

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID35522
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 filter and extract the Citi-bike data for the year 2018 from the given bucket of datasets.	4	Medium	Aadithya, Asmitha
Sprint-1	Data Preparation	USN-2	As an analyst, I upload the filtered dataset to IBM Cognos.	1	Medium	Ramanan, Rohit
Sprint-2	Data Preparation	USN-3	As an analyst, I can prepare the data for analysis by handling missing values and outliers	7	Medium	Aadithya, Ramanan
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	Asmitha, Rohit
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	Aadithya, Rohit
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	Asmitha, Ramanan
Sprint-4	Visualization	USN-7	As an analyst, I apply predictive analytics and additional features to enhance visualizations	5	Medium	Aadithya, Ramanan
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	Asmitha, Rohit

**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	25 Oct 2022	30 Oct 2022	5	30 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)

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

### **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.

<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>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

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