

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

Date	23 October 2022
Team ID	PNT2022TMID22682
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	Data Collection	USN-1	Download Crude Oil Price Dataset	2	Medium	Kishore H
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Arun Pandian MR
Sprint-1		USN-3	Handling Missing Data	3	Medium	DhilipKumar KK
Sprint-1		USN-4	Feature Scaling	3	Low	Katheravan S
Sprint-1		USN-5	Data Visualization	3	Medium	Divakar M S
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Kishore H
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	DhilipKumar KK
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Arun Pandian MR
Sprint-2		USN-9	Initializing The Model	1	Medium	Katheravan S
Sprint-2		USN-10	Adding LSTM Layers	2	High	Kishore H
Sprint-2		USN-11	Adding Output Layers	3	Medium	DhilipKumar KK
Sprint-2		USN-12	Configure The Learning Process	4	High	Arun Pandian MR

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	2	Medium	Divakar M S
Sprint-2		USN-14	Model Evaluation	1	Medium	Arun Pandian MR
Sprint-2		USN-15	Save The Model	2	Medium	DhilipKumar KK
Sprint-2		USN-16	Test The Model	3	High	Kishore H
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	Katheravan S
Sprint-3		USN-18	Build Python Code	4	High	Arun Pandian MR
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	Divakar M S
Sprint-3		USN-20	Showcasing Prediction On UI	4	High	DhilipKumar KK
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	Kishore H
Sprint-4		USN-22	Train The ML Model On IBM	8	High	Arun Pandian MR
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	Kishore H

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	20	03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 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.

