Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID14605
Project Name	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	Data preparation	USN-1	As an analyst. I can extract the Citi-bikedataset for the year 2018	5	High	Jithenthiriya C K Iswarya M
Sprint-1		USN-2	As an analyst, I upload the dataset into Cognosplatform.	6	High	Swetha S Aarthy S
Sprint-1	Data Cleaning	USN-3	As an analyst, I remove the null and duplicate values	4	Medium	Jithenthiriya C K Iswarya M
Sprint-1		USN-4	As an analyst, I identify patterns and relationships between the various attributes	5	High	Swetha S Aarthy S
Sprint-2	Feature Engineering	USN-5	I made computations on the different attribute to find the new attribute value.	4	Medium	Jithenthiriya C K Iswarya M
Sprint-2		USN-6	I have dropped few attributes from the data set which are not needed.	6	High	Swetha S Aarthy S
Sprint-2	Visualization	USN-7	As an analyst, I visualize the data and infer the knowledge in Cognos platform.	10	High	Jithenthiriya C K Iswarya M
Sprint -3		USN-8	As an analyst, I made visualization charts of the data using python	10	High	Swetha S Aarthy S
Sprint -3	Dashboard	USN-9	As an analyst, I create a dashboard with the created visualizations to supplement business insights during the decision-making process at Citi dataset.	10	High	Jithenthiriya C K Iswarya M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Prediction	USN-10	To predict the most common user type ie customers and subscribers using various machine learning algorithms.	10	High	Swetha S Aarthy S
Sprint-4	Registration	USN-11	As a user, I can register and login in the application	10	High	Jithenthiriya C K Iswarya M Swetha S Aarthy 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	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)

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

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.