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

Date	02 November, 2022
Team ID	PNT2022TMID08065
Project Name	Crude oil price prediction
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below table to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by using government certified IDs.	6	High	Sneha
Sprint-1	Authentication	USN-2	As a user, I will authenticate using ID credentials.	8	High	Sowjanya, Subhiksha
Sprint-1	Login	USN-3	With the credentials the user can login easily.	6	Low	Supriya
Sprint-2	Training the system	USN-4	Model is trained with historical data of crude oil prices which contains the data of past 40 years.	10	Medium	Suruthi, Sneha
Sprint-2	Implementation	USN-5	The model is implemented to check its working and accuracy.	10	Medium	Sowjanya, Subhiksha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Classification	USN-6	Classify the data into training and testing data.	10	High	Supriya
Sprint-3	Prediction	USN-7	Predict the output where we will get prices of crude oil as output.	10	High	Suruthi
Sprint-4	Final Output	USN-8	On accurate prediction of crude oil prices which helps the investors to gain knowledge about the prices earlier which increases their revenue.	10	High	Sneha Sowjanya
Sprint-4	Controls and has overview of entire process	USN-9	The customer needs are checked and satisfied. Know their perception and working based on it.	5	Medium	Subhiksha
Sprint-4	Database	USN-10	All the past data are collected and stored for future reference.	5	Low	Supriya

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	7 Days	24 Oct 2022	29 Oct 2022	20	30 Oct 2022
Sprint-2	20	7 Days	31 Oct 2022	05 Nov 2022	20	06 Nov 2022
Sprint-3	20	7 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	7 Days	14 Nov 2022	19 Nov 2022	20	20 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)

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

Average velocity(AV)= 20/7=2.85

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.