

Project Planning Phase

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

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|---------------|---------------------------------------|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID05098 |
| Project Name | Containment Zone Alerting Application |
| Maximum Marks | 8 Marks |

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

Use the below template to create product backlog and sprint schedule

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|--|
| Sprint-1 | Registration | USN-1 | User. I can register for the application by entering my email and password | 3 | Medium | Tharmarajan S Shyam Chander SP Veera Kishore P Vigneshwaran S |
| | | USN-2 | User I will receive a confirmation email once I have registered for the application | 3 | Medium | Tharmarajan S Shyam Chander SP Veera Kishore P Vigneshwaran S |
| | Login | USN-3 | User I can log into the application by entering my email & password | 2 | Low | Veera Kishore P Vigneshwaran S |
| Sprint-2 | Dashboard | USN-4 | User I need to give permission to access my location | 5 | High | Tharmarajan S Shyam Chander SP Veera Kishore P Vigneshwaran S |
| | | USN-5 | User I can view the map with the containment zones | 5 | High | Tharmarajan S Shyam Chander SP |
| | Service | USN-6 | Admin I need to update the containment zones | 5 | High | Tharmarajan S Shyam Chander SP |

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|----------|-------------------------------|-------------------|--|--------------|----------|--|
| Sprint-3 | Service | USN-7 | Admin I need to differentiate the containment zones based on the intensity of infection | 3 | Medium | Tharmarajan S Shyam Chander SP Veera Kishore P Vigneshwaran S |
| | | USN-8 | Admin I need to provide precautionary measures when they travel | 3 | Medium | Tharmarajan S Shyam Chander SP |
| | | USN-9 | Admin I need to provide information about the nearby hospitals | 2 | Low | Veera Kishore P Vigneshwaran S |
| Sprint-4 | Service | USN-10 | Admin I need to alert the user when they enter the containment zone through email or SMS | 5 | High | Tharmarajan S Shyam Chander SP Veera Kishore P Vigneshwaran S |
| | | USN-11 | Admin I need to provide medical recommendations by collaborating with hospitals | 2 | Low | Veera Kishore P Vigneshwaran S |
| | Data Collection | USN-12 | Admin I need to store user details on the cloud | 5 | High | Tharmarajan S Shyam Chander SP Veera Kishore P Vigneshwaran S |
| | | USN-13 | Admin I need to collect details about covid-19 cases from verified sources | 5 | High | Tharmarajan S Shyam Chander SP |

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>