# 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 |

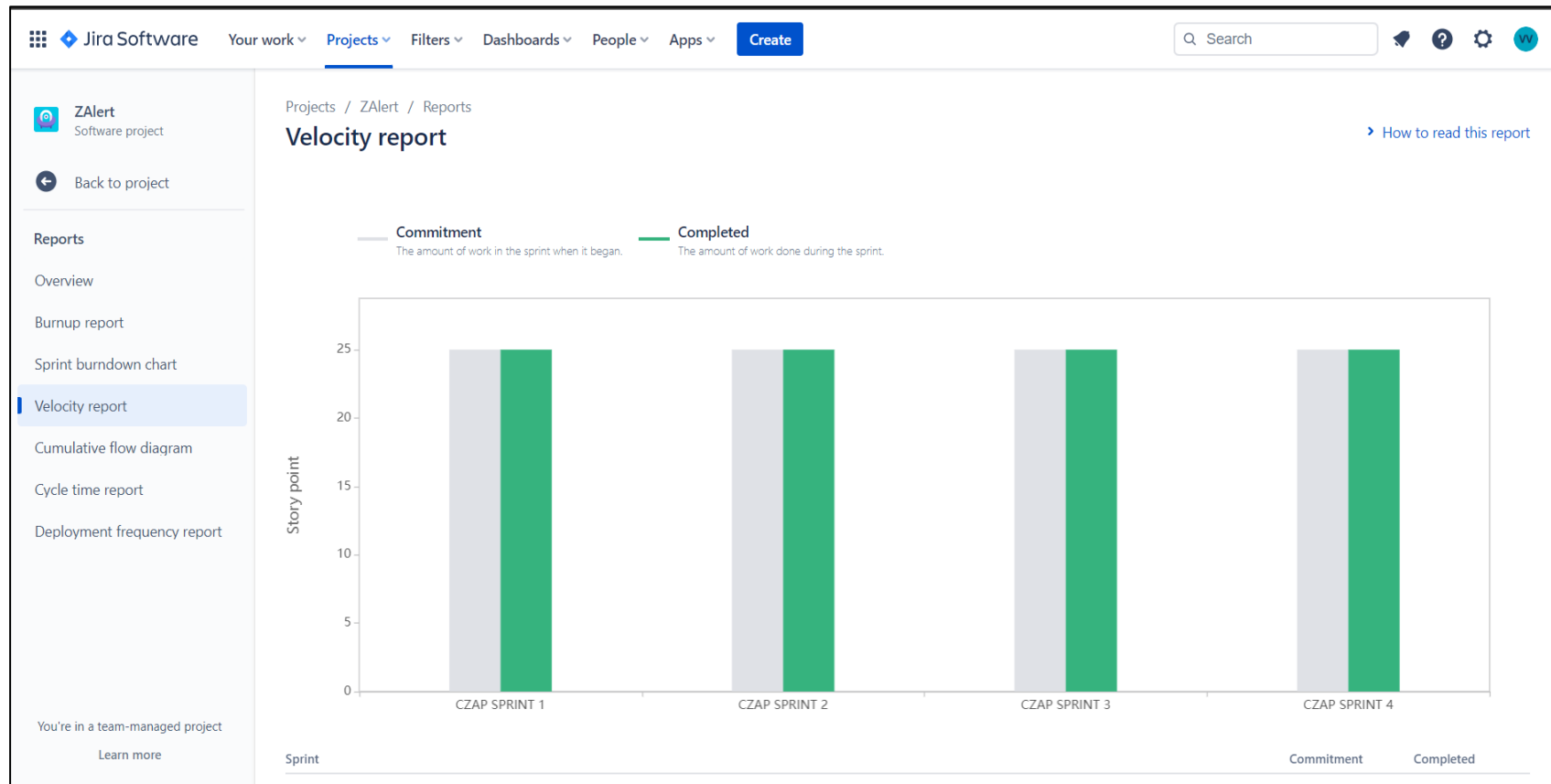| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Member |
|---|---|---|---|---|---|---|
| Sprint 3 | Google Maps | USN – 11 | User: I can see the containment zones using the maps via Google Maps. | 5 | High | Vignesh |
| | Chat Bot | USN – 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 | 20 | 06 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 09 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)   **(To Evaluators: Dear Mam/Sir, Sprint1 is not showing due to some issues in the software but was done)**

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

## 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.