

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

Date	28 October2022
Team ID	PNT2022TMID26696
Project Name	Crude Oil Price Prediction
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation(4Marks)

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	Madhumitha M
Sprint-1	Data Preprocessing	USN-2	Importing The Data set into Workspace	1	Low	Meena S
Sprint-1		USN-3	Handling Missing Data	3	Medium	Janani M
Sprint-1		USN-4	Feature Scaling	3	Low	Praveena A
Sprint-1		USN-5	Data Visualization	3	Medium	Madhumitha M
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Meena S
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Janani M
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Praveena A
Sprint-2		USN-9	Initializing The Model	1	Medium	Madhumitha M
Sprint-2		USN-10	Adding LSTM Layers	2	High	Meena S
Sprint-2		USN-11	Adding Output Layers	3	Medium	Janani M
Sprint-2		USN-12	Configure The Learning Process	4	High	Praveena A

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

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	6Days	24Oct2022	29Oct2022	20	29Oct2022
Sprint-2	20	6Days	31Oct2022	05Nov2022	20	03Nov2022
Sprint-3	20	6Days	07Nov2022	12Nov2022	20	10Nov2022
Sprint-4	20	6Days	14Nov2022	19Nov2022	20	17Nov2022

Velocity:

Imagine we have a 10-daysprint 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)

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



Burn down 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, burndown charts can be applied to any project containing measurable progress overtime.

