

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID17752
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-bike dataset for the year 2018	5	High	B.Mahasivapriya K.Lekhasri
Sprint-1		USN-2	As an analyst,I upload the dataset into cognos platform.	6	High	M.Gayathri S.Nishaa
Sprint-1	Data Cleaning	USN-3	As an analyst, I remove the null and duplicate values	4	Medium	B.Mahasivapriya K.Lekhasri
Sprint-1		USN-4	As an analyst, I identify patterns and relationships between the various attributes	5	High	M.Gayathri S.Nishaa
Sprint-2	Feature Engineering	USN-5	I made computations on the different attribute to find the new attribute value.	4	Medium	B.Mahasivapriya K.Lekhasri
Sprint-2		USN-6	I have dropped few attributes from the data set which are not needed.	6	High	M.Gayathri S.Nishaa
Sprint-2	Visualization	USN-7	As an analyst, I visualize the data and infer the knowledge in cognos platform.	10	High	B.Mahasivapriya K.Lekhasri
Sprint -3		USN-8	As an analyst, I made visualization charts of the data using python	10	High	M.Gayathri S.Nishaa
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	B.Mahasivapriya K.Lekhasri

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	M.Gayathri S.Nishaa
Sprint-4	Registration	USN-11	As a user, I can register and login in the application	10	High	B.Mahasivapriya K.Lekhasri M.Gayathri S.Nishaa

#### 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)

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

**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.

