

## Project Planning Phase

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

Date	7 November 2022
Team ID	PNT2022TMID44242
Project Name	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.	10	High	Sabitha C
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	10	High	Sivagnanam A V
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password.	15	High	Indhumathi T
Sprint-2	Input Necessary Details	USN-4	As a user, I can give Input Details to Predict Likelihood of crude oil	15	High	Venkatramanan K
Sprint-2	Data Pre-processing	USN-5	Transform raw data into suitable format for prediction.	15	High	Lackshmi Prabha E

Sprint-3	Prediction of Crude Oil Price	USN-6	As a user, I can predict Crude oil using a machine learning model.	20	High	Venkatramanan K
Sprint-3		USN-7	As a user, I can get accurate prediction of crude oil	5	Medium	Sivagnanam A V
Sprint-4	Review	USN-8	As a user, I can give feedback on the application.	20	High	Indhumathi T

#### 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	7 Nov 2022	13 Nov 2022	20	29 Oct 2022
Sprint-2	20	6 Days	9 Nov 2022	15 Nov 2022		
Sprint-3	20	6 Days	17 Nov 2022	22 Nov 2022		
Sprint-4	20	6 Days	22 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)

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

**Burndown Chart:**

## October / November 2022

October		November		
-	10/23 - 10/29	10/30 - 11/05	11/06 - 11/12	11/13 - 11/17

Project

Task

10/23  
1. Creation of webpage  
2. User Registration  
3. Login

10/30  
1. Required information  
for prediction given as  
input from user.  
2. Data Pre-processing

11/06  
1. Creating respective  
diagrams for price  
prediction of oil  
2. Predicted output is  
shown

11/13  
Forecasting and Regular  
update

Team ID: PNT2022TMID00041  
Crude oil price prediction