

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

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 the phone number, email.	2	High	SWETHA E
		USN-2	I will receive confirmation OTP once I have registered for the application.	1	Low	HARSHINI J
	Login	USN-3	I can login into the application by entering email or phone number & password.	2	High	RAJALAKSHMI G
		USN-4	In prediction page, the data uploaded will help the user to detect the drowning movements	2	Medium	OINDRILLA K J

Sprint-1	Dataset collection	USN-5	The dataset collected will give high accuracy on the drowning details of the person.	2	High	OINDRILLA K J
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Data Preprocessing	USN-6	The dataset is extracted and is used to train the model.	4	High	SWETHA E
	Train the model	USN-7	We will train the model.	8	High	RAJALAKSHMI G
		USN-8	We will test the model.	6	High	OINDRILLA K J
Sprint-3	Detection	USN-9	The tested model will be loaded.	3	High	HARSHINI J
		USN-10	To identify the person by collecting real time data.	5	Medium	RAJALAKSHMI G
		USN-11	The data collected at present is checked with the pre-fed data.	8	High	OINDRILLA K J
Sprint-4	Alert	USN-12	When the abnormal movement is detected the system will ring an alarm to notify the lifeguard to rescue the person.	7	High	HARSHINI J
		USN-13	We will be able to detect the drowning person.	3	Medium	SWETHA E

Sprint-4	Logout	USN-14	User can logout of the application.	2	Low	RAJALAKSHMI G
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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

