Project Planning Phase
Project Planning - Sprint Planning

Date	18 October 2022
Team ID	PNT2022TMID53936
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	GOKULAKANNAN S
Sprint-1	Data Pre-processing	USN-2	Importing the Dataset into Workspace	1	Low	GOKULAKANNAN S
Sprint-1		USN-3	Handling missing data	3	Medium	GOKULAKANNAN S
Sprint-1		USN-4	Feature scaling	3	Low	ABISHUA
Sprint-1		USN-5	Data visualization	3	Medium	ABISHUA
Sprint-1		USN-6	Splitting data into train and test	4	High	GOKULAKANNAN S
Sprint-1		USN-7	Creating a dataset with sliding windows	4	High	GOKULAKANNAN S
Sprint-2	Model Building	USN-8	Importing the model building libraries	1	Medium	ABISHUA
Sprint-2		USN-9	Initializing the model building libraries	1	Medium	ABISHUA
Sprint-2		USN-10	Adding LSTM Layers	2	High	GOKULAKANNAN S
Sprint-2		USN-11	Adding output layers	3	Medium	BENNY RICHARD
Sprint-2		USN-12	Configure the learning process	4	High	GOKULAKANNAN S
Sprint-2		USN-13	Train the model	2	Medium	BENNY RICHARD

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-14	Model evaluation	1	Medium	KRISHNA SUNDAR
Sprint-2		USN-15	Save the model	2	Medium	ABISHUA
Sprint-2		USN-16	Test the model	3	High	GOKULAKANNAN S
Sprint-3	Application Building	USN-17	Create an HTML file	4	Medium	ABISHUA
Sprint-3		USN-18	Build python code	4	High	GOKULAKANNAN S
Sprint-3		USN-19	Run the app in local browser	4	Medium	ABISHUA
Sprint-3		USN-20	Showcasing prediction on UI	4	High	GOKULAKANNAN S
Sprint-4	Train the model on IBM	USN-21	Register for IBM cloud	4	Medium	GOKULAKANNAN S
Sprint-4		USN-22	Train the machine learning model on IBM Cloud	8	High	GOKULAKANNAN S
Sprint-4		USN-23	Integrate flask with scoring end point	8	High	GOKULAKANNAN 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	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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts