

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

|               |  |
|---------------|--|
| Date          | 14 November 2022   |
| Team ID       | PNT2022TMID18759   |
| Project Name  | 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             | Dataset has to be collected   | 12           | High     | MANOJ<br>PRUDHVI             |
| Sprint-1 | Image Preprocessing           | USN-2             | Collected images has to be preprocessed                                       | 8            | Medium   | ROHITH<br>BHARATH<br>PRUDHVI |
| Sprint-2 | Model Building                | USN-3             | Import the required libraries, add the necessary layers and compile the model | 12           | High     | ROHITH<br>MANOJ              |
| Sprint-2 | Model Training                | USN-4             | Training the image classification model using CNN                             | 8            | Medium   | PRUDHVI<br>MANOJ<br>ROHITH   |

|          |                                   |       |  |    |      |                             |
|----------|-----------------------------------|-------|--|----|------|-----------------------------|
| Sprint-3 | Training & Testing                | USN-5 | Training the model and testing the model's performance           | 20 | High | MANOJ<br>BHARATH<br>PRUDHVI |
| Sprint-4 | Implementation of the application | USN-6 | Converting the input sign language images into English alphabets | 20 | High | ROHITH<br>PRUDHVI           |

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

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

| 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   | 24 Oct 2022       | 29 Oct 2022               | 20  | 29 Oct 2022                  |
| Sprint-2 | 20                 | 6 Days   | 31 Oct 2022       | 05 Nov 2022               | 20  | 05 Nov 2022                  |
| Sprint-3 | 20                 | 6 Days   | 07 Nov 2022       | 12 Nov 2022               | 20  | 12 Nov 2022                  |
| Sprint-4 | 20                 | 6 Days   | 14 Nov 2022       | 19 Nov 2022               | 20  | 19 Nov 2022                  |

**Velocity:**



Burndown Chart:

