

Project Design Phase II

SOLUTION REQUIREMENTS

*Containment Zone Alert
Application*

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CONTAINMENT ZONE ALERT APPLICATION

Solution Requirements (Functional & Non-Functional)

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|---------------|----------------------------------------------|
| Date | 27 October 2022 |
| Team ID | Team ID: PNT2022TMID39o82 |
| Project Name | Project - Containment Zone Alert Application |
| Maximum Marks | 4 Marks |

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story/Sub-Task) |
|--------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Admin Login | <ul style="list-style-type: none">◆ Separate Portal for Administrator to login and make use of. |
| 2 | Admin Dashboard | <ul style="list-style-type: none">◆ A responsive dashboard that shows all statistics of the app and gives the admin full control over the application.◆ Controls to perform CRUD operations on the application's database. |
| 3 | User Registration | <ul style="list-style-type: none">◆ A simple and clear interface for user interface that requires the necessary details to be input by the user.◆ All fields should be validated according to the required detail. |
| 4 | User Login | <ul style="list-style-type: none">◆ One time login, required whence installing using the app for the first time. |
| 5 | Primary Specifics | <ul style="list-style-type: none">◆ Highlight of containment zones in a map interface is to be shown to the user.◆ Listing of details of Containment zones.◆ Instant notification delivery on user-entry into a containment zone. |
| 6 | Additional Features | <ul style="list-style-type: none">◆ COVID statistics to be shown to the user.◆ Covid news from NEWSAPI |

| NFR No. | Functional Requirement (Epic) | Sub Requirement (Story/Sub-Task) |
|---------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Usability | <ul style="list-style-type: none"> ◆ The application should provide a good UI/UX design with seamless navigation across sections of the app. |
| 2 | Security | <ul style="list-style-type: none"> ◆ Passwords should not be stored by the application. ◆ The passwords must be hashed and only the hashed values should be stored in the database. ◆ Privacy and security of the user must be maintained. |
| 3 | Reliability | <ul style="list-style-type: none"> ◆ The data provided by the application should be reliable. ◆ At any point, data corruption should not exist. |
| 4 | Performance | <ul style="list-style-type: none"> ◆ The system's performance should not be affected by a change in the number of users. |
| 5 | Availability | <ul style="list-style-type: none"> ◆ The application and its resources must be available at all times. |
| 6 | Scalability | <ul style="list-style-type: none"> ◆ The application must be extendable to a larger scale of users. |