Project Planning Phase

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

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| Date | 08 November 2022 |
| Team ID | PNT2022TMID54046 |
| Project Name | Real Time Communication System Powered by AI for Specially Abled |
| Maximum Marks | 8 Marks |

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

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| **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 | Keerthana, Jeya Carolin Agnes,Sounthariyaa, Sneka Nayaki |
| 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 | Keerthana, Sounthariyaa, |
| 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 | Medium | Keerthana, Jeya Carolin Agnes |
| 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 | Keerthana, Sneka Nayaki |
| 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 | High | Keerthana, Sneka Nayaki |
| 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 | Keerthana, Jeya Carolin Agnes |

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| **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 | Keerthana, Sneka Nayaki |
| USN-3 | As a user, there’s an option to convert the text or audio that i provide into signs | 4 | Low | Keerthana, Sounthariyaa, |
| Sprint-4 | Converted Message/Sign | USN-4 | The signs i capture using my camera are converted to english text or audio | 8 | Medium | Keerthana, Jeya Carolin Agnes |
| Sprint-4 | Application Testing |  | The application is then tested under various circumstances. | 8 | High | Keerthana, Sneka Nayaki |

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

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| **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 |  |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 |  |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 16 |  |

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)



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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). 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>