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Project Planning Phase

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

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Date	22 October 2022
Team ID	PNT2022TMID46157
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	A.Ajithagani
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	A.Ajithagani
Sprint-1		USN-3	Handling Missing Data	3	Medium	A.Asha
Sprint-1		USN-4	Feature Scaling	3	Low	N.Anusa
Sprint-1		USN-5	Data Visualization	3	Medium	N.Anusa
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	D.Bakkiya Lakshmi
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	D.Bakkiya Lakshmi
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	A.Asha
Sprint-2		USN-9	Initializing The Model	1	Medium	N.Anusa
Sprint-2		USN-10	Adding LSTM Layers	2	High	A.Asha
Sprint-2		USN-11	Adding Output Layers	3	Medium	D.Bakkiya Lakshmi
Sprint-2		USN-12	Configure The Learning Process	4	High	A.Ajithagani

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

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