

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

Date	18 October 2022
Team ID	PNT2022TMID22565
Team Lead	Mahesh S M
Team Members	Pranav M Kabilraj S Robert Samuel J
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, find and extract the Citi-bike data for the year 2018 from the given bucket list of datasets.	3	Medium	Mahesh S M
Sprint-1	Data Preprocessing	USN-2	As an analyst, upload the extracted dataset to IBM Cognos platform.	1	Medium	Pranav M
Sprint-1	Data Preprocessing	USN-3	As an analyst, understand the dataset working with and give a brief overview of what each feature represents.	1	Low	Kabilraj S
Sprint-2	Data Preprocessing	USN-4	As an analyst, prepare the data for analysis by handling missing values.	2	Medium	Robert Samuel J
Sprint-2	Analysis	USN-5	As an analyst, perform Exploratory Data Analysis on the filtered dataset to identify patterns and relationships between various features present.	3	High	Mahesh S M, Pranav M
Sprint-2	Visualization	USN-6	As an analyst, create 5 various visualizations charts using IBM Cognos	10	High	Kabilraj S, Robert Samuel J

Sprint-3	Visualization	USN-7	As an analyst, creation of a dashboard by the created Visualizations charts to understand business insights making it a interactive dashboard.	10	High	Pranav M, Kabilraj S
Sprint-3	Visualization	USN-8	As an analyst, prepare report and story by applying predictive analytics to enhance visualizations chart interactions.	8	Low	Mahesh S M, Robert Samuel J
Sprint-3	Exporting	USN-9	As an analyst, export the analytics to share the work to showcase to others.	2	Medium	Mahesh S M, Kabilraj S
Sprint-4	Testing	USN-10	As an analyst to perform an user acceptance testing.	3	Medium	Mahesh S M, Pranav M
Sprint-4	Delivery	USN-11	As an analyst to prepare project report, demo video, ensuring all project deliverables are submitted and available.	5	High	Mahesh S M, Robert Samuel
Sprint-4	Registration	USN-12	As a user, should view the web application of the interactive dashboard.	2	Low	Pranv M, Robert Samuel J

#### 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	29Oct 2022
Sprint-2	15	6 Days	31 Oct 2022	05 Nov 2022	15	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	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)

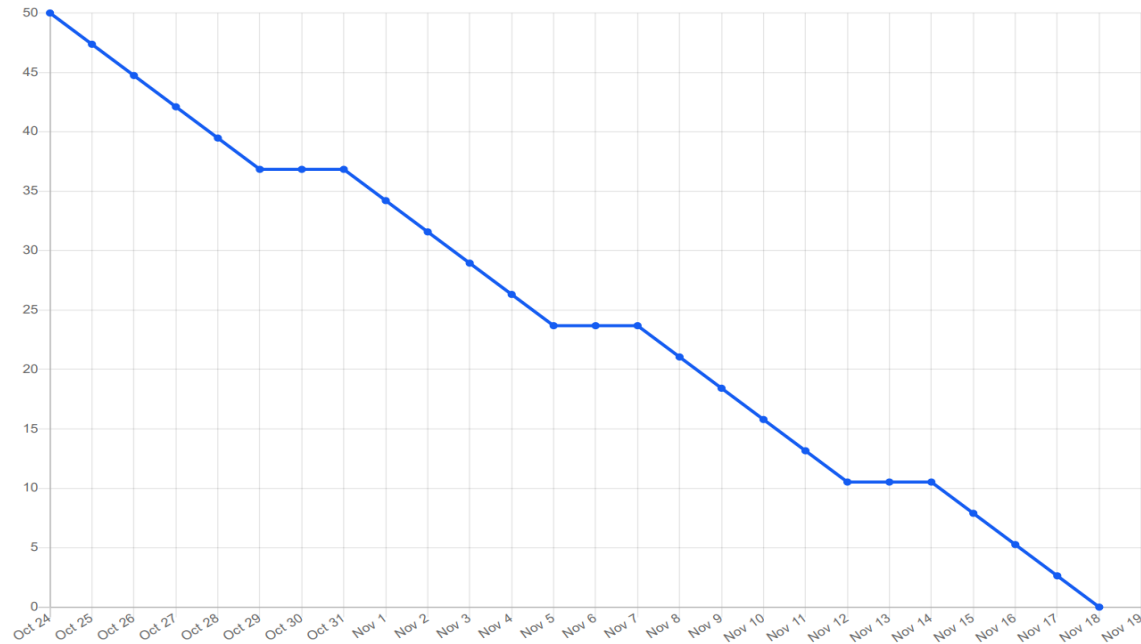
$$AV = \text{Sprint duration} / \text{Velocity}$$

$$AV = 2.083$$

## 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.

Burndown Chart



<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>