

## Project Planning Phase

### Sprint Delivery Plan (Product Backlog, Sprint Planning, Stories, Story points)

Date	2 November 2022
Team ID	PNT2022TMID35710
Project Name	Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As an owner of a particular vehicle, I can log into the application by entering email & password.	2	Low	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint-1	User Confirmation	USN-2	As an owner of a particular vehicle, I will receive confirmation email once I have registered for the application.	1	Medium	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint-1	Login	USN-3	As an owner of a particular vehicle, I can log into the application by entering email & password.	2	Medium	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint-2	Data Collection	USN-4	Download the dataset used in intelligent vehicle damage assessment & cost estimator for insurance companies.	2	High	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint-2	Image Pre Processing	USN-5	Improve the image data that suppresses	2	High	Abhishek Manoharan

			unwilling distortions or enhances some image features important for further processing, although performing some geometric transformations of images like rotation, scaling, etc.			Balakumar R Ponnada Srividya Vamsi Raju M
Sprint - 3	Model Building	USN-6	Define the model architecture and add the CNN layer and test, saving the model.	2	Medium	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint - 3	Cloud DB	USN-7	Below are steps that need to follow for creating and using cloud service. ❖ Register & login to IBM cloud ❖ Create service instance ❖ Creating service credentials ❖ Launch cloud DB ❖ Create database	2	High	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint - 4	Application Building	USN-8	Building a web application that is integrated into the model we built. A UI is provided to the user where he has uploaded the image. Based on the saved model, the uploaded image will be analyzed and the prediction is showcased on the UI.	2	High	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M
Sprint - 4	Train The Model On IBM	USN-9	Build Deep learning model and computer vision Using the IBM cloud.	2	Medium	Abhishek Manoharan Balakumar R Ponnada Srividya Vamsi Raju M

### 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	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. The velocity of the team is 20 (points per sprint). Let us calculate the team's average velocity

**(AV) per iteration unit (story points per day)**

$$AV = \frac{(\text{Sprint Duration})}{\text{Velocity}}$$

$$AV = \frac{20}{6}$$

$$AV = 3.33$$

#### 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.

