

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

Date	22 October 2022
Team ID	PNT2022TMID08579
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	Rojer
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Guru Prasath
Sprint-1		USN-3	Handling Missing Data	3	Medium	Jerome Johnis
Sprint-1		USN-4	Feature Scaling	3	Low	Manoj
Sprint-1		USN-5	Data Visualization	3	Medium	Harish
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Rojer
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Guru Prasath
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Jerome Johnis
Sprint-2		USN-9	Initializing The Model	1	Medium	Manoj
Sprint-2		USN-10	Adding LSTM Layers	2	High	Harish
Sprint-2		USN-11	Adding Output Layers	3	Medium	Rojer
Sprint-2		USN-12	Configure The Learning Process	4	High	Guru Prasath

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	2	Medium	Jerome Johnis
Sprint-2		USN-14	Model Evaluation	1	Medium	Manoj
Sprint-2		USN-15	Save The Model	2	Medium	Harish
Sprint-2		USN-16	Test The Model	3	High	Rojer
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	Guru Prasath
Sprint-3		USN-18	Build Python Code	4	High	Jerome Johnis
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	Manoj
Sprint-3		USN-20	Showcasing Prediction On UI	4	High	Harish
Sprint-4	Train The Model OnIBM	USN-21	Register For IBM Cloud	4	Medium	Rojer
Sprint-4		USN-22	Train The ML Model On IBM	8	High	Guru Prasath
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	Jerome Johnis

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		

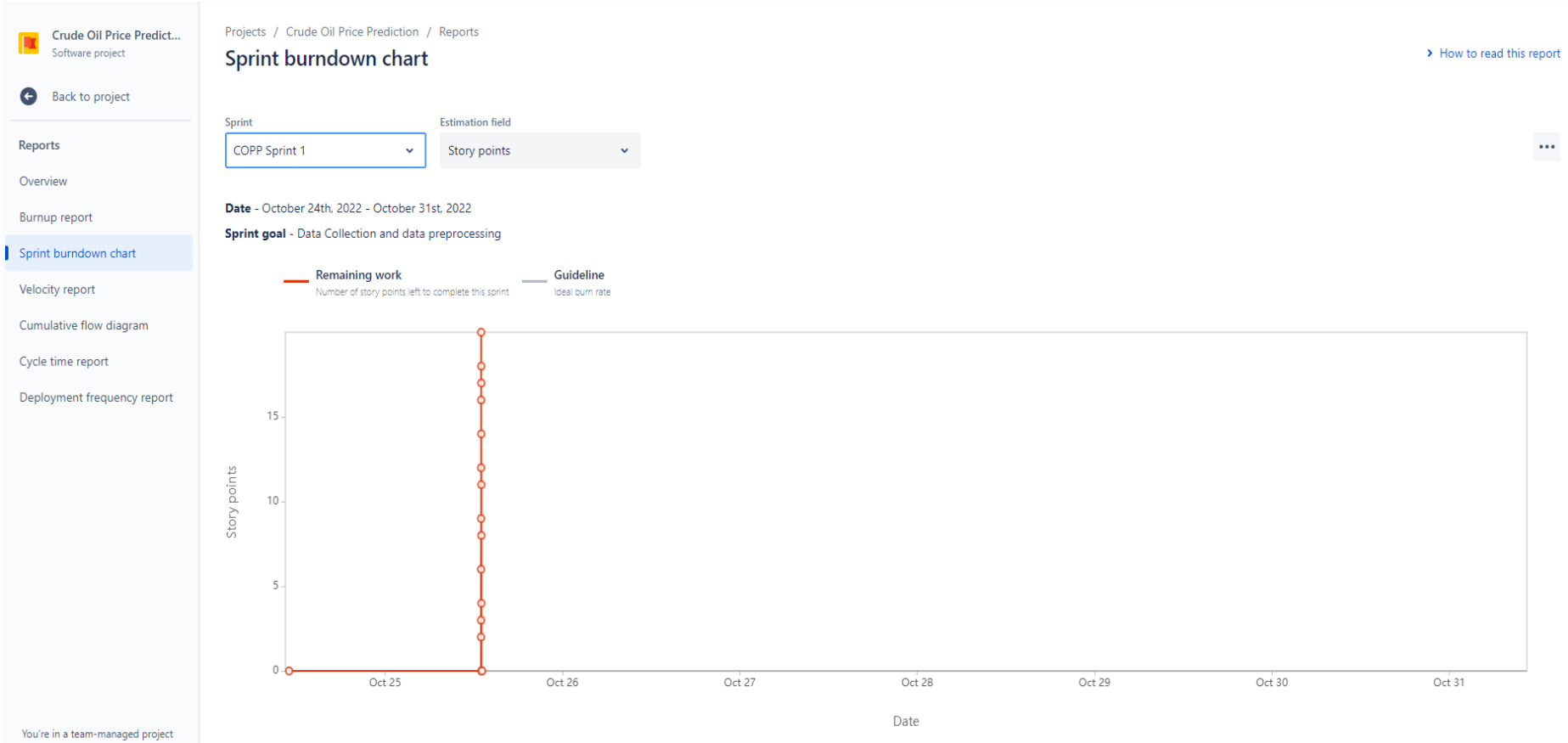
Velocity:

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)


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


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 suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



Velocity Report:

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Sprint burndown chart

Velocity report

Cumulative flow diagram

Cycle time report

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Velocity report

