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

| Date | 31 0ctober 2022 |
|---|---|
| Team ID | PNT2022TMID29578 |
| Project Name | Car Resale Value Prediction |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Pre-process data | USN-1 | Collect Dataset | 1 | Low | Sridharan M |
| Sprint-1 | | USN-2 | Import required libraries | 1 | Low | Sridharan M ,Vasanthakumar E |
| Sprint-1 | | USN-3 | Read and clean data sets | 2 | Low | Sridharan M ,Vasanthakumar E,Imthiyas N,Dilip kumar K |
| Sprint-2 | Model building | USN-1 | Split data into independent and dependent variables | 3 | Medium | Sridharan M,Dilip kumar K |
| Sprint-2 | | USN-2 | Apply using regression model | 3 | Medium | Sridharan M ,Vasanthakumar E,Imthiyas N,Dilip kumar K |
| Sprint-3 | Application building | USN-1 | Build python flask application and HTML page | 5 | High | Sridharan M ,Vasanthakumar E,Imthiyas N,Dilip kumar K |
| Sprint-3 | | USN-2 | Execute and test | 5 | High | Sridharan M ,Vasanthakumar E |
| Sprint-4 | Training the model | USN-1 | Train machine learning model | 5 | High | Imthiyas N, Sridharan M |
| Sprint-4 | | USN-2 | Integrate flask | 5 | High | Imthiyas N, Sridharan M |

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|---|---|
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation (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 |

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

## Burndown Chart:

| | OCT | | | | | | | NOV | | | | | | | NOV | | | | | | | NOV | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | | | | | | | | | | | | | | | | | | | | | | ████████ | | | | | |