

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID13629
Project Name	Traffic and Capacity Analytics for Major Ports
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G
Sprint 3	Working with dataset	USN-4	As a user,I can calculate the dataset	2	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G

Sprint 2	Data Visualization	USN-5	The Traffic capacity datas are graphically visualized and to know available resources.	4	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G
Sprint-3	Dashboard	USN-6	As a user,I can view my dashboard and can perform traffic capacity and analytics for major ports.	3	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G
Sprint-4	Predictive model	USN-7	The predictive analysis on the data is performed by modelling the predictive model.	3	High	Subalakshmi.S Thamaraichandra.S Muthukarthika.M Saranya.G

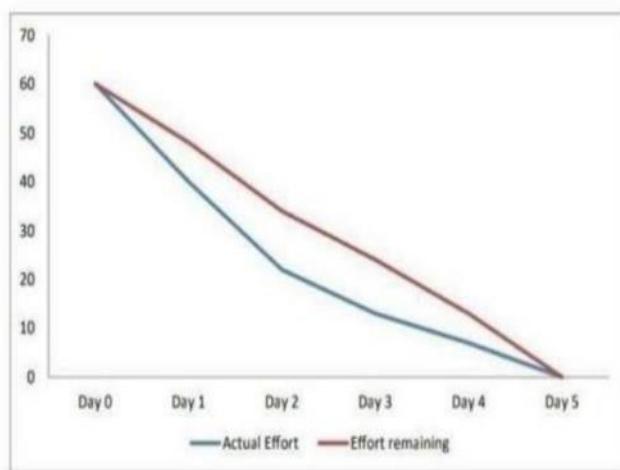
#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	9	6 Days	24 Oct 2022	29 Oct 2022	9	29 Oct 2022
Sprint-2	13	6 Days	31 Oct 2022	05 Nov 2022	13	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	15	6 Days	14 Nov 2022	19 Nov 2022	15	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.

<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>