**Project Design Phase - II**

**Solution Requirements**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID22791 |
| Project Name | Containment Zone Alerting Application |
| Maximum marks | 8 marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **SubRequirement (Story/Sub-Task)** |
| FR-1 | **User Registration** | It can be registered by valid Email id or Phone number |
| FR-2 | **User Confirmation** | Verification code can recieved by Registering mail id or phone number |
| FR-3 | **Alert message via Notification** | By user access of location while entered in the alerted area the notification are send by GPS tracking system and push the grids through mail id. |
| FR-4 | **Show infected zones** | Marked by Geo fencing . |
| FR-5 | **Track alternate routes** | By Google map API or Google dependencies. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | GUI is easier to interact with. |
| NFR-2 | **Security** | The data collected from the user will be stored securely. |
| NFR-3 | **Reliability** | The user can trust the results and navigate safely. |
| NFR-4 | **Performance** | Accurate results can be achieved due to real-time location sharing. |
| NFR-5 | **Availability** | Available if the network bandwidth of the user is of good range. |
| NFR-6 | **Scalability** | The application can be used from anywhere and can also be implemented for both mobile and web apps for the user to interact. |