

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

Date	23 October 2022
Team ID	PNT2022TMID22641
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	Aravinidh S
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Deepak Raja S
Sprint-1		USN-3	Handling Missing Data	3	Medium	Hari prasath M
Sprint-1		USN-4	Feature Scaling	3	Low	Gokul Krishna R
Sprint-1		USN-5	Data Visualization	3	Medium	Deepak Raja S
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Hari prasath M
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Aravinidh S
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Deepak Raja S
Sprint-2		USN-9	Initializing The Model	1	Medium	Hari prasath M J
Sprint-2		USN-10	Adding LSTM Layers	2	High	Gokul Krishna R
Sprint-2		USN-11	Adding Output Layers	3	Medium	Aravinidh S
Sprint-2		USN-12	Configure The Learning Process	4	High	Deepak Raja S

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

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.

