Project Planning Phase

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

Date	23 October 2022
Team ID	PNT2022TMID22706
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	Prawin N
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Nikil Prasath S
Sprint-1		USN-3	Handling Missing Data	3	Medium	Thirugnanasambantham N
Sprint-1		USN-4	Feature Scaling	3	Low	Sukant B
Sprint-1		USN-5	Data Visualization	3	Medium	Thirugnanasambantham N
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Prawin N
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Thirugnanasambantham N
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Sukant B
Sprint-2		USN-9	Initializing The Model	1	Medium	Nikil Prasath S
Sprint-2		USN-10	Adding LSTM Layers	2	High	Thirugnanasambantham N
Sprint-2		USN-11	Adding Output Layers	3	Medium	Prawin N
Sprint-2		USN-12	Configure The Learning Process	4	High	Sukant B

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

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