

Project Planning Phase

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

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|---------------|---------------------------------------|
| Date | 22 October 2022 |
| Team ID | PNT2022TMID01573 |
| Project Name | Project – Car resale value prediction |
| Maximum Marks | 4 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 | Dataset reading and Pre processing | USN-1 | Cleaning the dataset and splitting to dependent and independent variables | 2 | High | ASHWIN R A |
| Sprint-2 | Building the model | USN-2 | Choosing the appropriate model for building and saving the model as pickle file | 1 | High | ASHWIN PRATHAP G |
| Sprint-3 | Application building | USN-3 | Using flask deploying the ML model | 2 | Medium | ASHWIN R A |
| Sprint-4 | Train the model in IBM | USN-4 | Finally train the model on IBM cloud and deploy the application | 2 | Medium | VIGNESH |

Sprint Delivery Plan

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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 | 15 | 5 Days | 24 Oct 2022 | 29 Oct 2022 | 15 | 29 Oct 2022 |
| Sprint-2 | 15 | 5 Days | 31 Oct 2022 | 05 Nov 2022 | 15 | 05 Nov 2022 |
| Sprint-3 | 15 | 5 Days | 07 Nov 2022 | 12 Nov 2022 | 15 | 12 Nov 2022 |
| Sprint-4 | 15 | 5 Days | 14 Nov 2022 | 19 Nov 2022 | 15 | 19 Nov 2022 |

Velocity:

We have a 5-day sprint duration, and the velocity of the team is 15 (points per sprint). The team's average velocity (AV) per iteration unit (story points per day)

$$\text{Actual Velocity} = \text{Sprint Duration} / \text{Velocity} = 15/5 = 3$$

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.

