

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID21967
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	8 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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	VIGNESHWARAN
Sprint-1	Email confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	5	High	SURYA
Sprint-1	Login	USN-3	As a user, I can register for the application through Gmail	10	Low	SARANKUMAR
Sprint-2	Input Necessary Details	USN-4	As a user, I can give Input Details to Predict Likelihood of crude oil	10	Medium	SANTHOSH KANNA
Sprint-2	Data pre-processing	USN-5	As a user, I can log into the application by entering email & password	10	High	SURYA
Sprint-3	Dashboard	USN-6	Transform raw data into suitable format for prediction.	8	High	SARANKUMAR
Sprint-3	Prediction of Crude oil price	USN-7	As a user, I can predict Crude oil using machine learning model.	12	Medium	VIGNESHWARAN
Sprint-4	Review	USN-8	As a user, I can give feedback of the application.	20	High	SURYA

**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		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	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)

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

## 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.

