

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

Date	18 October 2022
Team ID	PNT2022TMID52890
Project Name	Project – Real-Time River Water Quality Monitoring and Control
Maximum Marks	8 Marks

Jira Software was used to construct the product backlog, sprint schedule, estimation weights, the roadmaps, and compute the burndown chart for the purpose of tracking velocity

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

Use the below template to create product backlog and sprint schedule

<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-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	5	High	Balambal S
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	3	Medium	Daphnie Ritika R
Sprint-1		USN-3	As a user, I can register for the application through Instagram/Reddit	3	Medium	Dhanalakshmi M
Sprint-1		USN-4	As a user, I can register for the application through Gmail	5	High	Dhanalakshmi M
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	5	High	Daphnie Ritika 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>
	Dashboard	USN-6	As a user, I can log in to the application and access the details mentioned in the dashboard including my last login details	5	High	Dhivya S
Sprint-2	Registration	USN-7	As a user, I can register for the website by entering my email, password and confirming my password	5	High	Dhivya S
Sprint-2		USN-8	As a user, I will receive confirmation email once I have registered for the application	3	Medium	Daphnie Ritika R
Sprint-2		USN-9	As a user, I can register for the application through Instagram/Reddit	5	High	Dhivya S
Sprint-2		USN-10	As a user, I can register for the application through Gmail	3	Medium	Balambal S
Sprint-2	Login	USN-11	As a user, I can login to the website by entering my email/social media account	2	Low	Dhanalakshmi M
Sprint-2	Dashboard	USN-12	As a user, I can login to the website and access my dashboard	2	Low	Balambal S
Sprint-3	App Security Issues	USN-13	As a user, I can report any issues with logging in or account hacking to the executive	5	High	Dhanalakshmi M
Sprint-3	Data Read and Log	USN-14	As a user, I can report any issues with irrelevant data being logged into the app	8	High	Dhivya S
Sprint-4		USN-15	As a user, I can report any issues in modification of data like discontinuity to the admin as data gets logged into the app	5	Medium	Daphnie Ritika R
Sprint-3		USN-16	As a user, I can report any issues with unwanted data log into the website	5	Medium	Daphnie Ritika R
Sprint-3	App Operation Issues	USN-17	As a user, I can report any frozen screen/frozen data read issues while using the app	3	Medium	Balambal S

<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-4		USN-18	As a user, I can report any dysfunction/malfunction in the control options in the app	5	High	Dhanalakshmi M
Sprint-4	App Visualization Issues	USN-19	As a user, I can report any missing information/faulty data visualizations	5	Medium	Dhivya S
Sprint-4	Account Misuse/Phishing Issue	USN-20	As a user, I can report any unsolicited and confidential requests made using the service provider's name	5	High	Balambal S

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

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
Sprint-1	26	6 Days	24 Oct 2022	29 Oct 2022	26	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	21	6 Days	07 Nov 2022	12 Nov 2022	21	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	18 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

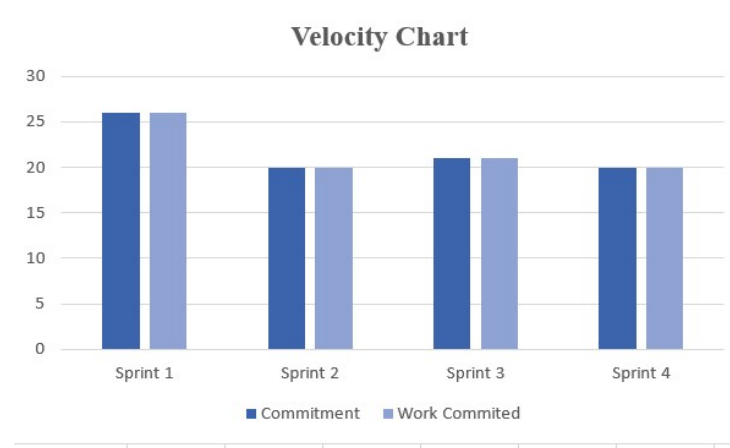
Sprint duration is six days for the project

$$AV (\text{Sprint 1}) = 26/6 = 4.33$$

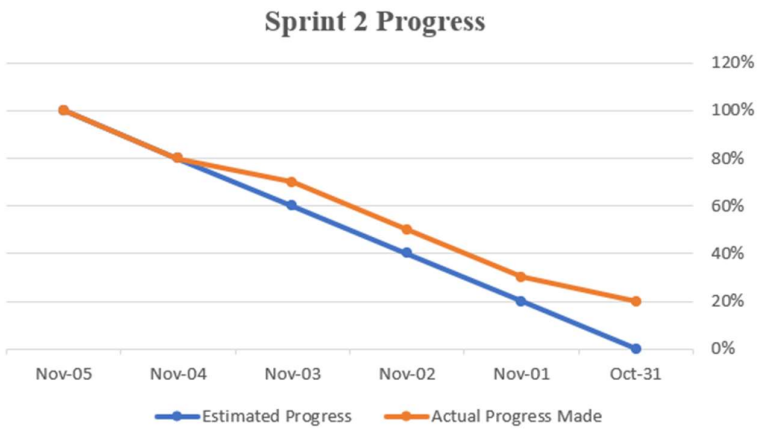
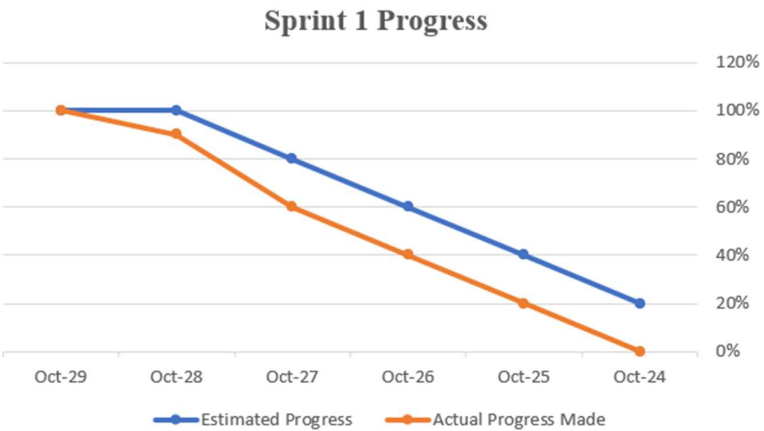
$$AV (\text{Sprint 2}) = 20/6 = 3.33$$

$$AV (\text{Sprint 3}) = 21/6 = 3.5$$

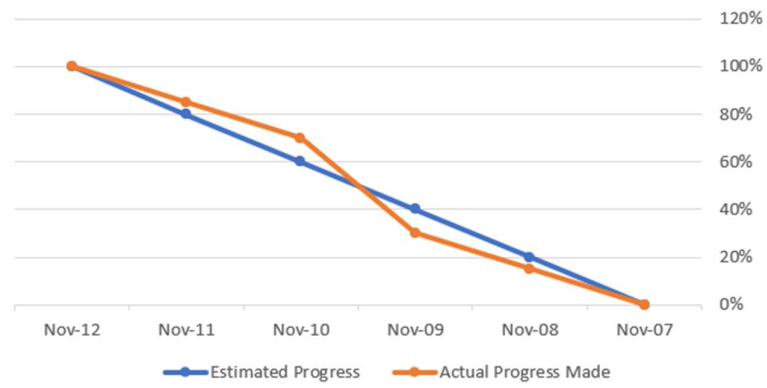
$$AV (\text{Sprint 4}) = 20/5 = 4$$



**Burndown Chart:**



### Sprint 3 Progress



### Sprint 4 Progress

