Project Planning Phase

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

Date	29 October 2022
Team ID	PNT2022TMID43298
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	Dharshini S
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Bhuvaneswari P
Sprint-1		USN-3	Handling Missing Data	3	Medium	Tharan S
Sprint-1		USN-4	Feature Scaling	3	Low	Anitha Petricia
Sprint-1		USN-5	Data Visualization	3	Medium	Dharshini S
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Tharan S
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Dharshini S
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Anitha Petricia
Sprint-2		USN-9	Initializing The Model	1	Medium	Bhuvaneswari P
Sprint-2		USN-10	Adding LSTM Layers	2	High	Bhuvaneswari P
Sprint-2		USN-11	Adding Output Layers	3	Medoum	Tharan S
Sprint-2		USN-12	Configure The Learning Process	4	High	Anitha Petricia

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-13	Train The Model	2	Medium	Dharshini S
Sprint-2		USN-14	Model Evaluation	1	Medium	Tharan S
Sprint-2		USN-15	Save The Model	2	Medium	Bhuvaneswari P
Sprint-2		USN-16	Test The Model	3	High	Anitha Petricia
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	Tharan S
Sprint-3		USN-18	Build Python Code	4	High	Tharan S
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	Dharshini S
Sprint-3		USN-20	Showcasing Prediction On UI	4	High	Bhuvaneswari P
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	4	Medium	Anitha Petricia
Sprint-4		USN-22	Train The ML Model On IBM	8	High	Dharshini S
Sprint-4		USN-23	Integrate Flask with Scoring End Point	8	High	Tharan 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	29 Oct 2022	1 Nov 2022	20	10 Nov 2022
Sprint-2	20	3 Days	2 Nov 2022	7 Nov 2022	20	13 Nov 2022
Sprint-3	20	6 Days	8 Nov 2022	10 Nov 2022	20	19 Nov 2022
Sprint-4	20	3 Days	11 Nov 2022	14 Nov 2022	20	22 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)

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

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.