Project Planning Phase

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

Date	04 October 2023
Team ID	Team-592895
Project Name	Lip reading using Deep learning
Maximum Marks	8 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	User Interface	USN-1	As a user with hearing difficulties, I want a user-friendly interface for real-time text transcription.	3	High	Siddharth Rashmi
Sprint-2	Data Collection and Preprocessing	USN-2	As a data engineer, I want to gather a diverse dataset of video clips with transcriptions.	5	High	Siddharth Rashmi
Sprint-2		USN-3	As a data scientist, I want to develop data preprocessing pipelines for video and audio data.	4	High	Siddharth Rashmi
Sprint-3	Model development	USN-4	As a machine learning engineer, I want to build the lip-reading module using a CNN-based architecture.	8	High	Siddharth Rashmi
Sprint-3		USN-5	As a data scientist, I want to train the lip-reading model on the diverse dataset for lip reading.	7	High	Siddharth Rashmi
Sprint-4	Model Development	USN-6	As a machine learning engineer, I want to develop the speech recognition module using an RNN-based architecture.	8	High	Siddharth Rashmi
		USN-7	As a data scientist, I want to train the speech recognition model on the diverse dataset for speech recognition.	7	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	3	1 Days	24 Oct 2023	25 Oct 2023	1	25 Oct 2023
Sprint-2	9	1 Days	26 Oct 2023	27 Oct 2023	1	27 Oct 2023
Sprint-3	15	2 Days	28 Oct 2023	30 Oct 2023	2	30 Oct 2023
Sprint-4	15	2 Days	31 Oct 2023	01 Nov 2023	2	01 Nov 2023

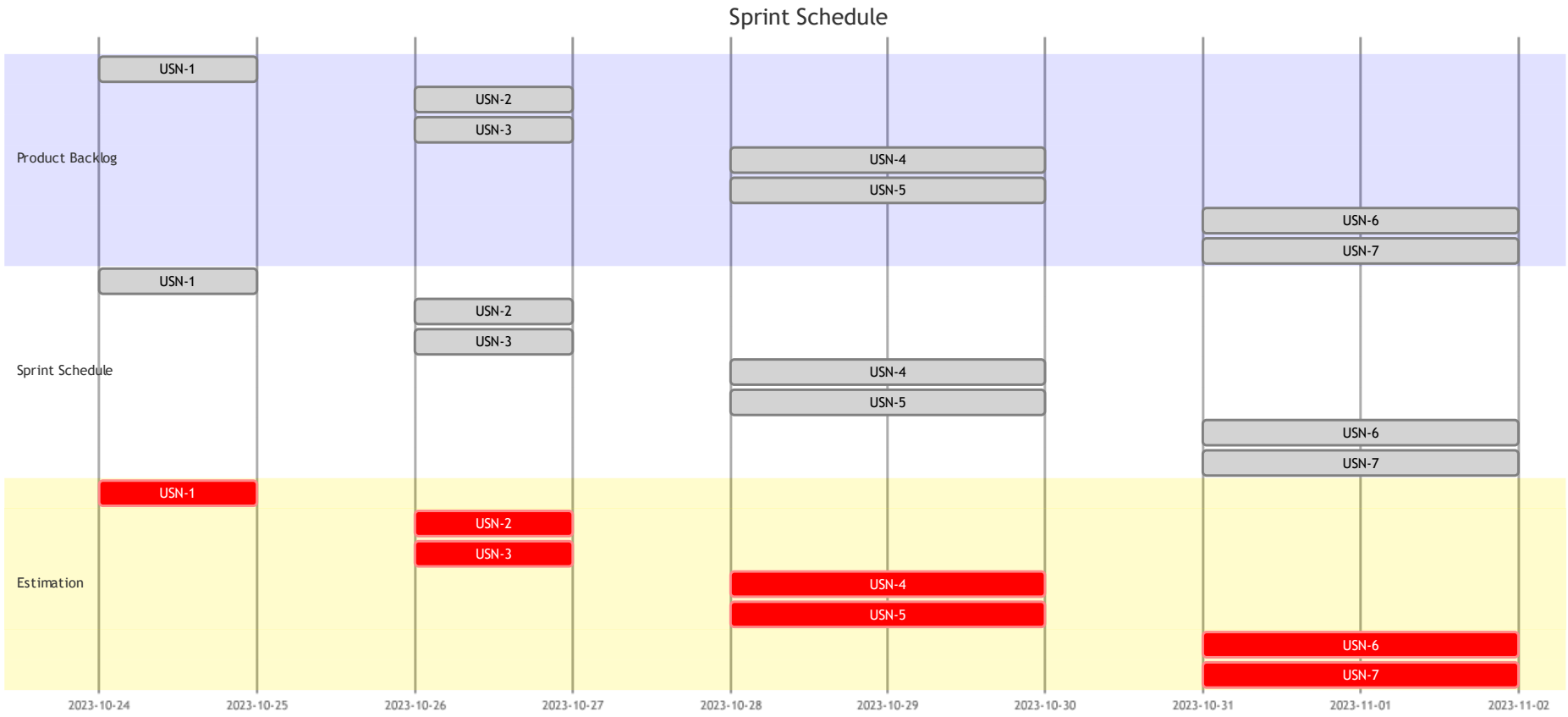
Velocity:

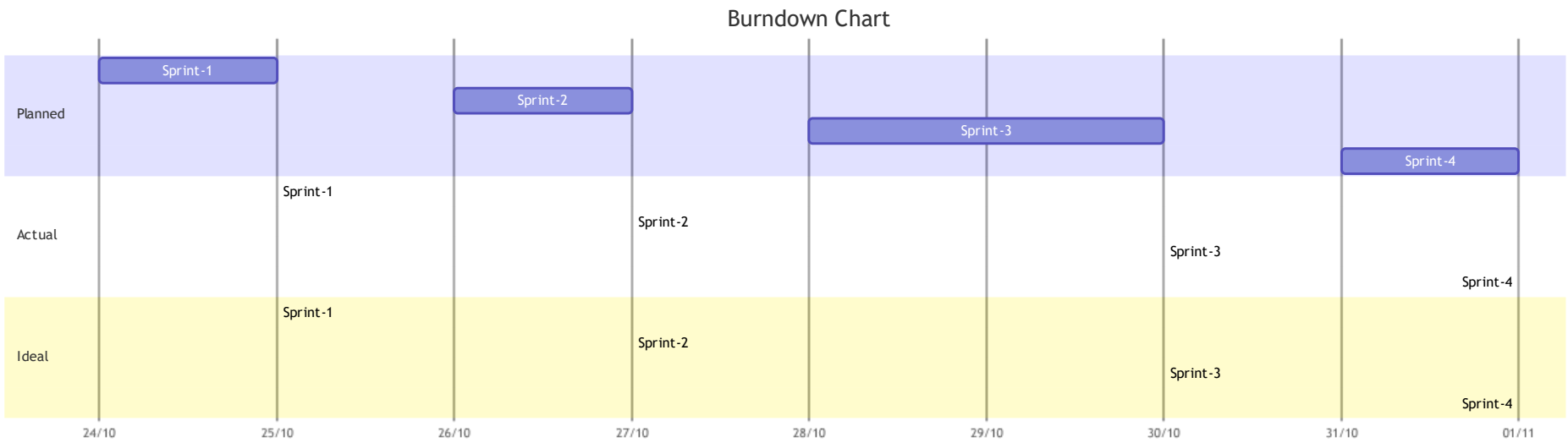
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$\mathbf{AV} = \frac{sprint\ duration}{velocity} = 10.5/6 = 1.75$$

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.





Here's a summary of the burn-down chart:

Sprint-1: The team started with 3 story points and completed 1 story point, as indicated by the downward slope.
Sprint-2: The team started with 9 story points and completed 1 story point.
Sprint-3: The team started with 15 story points and completed 2 story points.
Sprint-4: The team started with 15 story points and completed 2 story points.