

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	03NOVEMBER2022
Team ID	PNT2022TMID18511
Project Name	CAR RESALE VALUE PREDICTION
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	Collect Dataset	USN-1, USN-2, USN-3, USN-4	Download the dataset.	1	Low	J S Mahasri, S Mahalaskhmi, J Madhushree, P V Abithanjalee
	Pre-process Dataset		Import required Libraries	1	Low	
			Read the dataset.	1	Low	
			Cleaning the dataset.	2	Medium	
			Split data into Independent and Dependent Variables.	2	Medium	
Sprint-2	Model Building	USN-1, USN-2, USN-3, USN-4	Apply Random Forest Regressor model	3	High	J S Mahasri, S Mahalaskhmi, J Madhushree, P V Abithanjalee
			.Save the Random Forest Regressor model	2	Medium	
Sprint-3	Application Buliding	USN-1,	Build the Python Flask	3	High	J S Mahasri,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
		USN-2, USN-3, USN-4	Build the HTML Page	3	High	S Mahalaskhmi, J Madhushree, P V Abithanjalee
			Execute and Test	3	High	
Sprint-4	Train the Model On IBM	USN-1, USN-2, USN-3, USN-4	Train The ML Model On IBM	3	High	J S Mahasri, S Mahalaskhmi, J Madhushree, P V Abithanjalee
			Integrate Flask	3	High	

#### 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	31 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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.

