

REAL-TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY-ABLED

Date:	22 October 2022
Team ID:	PNT2022TMID26213
Project Name:	Project - Real Time Communication System Powered by AI for Specially Abled
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	Data Collection	USN-1	Collect Dataset	9	High	LAKSHMIPRIYA B M, RACHEAL SWARNA KUMAR S, YAMINI M, MAHESWARI S
Sprint-1		USN-2	Image preprocessing	8	Medium	LAKSHMIPRIYA B M, RACHEAL SWARNA KUMAR S, YAMINI M, MAHESWARI S
Sprint-2	Model Building	USN-3	Import the required libraries, add the necessary layers and compile the model	10	High	LAKSHMIPRIYA B M, RACHEAL SWARNA KUMAR S, YAMINI M, MAHESWARI S
Sprint-2		USN-4	Training the image classification model using CNN	7	Medium	LAKSHMIPRIYA B M, RACHEAL SWARNA KUMAR S, YAMINI M, MAHESWARI S
Sprint-3	Training and Testing	USN-5	Training the model and testing the model's performance	9	High	LAKSHMIPRIYA B M, RACHEAL SWARNA KUMAR S, YAMINI M, MAHESWARI S

Sprint-4	Implementation of the application	USN-6	Converting the input sign language images into English alphabets	8	Medium	LAKSHMIPRIYA B M, RACHEAL SWARNA KUMAR S, YAMINI M, MAHESWARI S
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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	10	6 Days	24 Oct 2022	29 Oct 2022	8	29 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	04 Nov 2022	5	04 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	11 Nov 2022	7	11 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	18 Nov 2022	5	18 Nov 2022

Velocity:

$$\text{Average Velocity} = \frac{\text{Velocity}}{\text{Sprint Duration}}$$

- Average Velocity → AV
- Velocity → Points per sprint
- Sprint Duration → Number of days per sprint

1. Sprint – 1: $AV = 8 / 6 = 1.33$
2. Sprint – 2: $AV = 5 / 6 = 0.83$
3. Sprint – 3: $AV = 7 / 6 = 1.167$
4. Sprint – 4: $AV = 5 / 6 = 0.83$