

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 22 October 2022  |
| Team ID       | PNT2022TMID37039   |
| Project Name  | Real-Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 8 Marks  |

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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 | Preprocessing                 | USN-1             | As a user, I can upload any kind of image with the pre-processing step is involved in it.                 | 15           | High     | PANDURANGAN K<br>PAVITHRA S<br>SUDHANTHIRAN S        |
| Sprint-1 |                               | USN-2             | As a user, I can upload the image in any resolution.  | 5            | Low      | SUBASH GOWTHAM J<br>PANDURANGAN K<br>ARJUNA ASHWIN A |
| Sprint-2 | Model                         | USN-3             | As a user, I will get a application with ML model which provides high accuracy of recognized Hand gesture | 10           | Medium   | PANDURANGAN K<br>PAVITHRA S<br>SUDHANTHIRAN S        |

|               |                                      |                          |   |                     |                 |  |
|---------------|--------------------------------------|--------------------------|---|---------------------|-----------------|--|
| Sprint-2      |                                      | USN-4                    | As a user, I can pass the hand Gesture for recognizing the Radiology images.  | 10                  | Medium          | SUBASH GOWTHAM J<br>PANDURANGAN K<br>ARJUNA ASHWIN A                 |
| <b>Sprint</b> | <b>Functional Requirement (Epic)</b> | <b>User Story Number</b> | <b>User Story / Task</b>  | <b>Story Points</b> | <b>Priority</b> | <b>Team Members</b>  |
| Sprint-3      | User Interface                       | USN-5                    | As a user, I will upload the Radiology image to the application by clicking a upload button.                        | 15                  | High            | PANDURANGAN K<br>PAVITHRA S<br>SUDHANTHIRAN S<br>SUBASH<br>GOWTHAM J |
| Sprint-3      |                                      | USN-6                    | As a user, I can know the details of the fundamental usage of the application.                                      | 5                   | Low             | PANDURANGAN K<br>SUBASH<br>GOWTHAM J<br>ARJUNA ASHWIN                |
| Sprint-4      | Cloud Deployment                     | USN-7                    | As a user, I can see the manipulated image on the screen with respect to the gesture performed and cloud Deployment | 15                  | High            | PANDURANGAN K<br>PAVITHRA S<br>SUDHANTHIRAN S                        |
| Sprint-4      |                                      | USN-8                    | As a user, I can access the web application and make the use of the product from anywhere                           | 5                   | Low             | PANDURANGAN K<br>SUBASH<br>GOWTHAM J<br>ARJUNA ASHWIN                |

#### 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 | 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:**

Imagine we have a 6-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)

$$AV = \text{Sprint Duration} / \text{Velocity} = 20 / 6 = 3.33$$