

Project Planning Phase

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

Date	11 November 2022
Team ID	PNT2022TMID50646
Project Name	Project – 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	Low	Priya Dharshini
Sprint-1	Data Collection	USN-2	Split Test and Train Sets	1	Low	Deva Karunya
Sprint-1	Image Preprocessing	USN-3	Load Image Data Generator	2	High	Iswarya
Sprint-1	Image Preprocessing	USN-4	Apply Image Data Generator to Test Dataset	2	High	Lourdu Mani Seina
Sprint-1	Image Preprocessing	USN-5	Apply Image Data Generator to Train Dataset	2	High	Sharmila
Sprint-2	Model Building	USN-6	Build the Model	3	High	Priya Dharshini
Sprint-2	Model Building	USN-7	Add Layers to the Model	3	High	Deva Karunya
Sprint-2	Model Building	USN-8	Compile the Model	3	High	Iswarya
Sprint-2	Train the Model	USN-9	Fit the Model	3	High	Lourdu Mani Seina

Sprint-2	Train the Model	USN-10	Save the Model	2	Medium	Sharmila
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Sprint	Functional Requirements(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	Priya Dharshini
Sprint-3	Testing The Model	USN-12	Load the Test Samples	3	Medium	Deva Karunya
Sprint-3	Testing The Model	USN-13	Preprocess the Test Samples	3	Medium	Iswarya
Sprint-3	Testing The Model	USN-14	Predict the Image Sample	5	High	Lourdu Mani Seina
Sprint-3	Testing The Model	USN -15	Evaluate the Model for few more Validation	5	High	Sharmila
Sprint-4	Application Building	USN-16	Build the HTML page	4	Medium	Priya Dharshini
Sprint-4	Application Building	USN-17	Build the Flask Application	4	Medium	Deva Karunya
Sprint-4	Application Building	USN-18	Bind the Model with the Flask Application	5	High	Iswarya
Sprint-4	Cloud Deployment	USN-19	Train Model in IBM Cloud	4	High	Lourdu Mani Seina
Sprint-4	Cloud Deployment	USN-20	Host the Application in IBM cloud	3	High	Sharmila

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	1 Day	04 nov 2022	05 nov 2022	8	5 nov 2022
Sprint-2	14	1 Day	05 nov 2022	06 Nov 2022	13	6 nov 2022
Sprint-3	18	1 Day	06 Nov 2022	07 Nov 2022	18	7 nov 2022
Sprint-4	23	2 Days	08 Nov 2022	15 Nov 2022	23	14 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 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.