Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID13501
Project Name	Project - 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	Gaudam E
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Karthick M
Sprint-1		USN-3	Handling Missing Data	3	Medium	Javith B
Sprint-1		USN-4	Feature Scaling	3	Low	Karthick M
Sprint-1		USN-5	Data Visualization	3	Medium	Gaudam E
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Kavin P
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Javith B
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Karthick M
Sprint-2		USN-9	Initializing The Model	1	Medium	Kavin P
Sprint-2		USN-10	Adding LSTM Layers	2	High	Gaudam E
Sprint-2		USN-11	Adding Output Layers	3	Medium	Javith B
Sprint-2		USN-12	Configure The Learning Process	4	High	Kavin P

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

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)

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

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.