**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 29 June 2025 |
| Team ID | LTVIP2025TMID20850 |
| Project Name | Smart Sorting Transfer Learning for identifying rotten fruits and vegetables |
| Maximum Marks | 5 Marks |

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

Use the below template to create product backlog and sprint schedule

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Image Upload & Preprocessing | USN-1 | |  | | --- | |  |  |  | | --- | | As a user, I can upload a fruit/vegetable image to be analyzed by the model. | | 2 | High | Pujitha |
| Sprint-1 | |  | | --- | |  |  |  | | --- | | Image Upload & Preprocessing | | USN-2 | |  | | --- | |  |  |  | | --- | | As the system, I will resize and normalize the uploaded image before prediction | | 1 | High | Vasanth |
| Sprint-2 | |  | | --- | |  |  |  | | --- | | Prediction Logic (Model Integration |   ) | USN-3 | As a user, I want to get the freshness prediction and confidence score after submitting an image. | 3 | High | Konda Babu |
| Sprint-2 | Prediction Result Display | USN-4 | As a user, I can view the predicted label and image on the result page. | 2 | Medium | Durga Prasadh |
| Sprint-3 | |  | | --- | |  |  |  | | --- | | Web Interface (UI Pages) | | USN-5 | |  | | --- | |  |  |  | | --- | | As a user, I can navigate between Home, Predict, About, and Contact pages using the navbar. | | 2 | Medium | Pujitha |
| Sprint-3 | |  | | --- | |  |  |  | | --- | | UI Responsiveness | | USN-6 | |  | | --- | |  |  |  | | --- | | As a user, I can access the application from a mobile or tablet and see the layout adjust accordingly. | | 1 | Low | Konda Babu |
| Sprint-4 | |  | | --- | |  |  |  | | --- | | Deployment & Testing | | USN-7 | |  | | --- | |  |  |  | | --- | | As a developer, I want to deploy the app locally and verify that the model loads correctly with predictions | | 3 | High | Vasanth |
| Sprint-4 | Documentation | USN-8 | As a developer, I want to prepare a final project report and documentation for submission. | 2 | High | Durga Prasadh |

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

| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | 20 | 6 Days | 15 June 2025 | 19 June 2025 | 20 | 19 June 2025 |
| Sprint-2 | 18 | 6 Days | 20 June 2025 | 23 June 2025 | 18 | 23 June 2025 |
| Sprint-3 | 15 | 5 Days | 24 June 2025 | 26 June 2025 | 13 | 27 June 2025 |
| Sprint-4 | 12 | 5 Days | 27 June 2025 | 28 June 2025 | 12 | 28 June 2025 |

**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)



**Calculation**

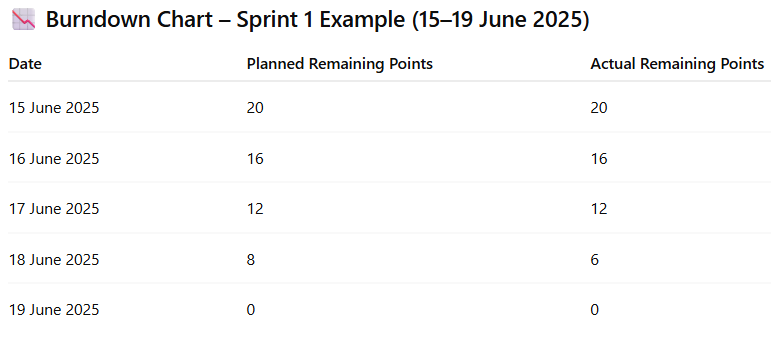
Total Story Points Completed = 20 + 18 + 13 + 12 = **63**

Total Sprints = 4

**Average Velocity** = 63 / 4 = 15.75 Story Points per Sprint

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

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