

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

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|---------------|---------------------------------------|
| Date | 5 Nov 2022 |
| Team ID | PNT2022TMID02859 |
| 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 (web and android) | USN-1 | USER: I can register for the application by entering my email and password | 5 | High | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |
| | | USN-2 | USER: I will receive a confirmation email once I have registered for the application | 5 | High | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |
| | Login (web and android) | USN-3 | USER: I can log into the application by entering my cred | 5 | High | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|-----------------|--------------------------------------|--------------------------|-------------------------------------------------------------------------------|---------------------|-----------------|--------------------------------------------------------|
| Sprint-2 | Dashboard | USN-4 | USER: need to give permission to access my location | 5 | High | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |
| | | USN-5 | As a user, I can log into the application by entering email & password | 5 | High | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |

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|-----------------|--------------------------------------|--------------------------|----------------------------------------------------------------------------------------------|---------------------|-----------------|--------------------------------------------------------|
| Sprint 3 | Service | USN 6 | ADMIN: I need to update the containment zones. | 5 | High | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |
| | | USN 7 | ADMIN: I need to differentiate the containment zones based on the intensity of infection. | 3 | Medium | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |

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|-----------------|--------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------|---------------------|-----------------|--------------------------------------------------------|
| Sprint 4 | Service | USN 8 | ADMIN: I need to alert the user when they enter the containment zone through the notification | 3 | Medium | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |

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|--|-----------------|-------|---------------------------------------------------------|---|--------|-----------------------------------------------------------|
| | Data collection | USN 9 | ADMIN: I need to store user details on the cloud | 3 | Medium | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |
|--|-----------------|-------|---------------------------------------------------------|---|--------|-----------------------------------------------------------|

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|--------|-------------------------------|-------------------|-------------------------------------------------------------------------------------|--------------|----------|-----------------------------------------------------------|
| | | USN 10 | ADMIN: I need to collect details about covid -19 cases from verified sources | 3 | Medium | Abishek K, Anbarasu P, Balamurugan S,Boopesh S A |

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 | 15 | 5 Days | 28 OCT 2022 | 01 NOV 2022 | 15 | 01 Nov 2022 |
| Sprint-2 | 10 | 5 Days | 02 Nov 2022 | 06 Nov 2022 | 10 | 06 Nov 2022 |
| Sprint-3 | 8 | 5 Days | 07 Nov 2022 | 11 Nov 2022 | 8 | 11 Nov 2022 |
| Sprint-4 | 9 | 5 Days | 12 Nov 2022 | 16 Nov 2022 | 9 | 16 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)

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

Velocity for sprint 1: $15/5 = 3$

Velocity for sprint 1: $10/5 = 2$

Velocity for sprint 1: $8/5 = 1.6$

Velocity for sprint 1: $9/5 = 1.8$