

## Project Planning Phase

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

Date	19 November 2022
Team ID	PNT2022TMID45971
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning

## Sprint Delivery Plan

### 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	8	6 Days	24 Oct 2022	29 Oct 2022	6	29 Oct 2022
Sprint-2	14	6 Days	31 Oct 2022	05 Nov 2022	12	05 Nov 2022
Sprint-3	16	6 Days	07 Nov 2022	12 Nov 2022	11	12 Nov 2022
Sprint-4	12	6 Days	14 Nov 2022	19 Nov 2022	12	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)

For Sprint-1 the Average Velocity (AV) is:  $AV = \text{Sprint Duration} / \text{velocity} = 8 / 6 = 1.3V$

For Sprint-2 the Average Velocity (AV) is:  $AV = \text{Sprint Duration} / \text{velocity} = 14 / 6 = 2.3V$

For Sprint-3 the Average Velocity (AV) is:  $AV = \text{Sprint Duration} / \text{velocity} = 16 / 6 = 2.6V$

For Sprint-4 the Average Velocity (AV) is:  $AV = \text{Sprint Duration} / \text{velocity} = 12 / 6 = 2.0V$

TOTAL TEAM AVERAGE VELOCITY = 2.08

**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.

