

## Project Planning Phase

### Sprint Schedules (Product Backlog, Sprint Planning, Stories, Story points)

Date	25.10.2022
Team ID	PNT2022TMID04798
Project Name	Project – Containment Zone Alerting Application
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
<b>SPRINT-1</b>	<b>Registration</b>	USN-1	<b>USER:</b> I can register for the application by entering my email and password	3	High	Ashok Aswin BhupeshKumar Daranya
		USN-2	<b>USER:</b> I will receive a confirmation email once I have registered for the application	2	High	Ashok Aswin BhupeshKumar Daranya
	<b>Login</b>	USN-3	<b>USER:</b> I can log into the application by entering my email & password	3	High	Ashok Aswin BhupeshKumar Daranya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
<b>SPRINT-2</b>	<b>Dashboard</b>	USN-4	<b>USER:</b> I need to give permission to access my location	5	High	Ashok Aswin BhupeshKumar Daranya
		USN-5	<b>USER:</b> I can view the map with the containment zones	5	High	Ashok Aswin BhupeshKumar Daranya
	<b>Service</b>	USN-6	<b>ADMIN:</b> I need to update the containment zones.	5	High	Ashok Aswin BhupeshKumar Daranya

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
<b>SPRINT-3</b>	<b>Service</b>	USN-7	<b>ADMIN:</b> I need to differentiate the containment zones based on the intensity of infection.	3	Medium	Ashok Aswin BhupeshKumar Daranya
		USN-8	<b>ADMIN:</b> I need to provide precautionary measures when they travel.	3	Medium	Ashok Aswin BhupeshKumar Daranya

		USN-9	<b>ADMIN:</b> I need to provide information about the nearby hospitals	3	Low	Ashok Aswin BhupeshKumar Daranya
<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>
<b>SPRINT-4</b>	<b>Service</b>	USN-10	<b>ADMIN:</b> I need to alert the user when they enter the containment zone through email or SMS	5	High	Ashok Aswin BhupeshKumar Daranya
		USN-11	<b>ADMIN:</b> I need to provide medical recommendations by collaborating with hospitals.	3	Low	Ashok Aswin BhupeshKumar Daranya
	<b>Data collection</b>	USN-12	<b>ADMIN:</b> I need to store user details on the cloud	5	High	Ashok Aswin BhupeshKumar Daranya
		USN-13	<b>ADMIN:</b> I need to collect details about covid-19 cases from verified sources	5	High	Ashok Aswin BhupeshKumar Daranya

**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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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)

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

### Burndown Chart:

A burndown 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.