PROJECT PLANNING PHASE

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

DATE	4 NOV 2022
TEAM ID	PNT2022TMID18447
PROJECT TITLE	CAR RESALE VALUE PREDICTION

Product Backlog, Sprint Schedule, and Estimation :

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	Pre-process data	USN-1	Collect Dataset	1	Low	Nivetha M
Sprint-1		USN-2	Import required libraries	1	Low	Ramguhan R T
Sprint-1		USN-3	Read and clean data sets	2	Low	Ruthika R Rithin A
Sprint-2	Model building	USN-1	Split data into independent and dependent variables	3	Medium	Nivetha M Ramguhan R T
Sprint-2		USN-2	Apply using regression model	3	Medium	Rithin A Ruthika R
Sprint-3	Application building	USN-1	Build python flask application and HTML page	5	High	Ramguhan R T Ruthika A
Sprint-3		USN-2	Execute and test	5	High	Nivetha M Rithin A
Sprint-4	Training the model	USN-1	Train machine learning model	5	High	Ruthika R Rithin A
Sprint-4		USN-2	Integrate flask	5	High	Nivetha M Ramguhan R T

Project Tracker, Velocity & Burndown Chart:

Sprint	Total story points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points completed (as on Planned End Date)	Sprint Release Dat (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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Sprint 1 – 1 User Stories x 20 Story Points = 20
Sprint 2 – 1 User Stories x 20 Story Points = 20

Sprint 3 – 1 User Stories x 20 Story Points = 20
Sprint 4 – 1 User Stories x 20 Story Points = 20
Total – 80 Average Sprint Velocity is 80 / 4 = 20

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.