

Project Planning Phase

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

Date	21 October 2022
Team ID	PNT2022TMID21102
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	The dataset which contains a set of features through which the resale price of the car can be identified is to be collected.	2	High	Preetha G
Sprint-1	Pre-Process The Data	USN-2	<p>In this milestone, we will be preprocessing the dataset that is collected. Preprocessing includes:</p> <ol style="list-style-type: none"> 1. Handling the null values. 2. Handling the categorical values if any. 3. Normalize the data if required. 4. Identify the dependent and independent variables. 5. Split the dataset into train and test sets. 	1	Low	Rethessh E D
Sprint-2	Model Building	USN-3	You will need to train the datasets to run smoothly and see an incremental improvement in the prediction rate.	2	Medium	Rohith D
Sprint-3	Application Building	USN-4	we will be integrating it into a web application so that normal users can also use it to know the resale price of the care. In the application, the user provides the parameter values affecting the resale value.	2	Medium	Sujitha D
Sprint-4	Train The Model On IBM	USN-5	Build a Machine Learning Model and deploy it on the IBM Cloud.	2	High	Rohith D

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, 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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>