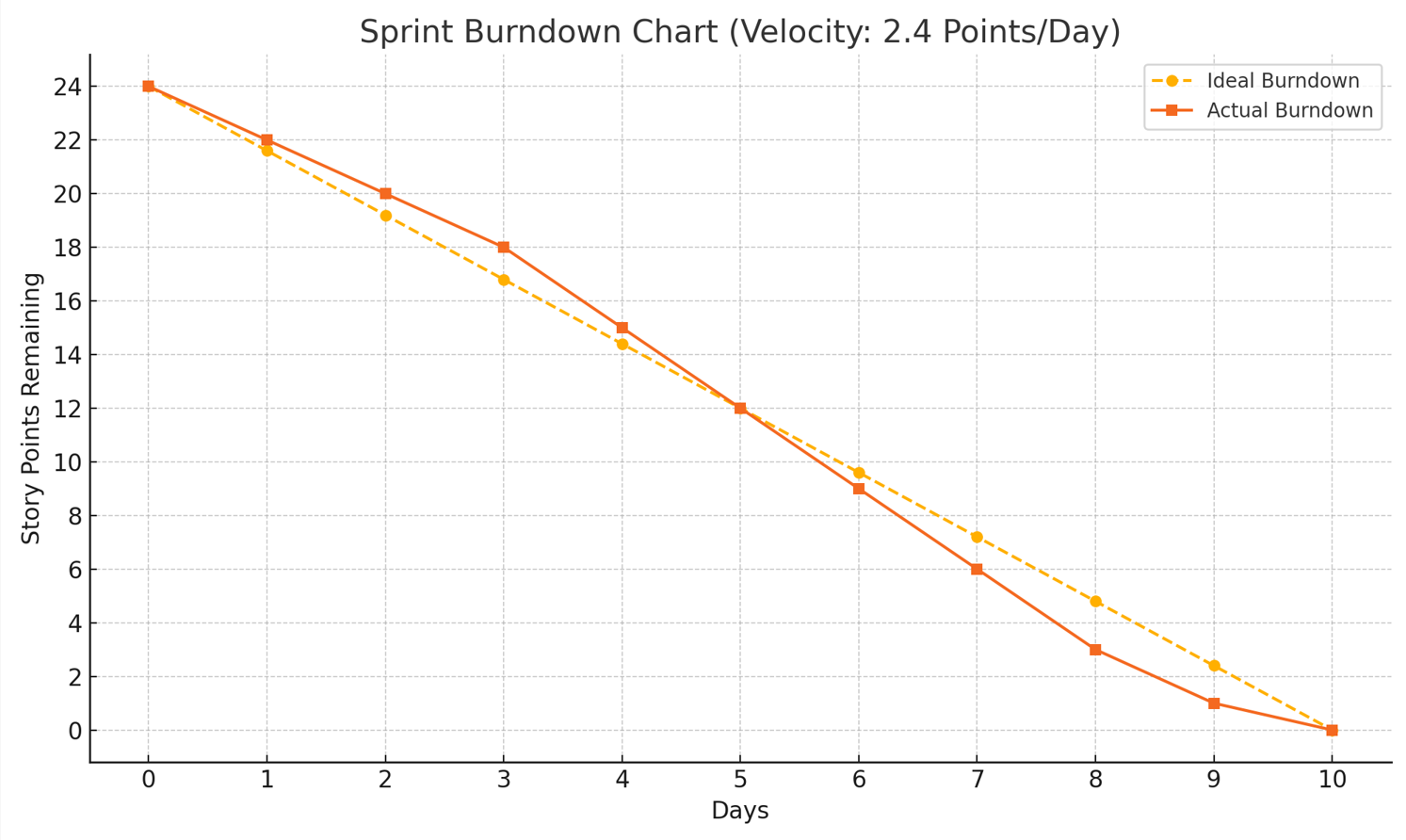
Number of Sprints Completed: 2

Velocity = Total Story Points / Number of

Sprints = 24 / 2 = 12 Story Points per Sprint

✅ Average Velocity (Story Points per Day) = 24 / (5+5) = 2.4 Points per Day

**Burndown chart:**

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