

Project Planning Phase

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

Team ID	PNT2022TMID44721
Project Name	Crude Oil Price Prediction

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	Dharmendhira G G Gokul K
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Dharmendhira G G
Sprint-1		USN-3	Handling Missing Data	3	Medium	Jebastin J Gokul K
Sprint-1		USN-4	Feature Scaling	3	Low	Dharmendhira G G Meenakshi S
Sprint-1		USN-5	Data Visualization	3	Medium	Gokul K Meenakshi S
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Dharmendhira G G Jebastin J
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Dharmendhira G G Meenakshi S Gokul K
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Jebastin J Meenakshi S
Sprint-2		USN-9	Initializing The Model	1	Medium	Dharmendhira G G
Sprint-2		USN-10	Adding LSTM Layers	2	High	Gokul K Jebastin J
Sprint-2		USN-11	Adding Output Layers	3	Medium	Dharmendhira G G
Sprint-2		USN-12	Configure The Learning Process	4	High	Dharmendhira G G

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	2	Medium	Dharmendhira G G
Sprint-2		USN-14	Model Evaluation	1	Medium	Gokul K Meenakshi S
Sprint-2		USN-15	Save The Model	2	Medium	Dharmendhira G G Gokul K
Sprint-2		USN-16	Test The Model	3	High	Dharmendhira G G Jebastin J Meenakshi S
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	Jebastin J Meenakshi S
Sprint-3		USN-18	Build Python Code	4	High	Dharmendhira G G Gokul K Meenakshi S
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	Gokul K Jebastin J
Sprint-3		USN-20	Showcasing Prediction On UI	4	High	Dharmendhira G G Gokul K Jebastin j Meenakshi S
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	Dharmendhira G G Gokul K Jebastin J Meenakshi S
Sprint-4		USN-22	Train The ML Model On IBM	8	High	Jebastin J Gokul K
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	Dharmendhira G G Jebastin J Meenakshi 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	7 Days	24 Oct 2022	30 Oct 2022	20	30 Oct 2022
Sprint-2	20	7 Days	31 Oct 2022	06 Nov 2022	20	06 Nov 2022
Sprint-3	20	7 Days	07 Nov 2022	13 Nov 2022	20	13 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.

