Project Planning Phase

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

Date	16 June 2025
Team ID	LTVIP2025TMID34708
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
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
Sprint-1	Data Collection & Preprocessing	USN-1	As a developer, I want to collect poultry disease image and symptoms data from multiple datasets and sources.	3	High
Sprint-1	Data Collection & Preprocessing	USN-2	As a developer, I want to preprocess, clean, and augment the collected data to prepare it for transfer learning models.	5	High
Sprint-2	Model Development	USN-3	As a data scientist, I want to apply transfer learning to build a disease classification model for poultry images.	8	High
Sprint-2	Model Testing & Validation	USN-4	As a data scientist, I want to test and validate the model using a separate dataset to check accuracy and reliability.	4	Medium
Sprint-3	Mobile App Integration	USN-5	As a user, I want to upload poultry images and symptoms in the app to receive immediate disease predictions.	5	High
Sprint-3	API & Backend Deployment	USN-6	As a developer, I want to deploy the trained model and build APIs for the app to fetch predictions in real time.	6	High

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
Sprint-4	Recommendation & Alert System	USN-7	As a user, I want to receive disease-specific treatment recommendations and management tips based on results.	3	Medium
Sprint-4	Notifications & Personalization	USN-8	As a farmer, I want to receive disease alerts and personalized management notifications to prevent disease spread.	5	High

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	8	5 Days	1 July 2025	5 July 2025	6	5 July 2025
Sprint-2	12	5 Days	8 July 2025	12 July 2025	8	12 July 2025
Sprint-3	11	5 Days	15 July 2025	19 July 2025	7	19 July 2025
Sprint-4	8	5 Days	22July 2025	26 July 2025	5	26 July 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)

If the total story points completed = 6 + 8 + 7 + 5 = 26 points over 20 days (4 sprints, 5 days each):

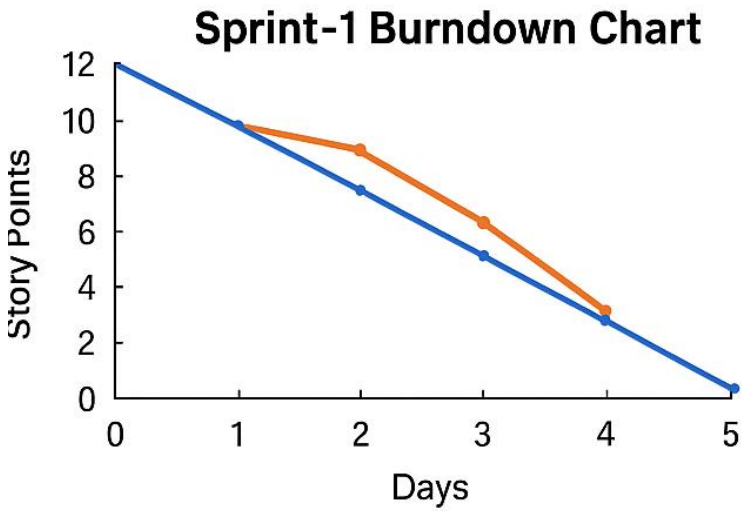
Average velocity (AV) = total story points completed / total days

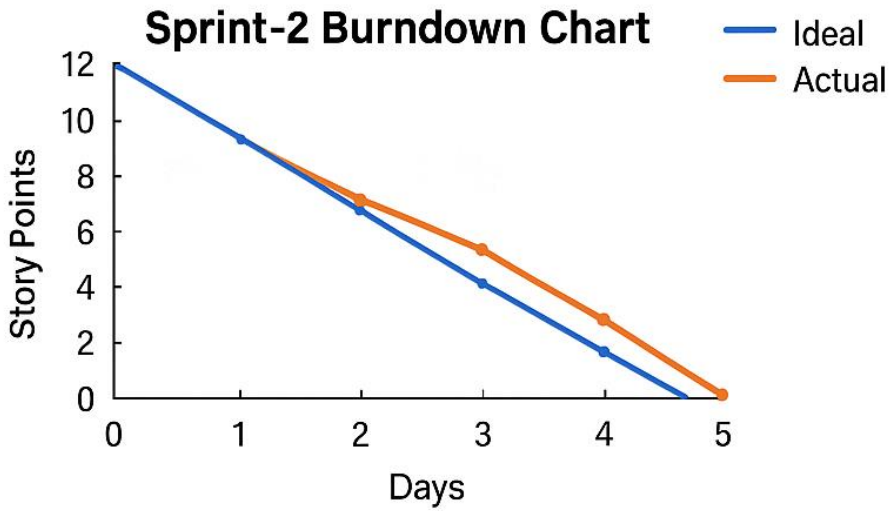
= 26 / 20

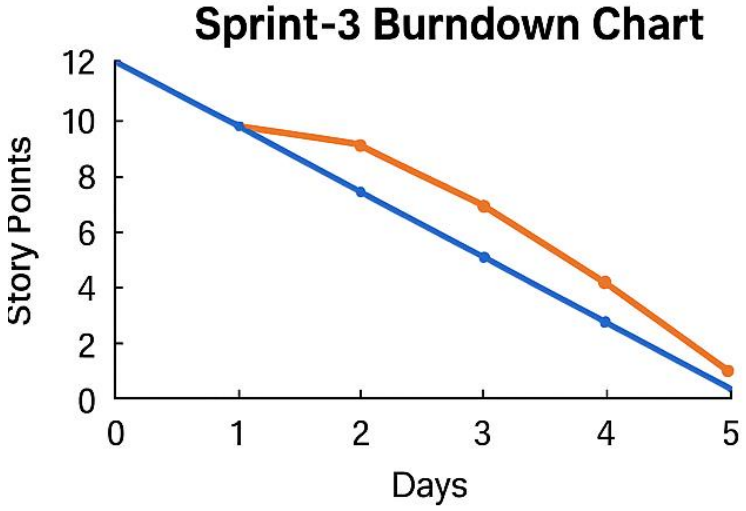
= 1.3 story points per day

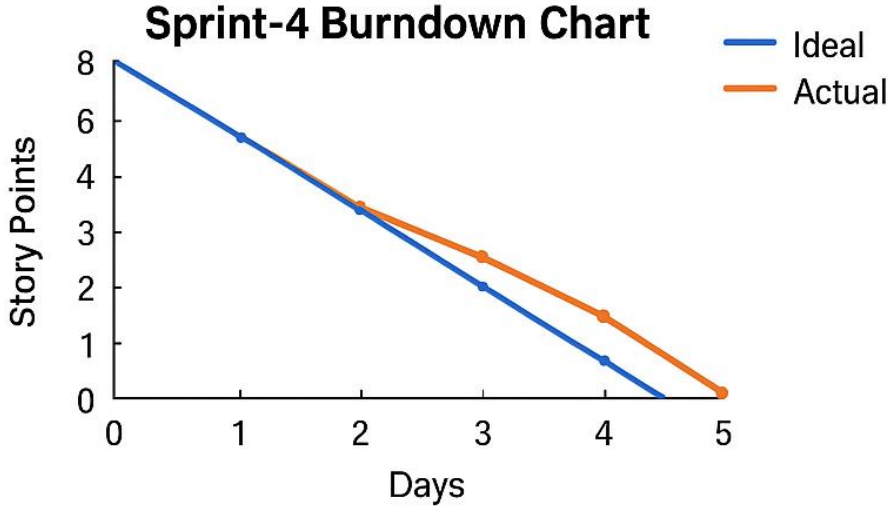
Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.


Sprint-1 Burndown Chart
Story Points
Days
0
2
4
6
8
10
12
0
1
2
3
4
5


Sprint-2 Burndown Chart
Ideal
Actual
Story Points
Days
0
2
4
6
8
10
12
0
1
2
3
4
5


Sprint-3 Burndown Chart
Story Points
Days
0
2
4
6
8
10
12
0
1
2
3
4
5


Sprint-4 Burndown Chart
Ideal
Actual
Story Points
Days
0
1
2
3
4
6
8
0
1
2
3
4
5

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

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https://www.atlassian.com/agile/tutorials/epics

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https://www.atlassian.com/agile/tutorials/burndown-charts