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

Team ID	PNT2022TMID47316
Project Name	Data Analytics – Retail Store Stock Inventory Analysis
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	As a user, I can collect the dataset through the given dataset link.	2	High	Madhumitha, Abisha,
Sprint-1	Load the Dataset	USN-2	As a user, I can load the dataset with the tool IBM Cognos Analytics.	1	High	Deepika, Thiruthamizhi
Sprint-2	Data Preparation	USN-3	As a user, I can prepare the dataset to improve the charts.	2	Low	Abisha Deepika
Sprint-2	Format the data	USN-4	As a user, I can format the data.	2	Medium	Madhumitha, Thiruthamizhi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Data Exploration	USN-5	As a user, I can explore the data for the given charts.	1	High	Deepika, Madhumitha, Thiruthamizhi Abisha
Sprint-4	Dashboard	USN-6	As a user, I can create a dashboard from the prepared dataset for the given chart.	5	High	Deepika, Madhumitha, Thiruthamizhi Abisha
Sprint-4	Develop a HTML Webpage for the Dashboard	USN-7	As a user, I can access the dashboard via a hyperlink on a webpage.	5	High	Deepika, Madhumitha, Thiruthamizhi Abisha

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	6	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	15	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 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)

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

Sprint	Total story Points	Duration	Average Velocity
Sprint-1	6	6 Days	6/6=1
Sprint-2	15	6 Days	15/6=2.5

Sprint-3	20	6 Days	20/6=3.33
Sprint-4	20	6 Days	20/6=3.33
Total	**61**	**24 Days**	**61/24=2.54**

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