Project Planning Phase

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

Date	11 November 2022
Team ID	PNT2022TMID02141
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	Harish S
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Low	Kiran Kumar B
Sprint-1		USN-3	Handling Missing Data	3	Medium	Hariharan
Sprint-1		USN-4	Feature Scaling	3	Low	Kishore C
Sprint-1		USN-5	Data Visualization	3	Medium	Hariharan
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Harish S
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Hariharan
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Kishore C
Sprint-2		USN-9	Initializing The Model	1	Medium	Kiran Kumar B
Sprint-2		USN-10	Adding LSTM Layers	2	High	Hariharan
Sprint-2		USN-11	Adding Output Layers	3	Medium	Harish S
Sprint-2		USN-12	Configure The Learning Process	4	High	Kishore C

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

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	11 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	11 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	11 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.