

## Project Planning Phase

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

Date	08 November 2022
Team ID	PNT2022TMID13132
Project Name	Project - Real-Time River Water Quality Monitoring and Control System
Maximum Mark	8 Marks

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

To create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Member
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	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B
Sprint-2	Registration	USN-3	As a user, I can register for the application through phone number	2	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B
Sprint-2	User interface	USN-4	Professional responsible for user requirements & needs	2	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B

Sprint-3	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B
Sprint-3	Dashboard	USN-6	As a user, I must receive any updates or pop ups in my dashboard	2	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B
Sprint-4	Details	USN-7	As a user, I should get notification about the progress and any updates via email or sms	1	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B
Sprint-4	Privacy	USN-8	The developed application should be secure for the users	2	High	DHATCHAYANI K NANCY S NIVETHA P SOWMYA B

#### 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	20	2 Days	06 Nov 2022	08 Nov 2022	20	09 Nov 2022
Sprint	20	2 Days	09 Nov 2022	11 Nov 2022	20	12 Nov 2022
Sprint	20	2 Days	12 Nov 2022	14 Nov 2022	20	15 Nov 2022
Sprint	20	2 Days	15 Nov 2022	17 Nov 2022	20	18 Nov 2022

**- Real-Time River Water Quality Monitoring and Control System -**

**PNT2022TMID13132 Team Leader: DHATCHAYANI K Team Members:**

**NANCY S**

**NIVETHA P**

**SOWMYA B**

## 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)

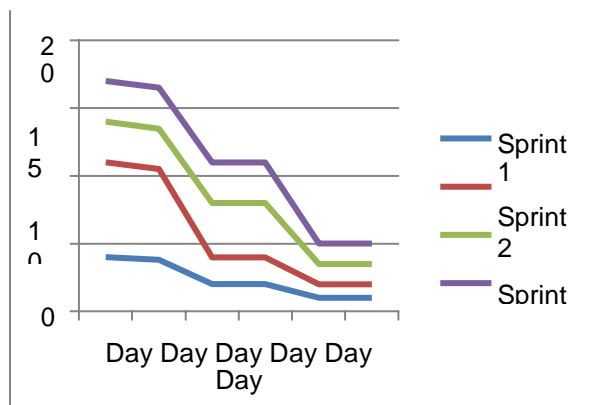
$$AV = \text{sprint duration} / \text{velocity}$$

$$AV = 6/10 = 0.6 \text{ burndown}$$

## 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.

## SPRINT SCHEDULE CHART:



## SPRINT BURNDOWN CHART:

