

## Project Planning Phase

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

Date	06 November 2022
Team ID	PNT2022TMID32188
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	Data Preparation	USN-1	As an analyst, I filter and extract the Citi-bike data for the year 2018 from the given bucket of datasets	4	Medium	Suganth, Boobesh
Sprint-1	Data Preparation	USN-2	As an analyst, I upload the filtered dataset to IBM Cognos.	1	Medium	Dhatchayan, Nafreen Banu
Sprint-2	Data Preparation	USN-3	As an analyst, I can prepare the data for analysis by handling missing values and outliers	7	Medium	Suganth, Nafreen Banu
Sprint-2	Analysis	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	Boobesh, Dhatchayan
Sprint-3	Visualization	USN-5	As an analyst, I create various visualizations using IBM Cognos based on the knowledge obtained at the end of the EDA process	10	High	Suganth, Dhatchayan
Sprint-3	Visualization	USN-6	As an analyst, I create a dashboard with the created visualizations to supplement business insights during the decision-making process at Citi.	10	High	Boobesh, Nafreen Banu
Sprint-4	Visualization	USN-7	As an analyst, I apply predictive analytics and additional features to enhance visualizations	5	Medium	Suganth, Boobesh

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Registration	USN-8	As a user, I can register for the application by entering my email and password, and confirming my password.	5	Low	Dhatchayan, Nafreen Banu

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

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

<b>Sprint</b>	<b>Average Velocity</b>
Sprint-1	0.833
Sprint-2	2.500
Sprint-3	3.333
Sprint-4	1.666