

Project Planning Phase

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

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|---------------|--|
| Date | 25 October 2022 |
| Team ID | PNT2022TMID00768 |
| Project Name | Project - 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, password, and confirming my password. | 3 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | | USN-2 | USER: I will receive confirmation email once I have registered for the application | 2 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | Login | USN-3 | USER: I can register for the application through Facebook | 3 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|-----------------|-------------------------------|-------------------|---|--------------|----------|--|
| Sprint-2 | Dashboard | USN-4 | USER: I can register for the application through Gmail | 5 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | | USN-5 | USER: I can log into the application by entering email & password | 5 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | Service | USN-6 | ADMIN: I need to update the containment zones. | 5 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story/Task | Story Points | Priority | Team Members |
|-----------------|-------------------------------|-------------------|--|--------------|----------|--|
| Sprint-3 | Service | USN -7 | ADMIN: I need to differentiate the containment zone based on the intensity of infection. | 3 | Medium | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | | USN-8 | ADMIN: I need to provide precautionary measures When they travel. | 3 | Medium | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | | USN-9 | ADMIN: I need to provide the information about the nearby hospitals. | 3 | Low | B Harsha Vardhan Srivas C Vishwa S Tharun C |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story/Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|--|
| SPRINT-4 | Service | USN -10 | ADMIN: I need to alert the user when they enter the containment tzone through email or SMS. | 5 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | | USN -11 | ADMIN: I need to provide medical recommendationsby collaborating with hospitals. | 3 | Medium | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | Data Collection | USN -12 | ADMIN: I need to store user details on the cloud. | 5 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |
| | | USN -13 | ADMIN: I need to collect details about covid-19 cases from verified sources. | 5 | High | B Harsha Vardhan Srivas C Vishwa S Tharun C |

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 | 4 Days | 24 Oct 2022 | 28 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 5 Days | 29 Oct 2022 | 03 Nov 2022 | 20 | 04 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 05 Nov 2022 | 11 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 12 Nov 2022 | 17 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)

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

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.