Project Planning Phase

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

Date	3 November2022
Team ID	PNT2022TMID38581
Project Name	Crude Oil Price Prediction
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule and Estimation (4Marks)

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	Kiruthika S
Sprint-1	Data Preprocessing	USN-2	Importing The Dataset into Workspace	1	Medium	Prathisha K
Sprint-1		USN-3	Handling Missing Data	3	Medium	Divya P
Sprint-1		USN-4	Feature Scaling	3	Low	Jeffri Megdalin J
Sprint-1		USN-5	Data Visualization	3	Medium	Kiruthika S
Sprint-1		USN-6	Splitting Data into Train and Test	4	High	Prathisha K
Sprint-1		USN-7	Creating A Dataset with Sliding Windows	4	High	Divya P
Sprint-2	Model Building	USN-8	Importing The Model Building Libraries	1	Medium	Jeffri Megdalin J
Sprint-2		USN-9	Initializing The Model	1	Medium	Kiruthika S
Sprint-2		USN-10	Adding LSTM Layers	2	High	Prathisha K
Sprint-2		USN-11	Adding Output Layers	3	Medium	Divya P

Sprint-2		USN-12	Configure The Learning Process	4	High	Jeffri Megdalin J
Sprint	Functional Requirement(Epic)	User Story N umber	User Story/Task	Story Points	Priority	TeamMembers
Sprint-2		USN-13	Train The Model	2	Medium	Kiruthika S
Sprint-2		USN-14	Model Evaluation	1	Medium	Prathisha K
Sprint-2		USN-15	Save The Model	2	Medium	Divya P
Sprint-2		USN-16	Test The Model	3	High	Jeffri Megdalin J
Sprint-3	Application Building	USN-17	Create An HTML File	4	Medium	Kiruthika S
Sprint-3		USN-18	Build Python Code	4	High	Prathisha K
Sprint-3		USN-19	Run The App in Local Browser	4	Medium	Divya P
Sprint-3		USN-20	Showcasing Prediction On UI	5	High	Jeffri Megdalin J
Sprint-4	Train The Model On IBM	USN-21	Register For IBM Cloud	5	Medium	Divya P
Sprint-4		USN-22	Train The ML Model On IBM	6	High	Prathisha K
Sprint-4		USN-23	Integrate Flask with Scoring End Point	6	High	Jeffri Megdalin J

Project Tracker, Velocity & Burn down 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	6Days	24Oct2022	29Oct2022	20	29Oct2022
Sprint-2	20	6Days	31Oct2022	05Nov2022	20	03Nov2022
Sprint-3	17	6Days	07Nov2022	12Nov2022	17	10Nov2022
Sprint-4	17	6Days	14Nov2022	19Nov2022	17	17Nov2022

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) unit (story points per day)

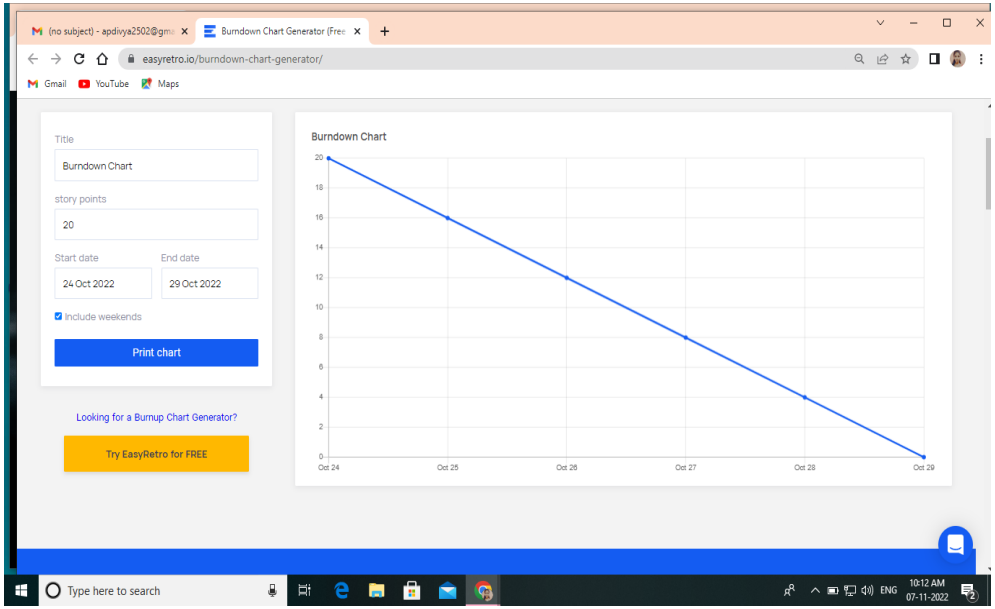
$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Sprint 1 AV = sprint duration / velocity = 20/6 = 3.33 **Sprint 3** AV = sprint duration / velocity = 20/6 = 3.33

Sprint 2 AV = sprint duration / velocity = 17/6 = 2.6 **Sprint 4**AV = sprint duration / velocity = 17/6 = 2.6

Burn down 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 overtime.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story points
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Start date
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End date
29 Oct 2022
Include weekends
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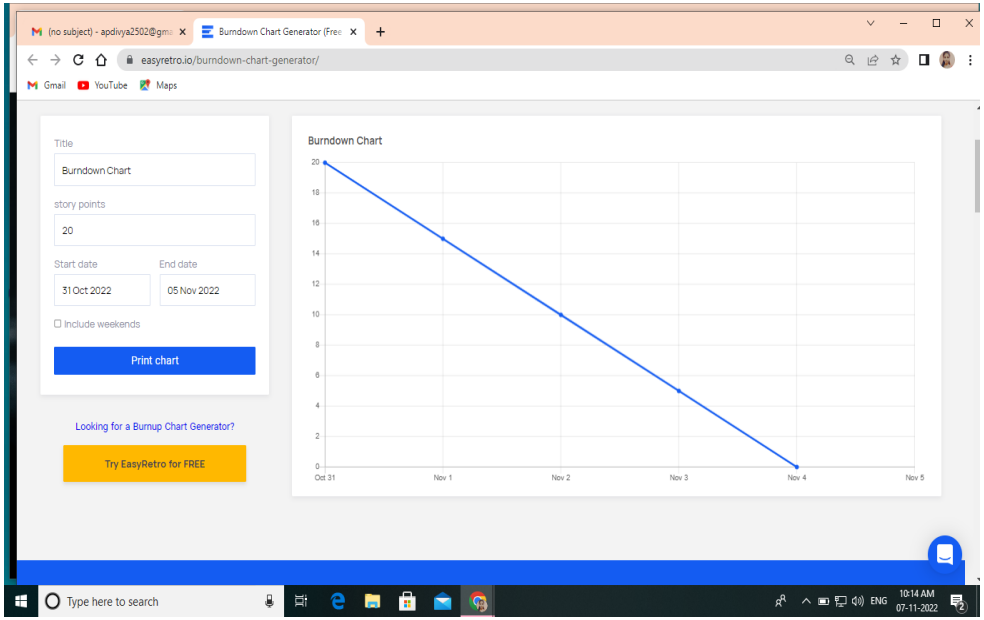
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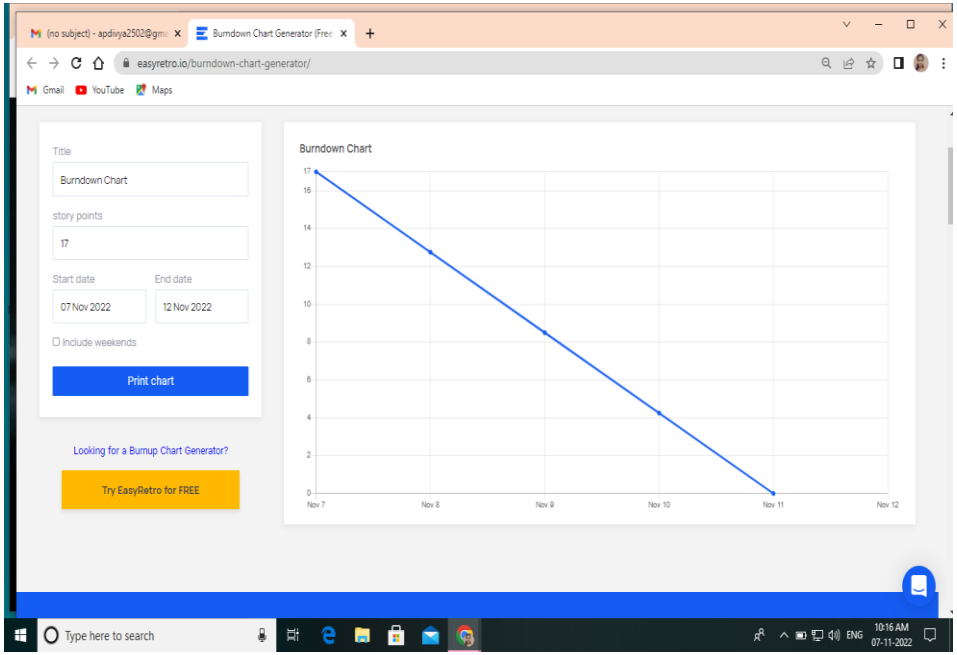
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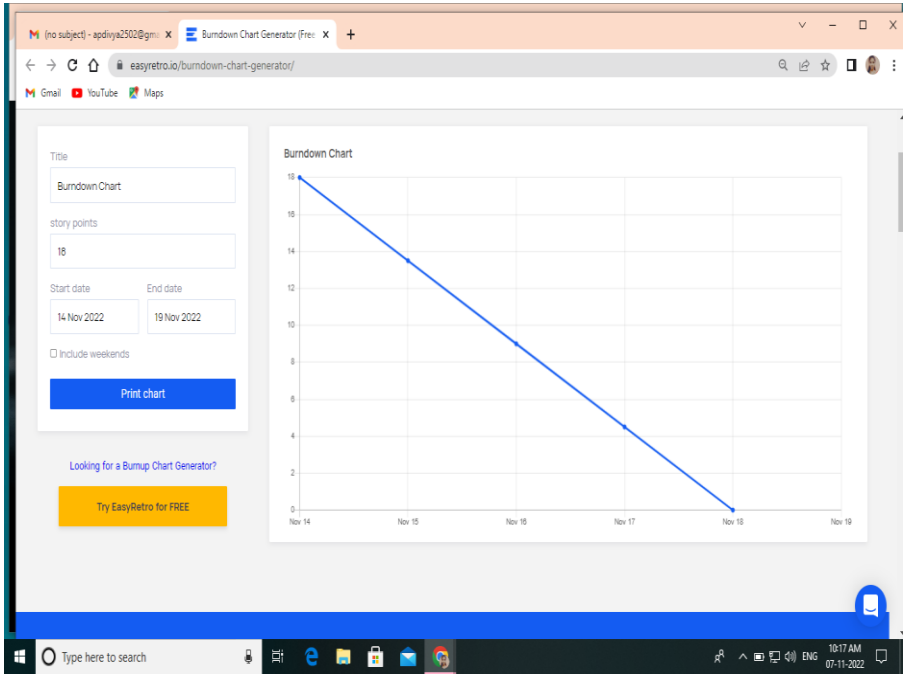
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