

Project Planning Phase

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

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|---------------|--|
| Date | 5 November 2022 |
| Team ID | PNT2022TMID31078 |
| 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 | Data Collection | USN-1 | Collecting the Dataset | 10 | High | Kirubasankar R Dineshkumar M |
| Sprint-2 | | USN-2 | Image Pre-processing | 7 | Medium | Naveenkumar P Pradhap B |
| Sprint-2 | Model Building | USN-3 | Import the required libraries, add the necessary layers and compile the model. | 10 | High | Naveenkumar P Pradhap B Dineshkumar M Kirubasankar R |
| Sprint-3 | Training and Testing | USN-5 | Training the model and testing the model's performance | 10 | High | Pradhap B Naveenkumar P Dineshkumar M |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-----------------------------------|-------------------|--|--------------|----------|---|
| Sprint-4 | Implementation of the application | USN-6 | Converting the input sign language images into English alphabets | 10 | High | Naveenkumar P Pradhap B Dineshkumar M Kirubasankar R |
| Sprint-4 | | USN-7 | Build the system and deploy the model in IBM cloud | 7 | Medium | Pradhap B Dineshkumar M Kirubasankar 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 | 4 Days | 24 Oct 2022 | 27 Oct 2022 | 8 | 29 Oct 2022 |
| Sprint-2 | 10 | 6 Days | 28 Oct 2022 | 02 Nov 2022 | 7 | 05 Nov 2022 |
| Sprint-3 | 10 | 4 Days | 03 Nov 2022 | 06 Nov 2022 | 8 | 10 Nov 2022 |
| Sprint-4 | 10 | 5 Days | 07 Nov 2022 | 11 Nov 2022 | 7 | 15 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)

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

$$AV = 6/10 = 0.6$$

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.

