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

Date	18 October 2022
Team ID	PNT2022TMID50654
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	Data Collection	1	Medium	Ajithkumar M
Sprint-1	Data Collection	USN-2	Split Testand Train Dataset	1	High	ntony Sesu Kishon A
Sprint-1	Image Preprocessing	USN-3	Load Image Data Generator	2	High	Thaniyel J
Sprint-1	Image Preprocessing	USN-4	Apply Image Data Generator to Test Dataset	2	Medium	Vishal Bharath Kumar T
Sprint-1	Image Preprocessing	USN-5	Apply Image Data Generator to Train Dataset	2	Medium	Starwin A
Sprint-2	Model Building	USN-6	Build the Model	3	High	Ajithkumar M
Sprint-2	Model Building	USN-7	Add Layers to the Model	3	High	Antony Sesu Kishon A
Sprint-2	Model Building	USN-8	Compile the Model	3	Medium	Thaniyel J
Sprint-2	Train the Model	USN-9	Fit the Model	3	High	Starwin A
Sprint-2	Train the Model	USN-10	Save the Model	2	Medium	Vishal Bharath Kumar T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Testing the Model	USN-11	Load the Saved Model	2	Medium	Ajithkumar M
Sprint-3	Testing the Model	USN-12	Load the Test Samples	3	Medium	Thaniyel J
Sprint-3	Testing the Model	USN-13	Preprocess the test Samples	3	Medium	Starwin A
Sprint-3	Testing the Model	USN-14	Predict the Image Sample	5	High	Vishal Bharath Kumar T
Sprint-3	Testing the Model	USN-15	Evaluate the Model for few more Validation	5	High	Antony Sesu Kishon A
Sprint-4	Application Building	USN-16	Build the HTML Page	4	Medium	Antony Sesu Kishon A
Sprint-4	Application Building	USN-17	Build the Flask Application	4	Medium	Vishal Bharath Kumar T
Sprint-4	Application Building	USN-18	Bind the Model with the Flask Application	5	High	Ajithkumar M
Sprint-4	Application Building	USN-19	Train Model in IBM Cloud	4	High	Thaniyel J
Sprint-4	Application Building	USN-20	Host the Application in IBM Cloud	3	High	Starwin A

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	8	2 Days	04 Nov 2022	05 Nov 2022	8	06 Nov 2022
Sprint-2	14	3 Days	04 Nov 2022	06 Nov 2022	13	06 Nov 2022
Sprint-3	18	5 Days	05 Nov 2022	10 Nov 2022	18	08 Nov 2022
Sprint-4	20	5 Days	08 Nov 2022	13 Nov 2022	Not Yet Started	-

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.