

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID52700
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.	10	High	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	10	High	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K
Sprint-1	Login	USN-3	As a user, I can register for the application through Facebook	15	High	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K
Sprint-2	Input	USN-4	As a user, I can give Input Details to Predict Likelihood of crude oil	15	High	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K
Sprint-2	Data pre-processing	USN-5	Transform raw data into suitable format for prediction.	15	High	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K
Sprint-3	Prediction of crude oil price	USN-6	As a user, I can predict Crude oil using machine learning model.	20	High	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K
Sprint-3		USN-7	As a user, I can get accurate prediction of crude oil	5	Medium	Kausik Subramaniyam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Review	USN-8	As a user, I can give feedback of the application	20	High	Kausik Subramaniam.G ,B.Darshini,Deveshwar.R, Shunmuga Sundaram.K

#### 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)

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

### **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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

### **Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>