Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID25973
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	Darshan S Hariprasath KP
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	Darshan S Lokesh Alapthi
Sprint-2	Model Building	USN-3	As a user, I can import necessary libraries and models of CNN and add Dense layers.	2	Low	Darshan S Melvin MJ
Sprint-2	Model Building	USN-4	As a user, I will train, save and test the model.	2	Medium	Darshan S Jaswanth
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	Darshan S Hariprasath KP Lokesh Alapathi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Melvin Jaswanth
Sprint-3	Application Building	USN-6	As a user, I use python flask for building back end(for server side scripting).	2	High	Darshan S Lokesh Alapathi Melvin
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	Hariprasath KP Darshan S Jaswanth
Sprint-4	Train the model on IBM	USN-8	As a user, register for IBM cloud.	1	Medium	Darshan S Melvin Lokesh Alapathi
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	Darshan S Jaswanth Hariprasath Kp

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	24 Oct 2022	29 Oct 2022	20	02 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	04 Nov 2022	20	06 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	10 Nov 2022	20	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	18 Nov 2022	20	22 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)

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

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.