

Project Design Phase-I Proposed Solution Template

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| Date | 9 October 2022 |
| Team ID | PNT2022TMID52335 |
| Project Name | Containment zone alerting application |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter | Description |
|-------|--|--|
| 1. | Problem Statement (Problem to be solved) | Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or exhales. |
| 2. | Idea / Solution description | Developing a mobile based application. It provides information regarding the Covid-19 containment zones. This application further tracks the user's location. It provides notification alert if the user has entered a containment zone. |
| 3. | Novelty / Uniqueness | The study also shows that there are a limited number of apps which show the COVID-19 containment zones in the country or state and out of these none has the functionality of notifying and alerting the user when they have entered a containment zone. Therefore, no app in the Google Play store is comparable with our proposed application because the idea behind the development of the proposed app is different. This highlights the novelty of the proposed app. |
| 4. | Social Impact / Customer Satisfaction | The country has created containment zones throughout the cities wherever Covid-19 cases have been reported to prevent further spread of the virus. These containment zones have been kept isolated from the outside public to ensure no contamination occurs outside. |
| 5. | Business Model (Revenue Model) | The app can track and inform you about your interaction with a person who has tested COVID-19 positive. It locates infected people with the help of social graph generated with the help of geo location and Bluetooth. |
| 6. | Scalability of the Solution | The application is developed on Android SDK and uses Firebase Cloud Fire store to store the location data. Android's geo fencing client is used to create geo fences around the containment zones and notification manager is used to provide notifications. The application also uses REST full web services to show the Covid-19 cases |