Project Planning Phase

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

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

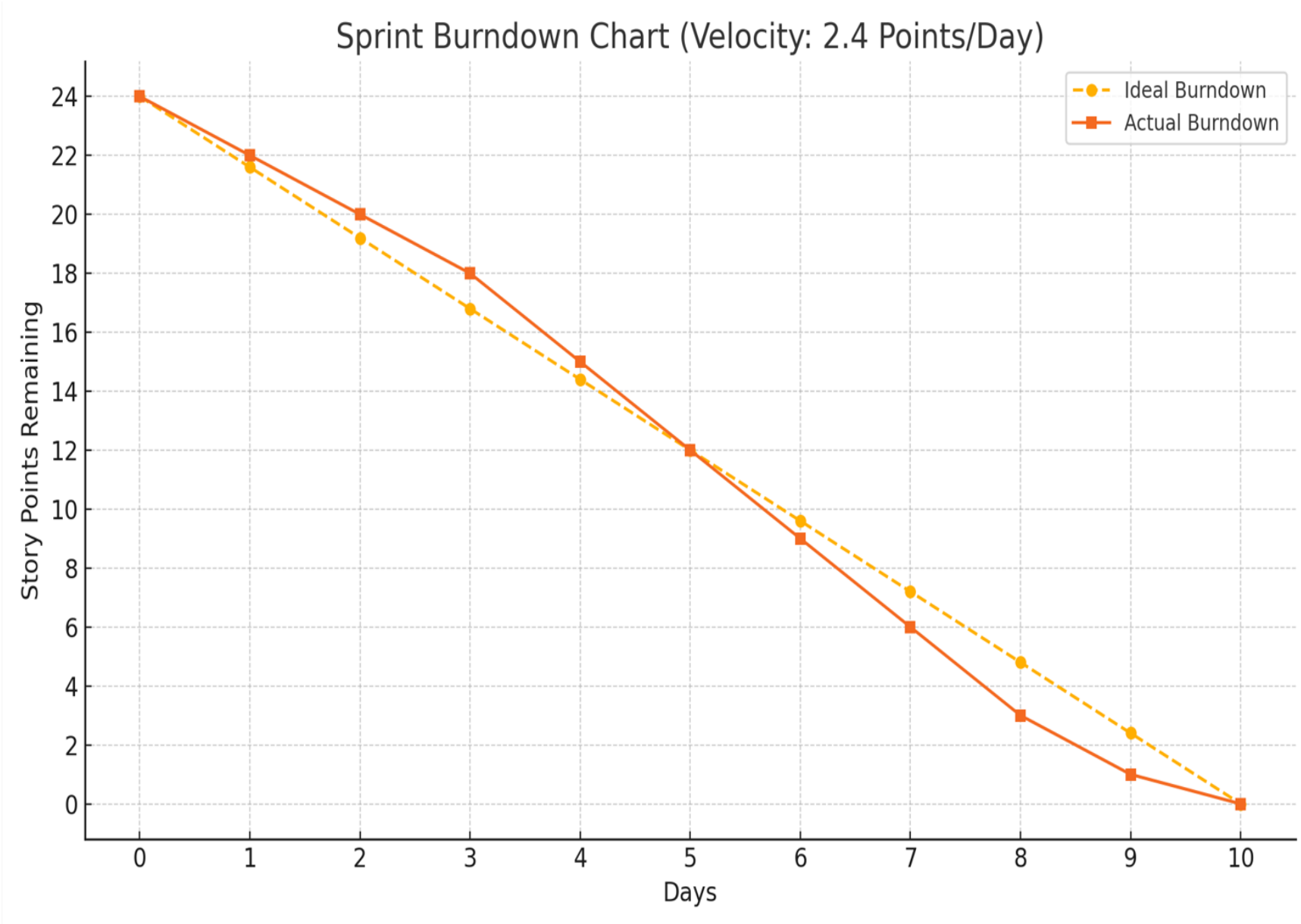
Number of Sprints Completed: 2

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:


Sprint Burndown Chart (Velocity: 2.4 Points/Day)
Ideal Burndown
Actual Burndown
Story Points Remaining
Days
0
2
4
6
8
10
12
14
16
18
20
22
24
0
1
2
3
4
5
6
7
8
9
10