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

| Date | 23rd October 2022 |
|---------------|--|
| Team ID | PNT2022TMID35886 |
| Project Name | Real Time Communication System Powered by Al 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 | | Dataset is collected on the basis of various hand signs and curated according to the problem statement. | 4 | High | Mohnish, Beulah |
| Sprint-1 | Data Preprocessing | | The dataset is preprocessed in order to check noisy data and other inconsistencies before executing it to the algorithm. | 6 | Low | Krishna Kumar, Ranjith |
| Sprint-2 | Model Building | | Model is built according to the image features in such a way that the model identifies the features of the sign image and learns in order to give correct output. | 8 | High | Mohnish, Ranjith |
| Sprint-2 | Model Training | | Data is fed into the model and the model is trained in order to find the optimal weights that give help in predicting the correct output. | 8 | High | Beulah, Krishna Kumar |
| Sprint-2 | Model Testing | | Model is tested in such a way that the collection data or images are trained frame by frame according to the user requirements. | 6 | Medium | Mohnish, Beulah |
| Sprint-3 | User Registration | USN-1 | As a user, I need to register and create a login using my credentials. Once created, I can login into the application and access the site using mobile/Desktop. | 8 | Medium | Beulah, Krishna Kumar |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|----------------------------------|----------------------|--|-----------------|----------|------------------------|
| Sprint-3 | Sign Capture / Text input | USN-2 | I can see an option to start capturing the video using my camera, so that the signs are converted into text or audio | 8 | High | Ranjith, Krishna Kumar |
| | | USN-3 | As a user, there's an option to convert the text or audio that i provide into signs | 4 | Low | Ranjith, Beulah |
| Sprint-4 | Converted Message/Sign | USN-4 | The signs i capture using my camera are converted to english text or audio | 8 | High | Mohnish, Krishna Kumar |
| Sprint-4 | Application Testing | | The application is then tested under various circumstances. | 8 | Medium | Mohnish, Ranjith |

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 | 10 | 02 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 22 | 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 | 16 | 19 Nov 2022 |

Velocity:

Imagine we have a 10-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)

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

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts