# Project Planning Phase

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

| | |
|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID39916 |
| Project Name | Project - Car resale value prediction |
| 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 | Home Page | USN-1 | As a user, I can view the home page of the web application. | 20 | Low | VenkatRagavan A S Sethuraman P |
| Sprint-2 | Data Entry | USN-2 | As a user, I can enter my car details in the application. | 20 | Medium | VenkatRagavan A S SaiKumar L |
| Sprint-3 | Car resale value display | USN-3 | As a user, I can view the resale value of my car. | 20 | Medium | VenkatRagavan A S Sethuraman P |
| Sprint-4 | Resale Value Prediction | USN-4 | As a user, I expect the application to predict the resale value of my car. | 20 | Medium | VenkatRagavan A S Surya E |

### Project Tracker, Velocity & Burndown Chart: (4 Marks)

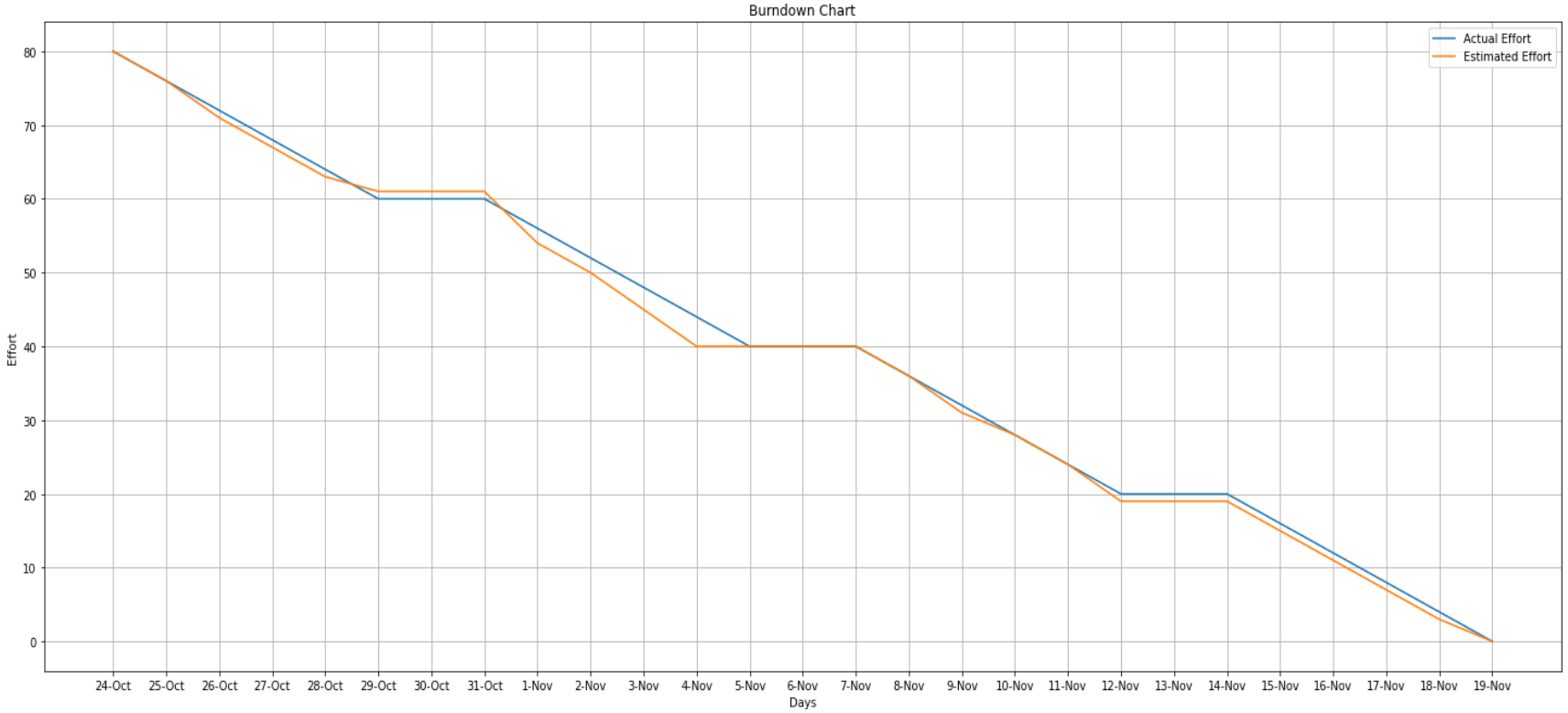
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|---|---|---|---|---|---|---|
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 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 |

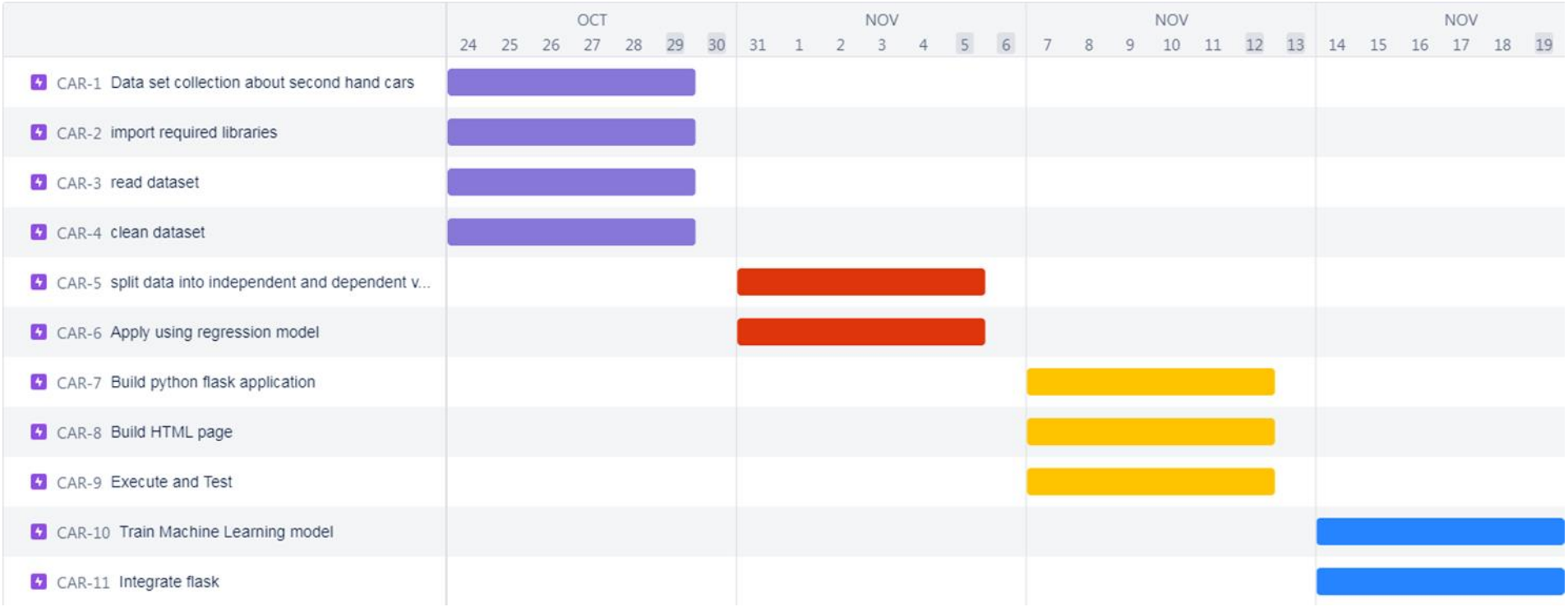
**Velocity:**
Imagine we have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$\textbf{Average Velocity} = \frac{20}{6} = 3.33$$

**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.

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24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
CAR-1 Data set collection about second hand cars
CAR-2 import required libraries
CAR-3 read dataset
CAR-4 clean dataset
CAR-5 split data into independent and dependent v...
CAR-6 Apply using regression model
CAR-7 Build python flask application
CAR-8 Build HTML page
CAR-9 Execute and Test
CAR-10 Train Machine Learning model
CAR-11 Integrate flask