

## Project Planning Phase Sprint Delivery Plan

|               |  |
|---------------|--|
| Date          | 18 October 2022  |
| Team ID       | PNT2022TMID11418   |
| 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 | Dataset Collection             | USN-1             | Collect Dataset for building model.  | 9            | High     | Harshavardhini, Harini, Aarthi, Aruna |
| Sprint-1 | Image Preprocessing            | USN-2             | Perform Pre-processing techniques on the dataset.                              | 8            | Medium   | Harshavardhini, Harini                |
| Sprint-2 | Model Building                 | USN-3             | Import the required libraries, add the necessary layers and compile the model. | 10           | High     | Harshavardhini, Harini, Aarthi, Aruna |
| Sprint-2 |                                | USN-4             | Training the image classification model using CNN.                             | 7            | Medium   | Harshavardhini, Harini, Aarthi, Aruna |
| Sprint-3 | Training and Testing the Model | USN-5             | Training the model and testing the model's performance.                        | 9            | High     | Harshavardhini, Harini, Aarthi, Aruna |

|          |                         |       |  |   |        |                  |
|----------|-------------------------|-------|--|---|--------|------------------|
| Sprint-4 | Application Development | USN-6 | Converting the input gesture image into English Alphabets. | 8 | Medium | Aarthi,Arun<br>a |
|----------|-------------------------|-------|--|---|--------|------------------|

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 | 17                 | 6 Days   | 24 Oct 2022       | 29 Oct 2022               | 17  | 29 Oct 2022                  |
| Sprint-2 | 17                 | 6 Days   | 31 Oct 2022       | 05 Nov 2022               | 17  | 05 Nov 2022                  |
| Sprint-3 | 9                  | 6 Days   | 07 Nov 2022       | 12 Nov 2022               | 9   | 12 Nov 2022                  |
| Sprint-4 | 8                  | 6 Days   | 14 Nov 2022       | 19 Nov 2022               | 8   | 19 Nov 2022                  |

Velocity:

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

$$AV = \frac{6}{10} = 0.6$$

Burndown Chart:

