Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID53270
Project Name	Project - A new hint to transportation - Analysis of the NYC bike share system
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	Download Dataset	USN-1	As an analyst, I will download the Citibike dataset for the year 2018 from IBM resources for	4	Medium	Shreya and Sagana
Sprint-1	Load dataset on cognos	USN-2	As an analyst, I will upload the dataset on IBM congas	1	Medium	Khushan and Ajay
Sprint-2	Data Preparation	USN-3	As an analyst , I will prepare the data for analysis by handling the missing outliers	7	Medium	Sagana and Khushan
Sprint-2	Analysis of data	USN-4	As an analyst, I perform Exploratory Data Analysis on the filtered dataset to identify patterns and relationships between various features present.	8	High	Shreya and Ajay

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Visualization	USN-5	As an analyst, I will create various visualizations using IBM Cognos based on the knowledge obtained at the end of the EDA process.	10	High	Shreya and Khushan
Sprint-3	Visualization	USN-6	As an analyst, I will create a dashboard with the created visualizations to supplement business insights during the decision-making process at Citi.	10	High	Sagana and Ajay
Sprint-4	Visualization	USN-7	As an analyst, I will apply predictive analytics and add additional features to enhance visualizations	5	Medium	Shreya and Sagana
Sprint-4	Registration	USN-8	As a user, I will register for the application by entering my email and password, and confirming my password.	5	Low	Khushan and Ajay

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	5	6 Days	24 Oct 2022	29 Oct 2022	5	29 Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	20	
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	40	
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	50	

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	Average Velocity(AV)
Sprint-1	0.833
Sprint-2	2.500
Sprint-3	3.333
Sprint-4	1.666

Burndown Chart:

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