

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 15 November 2022   |
| Team ID       | PNT2022TMID39233   |
| Project Name  | Real Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 8 Marks  |

#### Product Backlog, Sprint Schedule, and Estimation

Team Lead: Tamil Selvan M Use the below template to create product backlog and sprint schedule

| 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     | Aakash V<br>Abdul Rahman A<br>Gnanabalan U<br>Sakthi Kumar R |
| Sprint-1 |                               | USN-2             | Image preprocessing   | 8            | Medium   | Aakash V<br>Abdul Rahman A<br>Gnanabalan U<br>Sakthi Kumar R |
| Sprint-2 | Model Building                | USN-3             | Import the required libraries, add the necessary layers and compile the model | 10           | High     | Aakash V<br>Abdul Rahman A<br>Gnanabalan U<br>Sakthi Kumar R |
| Sprint-2 |                               | USN-4             | Training the image classification model using CNN                             | 7            | Medium   | Aakash V<br>Abdul Rahman A<br>Gnanabalan U<br>Sakthi Kumar R |

|          |                                   |       |  |   |        |  |
|----------|-----------------------------------|-------|--|---|--------|--|
| Sprint-3 | Training and Testing              | USN-5 | Training the model and testing the model's performance           | 9 | High   | Aakash V<br>Abdul Rahman A<br>Gnanabalan U<br>Sakthi Kumar R |
| Sprint-4 | Implementation of the application | USN-6 | Converting the input sign language images into English alphabets | 8 | Medium | Aakash V<br>Abdul Rahman A<br>Gnanabalan U<br>Sakthi Kumar R |

#### 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:**

$$AV = \frac{\text{sprint duration}}{\text{velocity}}$$

$$AV = 6/10 = 0.6$$

**Burndown chart:**



**SPRINT BURNDOWN CHART:**

