

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

Date	18 October 2022
Team ID	PNT2022TMID30129
Project Name	Virtual eye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	8 Marks

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	I can register for the application by entering my phone number.	1	High	Gokulram S B
		USN-2	I will receive confirmation OTP once I have registered for the application.	2	Low	DeebakRaaj V P S
		USN-3	I can also register for the application through Gmail	2	Medium	Gopinath S B
	Login	USN-4	I can login into the application by entering email or phone number & password.	1	High	Barath R
		USN-5	In prediction page, the data uploaded will help the user to detect the drowning movements	2	Medium	Gopinath S B

Sprint-1	Dataset collection	USN-6	The dataset collected will give high accuracy on the drowning details of the person.	2	High	Barath R
<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-2	Data Pre-processing	USN-7	The dataset is extracted and is used to train the model.	4	High	Gokulram S B
	Train the model	USN-8	We will train the model.	8	High	DeebakRaaj V P S
		USN-9	We will test the model.	6	High	Gopinath S B
Sprint-3	Detection	USN-10	The tested model will be loaded.	3	High	Barath R
		USN-11	To identify the person by collecting real-time data.	5	Medium	Gokulram S B
		USN-12	The data collected at present is checked with the pre-fed data.	8	High	DeebakRaaj V P S
Sprint-4	Alert	USN-13	When the abnormal movement is detected the system will ring an alarm to notify the lifeguard to rescue the person.	7	High	Gopinath S B
		USN-14	We will be able to detect the drowning person.	3	Medium	Barath R

Sprint-4	Logout	USN-15	User can logout of the application.	2	Low	DeebakRaaj V P S
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**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	10	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	18	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	16	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	12	6 Days	14 Nov 2022	19 Nov 2022		

**Velocity:**

For Sprint-1 the Average Velocity (AV) is:

$$AV = \text{Sprint Duration} / \text{velocity} = 10 / 6 = 1.6$$

For Sprint-2 the Average Velocity (AV) is:

$$AV = \text{Sprint Duration} / \text{velocity} = 18 / 6 = 3.0$$

For Sprint-3 the Average Velocity (AV) is:

$$AV = \text{Sprint Duration} / \text{velocity} = 16 / 6 = 2.6$$

For Sprint-4 the Average Velocity (AV) is:

$$AV = \text{Sprint Duration} / \text{velocity} = 12 / 6 = 2.0$$

### BURNDOWN CHART

