

## Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID22391
Project Name	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 Member
Sprint-1	Registration	USN – 1	User: I can register for the application by entering my email, password, and confirming my password.	4	High	Vishnu
		USN – 2	User: I will receive confirmation email once I have registered for the application.	3	High	Vishnu
		USN – 3	User: I can register for the application through Gmail.	3	Medium	Aravind Kumar
		USN – 4	User: I will receive confirmation email in Gmail once I have registered for the application.	2	Medium	Aravind Kumar
	Login	USN – 5	User: I can log into the application by entering email & password.	4	High	Vikash
		USN – 6	Admin: I will log into the admin portal.	4		Vishnu
Sprint 2	Dashboard	USN – 7	User: I can see the options available for User account.	5	High	Vikash
	Background running	USN – 8	User: I will allow the app to run in background.	5	High	Vignesh
	GPS	USN – 9	User: I will allow the app to access my location.	5	High	Vignesh
	Notification	USN – 10	User: I will allow notification access for the application.	5	High	Aravind Kumar

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Member
Sprint 3	Google Maps	USN – 11	User: I can see the containment zones using the maps via Google Maps.	5	High	Vignesh
	Chat Bot	USN – 12	User: I can access the Chat Bot for any assistance	5	Medium	Vikash
	Assistance	USN – 13	Admin: I provide assistance to users via the chat bot	5	High	Vishnu
		USN – 14	Admin: I need to provide preventive measures when the user travel through any zones.	5	High	Vikash
Sprint 4	Stability	USN – 15	Admin: I will ensure the stability of the app	2	High	Aravind Kumar
	Storing data	USN – 16	Admin: I store the user details in the cloud database.	2	High	Vignesh
	Update	USN – 17	Admin: I will enter the containment zone's location.	3	High	Vikash
	Data Storing	USN – 18	Admin: I use the cloud services to maintain the users and the contaminated zones data.	3	High	Vishnu
	Alert	USN – 19	Admin: I need to alert the users when they enter a contaminated zone.	4	High	Vignesh
	E-Mail	USN – 20	Admin: I need to send an email alert to the users when they enter a containment zone.	4	High	Aravind Kumar
	Updating	USN – 21	Admin: I should frequently update the details and the location of the containment zones.	2	High	Vishnu

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

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

### **Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>