

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

Date	18 November 2023
Team ID	Team-591780
Project Name	Car Purchase Prediction Using ML
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
Car Buyers	Car Purchase Prediction	USN-1	As a car buyer, I want to input details about the car I'm interested in purchasing, such as make, model, year, and mileage, so that the ML model can predict the likelihood of a successful purchase.	1	High	Amar
System Administrators	Model Management	USN-2	As a system administrator, I want to be able to update the machine learning model with new data periodically, so that the prediction accuracy remains high.	1	Medium	Rakesh

Marketing Team	Customer Segmentation	USN-3	As a member of the marketing team, I want to be able to segment customers based on their predicted likelihood of purchasing a car, so that I can target marketing campaigns more effectively.	2	Low	Sandeep
Sales Representatives	Lead Prioritization	USN-4	As a sales representative, I want the system to prioritize leads based on the predicted likelihood of purchase, so that I can focus my efforts on potential customers who are more likely to convert.	2	High	Hari Krishna
Customer Support	Prediction Explanation for Users	USN-5	As a customer support representative, I want the ability to explain the prediction results to customers who inquire, so that I can provide transparency and build trust.	1	High	Rakesh & Sandeep

**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)
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Sprint-1	1	4 Days	24 Oct 2023	28 Oct 2023	2	28 Oct 2023
Sprint-2	1	5 Days	29 Oct 2023	02 Nov 2023	1	02 Nov 2023
Sprint-3	2	3 Days	03 Nov 2023	05 Nov 2023	1	05 Nov 2023
Sprint-4	2	3 Days	06 Nov 2023	08 Nov 2023	2	08 Nov 2023
Sprint-5	1	7 Days	09 Nov 2023	15 Nov 2023	2	11 Nov 2023

### 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)

$$AV=22/3=7.34$$

### 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>

Burndown chart:-

### Sprint progress



100% done

Done	In progress	Not started
100%	0%	0%

### Sprint burndown



1 point done, -1 point to go

