

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

<b>Date</b>	18 October 2022
<b>Team ID</b>	PNT2022TMID35302
<b>Project Name</b>	Project - Real Time Communication System Powered by AI for Specially Abled
<b>Maximum Marks</b>	8 Marks

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

Use the below template to create product backlog and sprint schedule

<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>
3	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	<ul style="list-style-type: none"> <li>● Prathiba D</li> <li>● Rohith Kumar M</li> </ul>
3	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	5	Medium	<ul style="list-style-type: none"> <li>● Ramya P</li> <li>● Rohith Kumar M</li> </ul>

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3	Login	USN-3	As a user, I can log into the application by entering email & password	5	Medium	<ul style="list-style-type: none"> <li>● Prathiba D</li> <li>● Sendamangalam Gandhi Abhimanyu</li> </ul>
4	Mode Selection	USN-4	As a user, I will be prompted to select the mode of communication and I will select the specially abled mode (Gesture to Speech)	10	High	<ul style="list-style-type: none"> <li>● Prathiba D</li> <li>● Rohith Kumar M</li> </ul>
1	Video Capturing	USN-5	As a user of this mode my hand gesture will be captured as video	4	Medium	<ul style="list-style-type: none"> <li>● Rohith Kumar M</li> <li>● Sendamangalam Gandhi Abhimanyu</li> </ul>
1	Gesture to text conversion	USN-6	The gestures I show will be converted into a text format internally	12	High	<ul style="list-style-type: none"> <li>● Prathiba D</li> <li>● Ramya P</li> </ul>
1	Text to speech conversion	USN-7	The intermediate text format will be converted to speech using API	4	Medium	<ul style="list-style-type: none"> <li>● Rohith Kumar M</li> <li>● Sendamangalam Gandhi Abhimanyu</li> </ul>
2	Speech Recording	USN-8	As a user of this mode I will record the speech inorder to convert it into gesture	4	Medium	<ul style="list-style-type: none"> <li>● Ramya P</li> <li>● Sendamangalam Gandhi Abhimanyu</li> </ul>

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2	Speech to text conversion	USN-9	Voice input will be given through a microphone and will be converted to text internally	8	Medium	<ul style="list-style-type: none"> <li>● Ramya P</li> <li>● Rohith Kumar M</li> </ul>
2	Text to gesture conversion	USN-10	The text format is converted into sign language gestures using the pre-trained model	8	High	<ul style="list-style-type: none"> <li>● Prathiba D</li> <li>● Sendamangalam Gandhi Abhimanyu</li> </ul>
4	Logout	USN-11	I will logout after the speech/ video gestures are shown depending on my user mode	10	Low	<ul style="list-style-type: none"> <li>● Ramya P</li> <li>● Sendamangalam Gandhi Abhimanyu</li> </ul>

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

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned Date)</b>	<b>Sprint Release Date (Actual)</b>
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 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)

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

## Burndown Chart:

A burndown 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.

