

Project Planning Phase

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

Date	4 November 2022
Team ID	PNT2022TMID12839
Project Name	Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance Companies
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 (Dataset)	USN-1	As a user, I will download a dataset of gestures for this project.	2	High	Aparna Sharath
Sprint-1	Image Preprocessing	USN-2	As a user, I will import necessary libraries for configuration of image datagenerator and apply them to test and train datasets.	2	High	Pon rashmi
Sprint-2	Model Building	USN-3	As a user, I can import necessary libraries and models of CNN and add Dense layers.	2	Low	Sharath Aparna
Sprint-2	Model Building	USN-4	As a user, I will train, save and test the model.	2	Medium	Nithishwar Pon Rashmi
Sprint-3	Application Building	USN-5	As a user, I create html front pages (CSS for styling web page and JS to connect back end).	1	High	Nithishwar Pon Rashmi Sharath

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Aparna
Sprint-3	Application Building	USN-6	As a user, I use python flask for building back end(for server side scripting).	2	High	Nithishwar Pon Rashmi
Sprint-3	Application Building	USN-7	As a user, I'm going to run the application by combining both front end and back end.	2	High	Aparna Nithishwar PonRashmi
Sprint-4	Train the model on IBM	USN-8	As a user, register for IBM cloud.	1	Medium	Aparna Sharath Nithishwar PonRashmi
Sprint-4	Train the model on IBM	USN-9	As a user, train the model on IBM and integrate it with the flask application.	2	High	Sharath Nithishwar

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	20	6 Days	29 Oct 2022	3 Nov 2022	20	30 Oct 2022
Sprint-2	20	6 Days	04 Nov 2022	9 Nov 2022	20	06 Nov 2022
Sprint-3	20	6 Days	10 Nov 2022	15 Nov 2022	20	11 Nov 2022

Sprint-4	20	6 Days	16 Nov 2022	21 Nov 2022	20	20 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)

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

Where

Average Velocity - Story points per day

Sprint Duration - Number of days (Duration) for Sprints

Velocity - Points per Sprint

$$A=20/5=4$$

Average Velocity is 4 points per sprint.

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.

Burndown Chart:



