Project Title: containment zone alerting application
Team ID: PNT2022TMID52335

Project Design Phase-I - **Solution Fit Template**

<div style="transform: rotate(-90deg)">Define CS, fit into CC</div>

1. CUSTOMER SEGMENT(S) — CS

.Covid-19 Tracker App is an Android based application. user can download their application in your mobile. As everyone are aware the world is facing one of the unconditional outbreaks. The outburst of Covid-19 during this time period is to design and develop Covid-19 Tracker Android App using REST API which will track the Global Stats and gives the probability of total number of active cases. recovered cases and death rates in all

6. CUSTOMER CONSTRAINTS — CC

This paper mainly focuses on development of an Android application which can inform people of the COVID-19 containment zones and prevent trespassing into these zones.

5. AVAILABLE SOLUTIONS — AS

This paper mainly focuses on development of an Android application which can inform people of the Covid-19 containment zones and prevent trespassing into these zones. This Android application updates the locations of the areas in a Google map which are identified to be the containment zones. The application also notifies the users if they have entered a containment zone and uploads the user's IMEI number to the online database.

<div style="transform: rotate(-90deg)">Focus on J&P, tap into BE, understand RC</div>

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

Aged people are particularly susceptible to the risk of infection from COVID-19, especially those with chronic health conditions such as hypertension, cardiovascular diseases, and diabetes. Children are off school, no service provider (dhobi, cook, driver, gardener, etc.) and regardless to whether they hold job or not.

9. PROBLEM ROOT CAUSE — RC

The pandemic of the 2019 novel coronavirus (causing the disease COVID-19) has expanded from Wuhan throughout China and has spread to more than 200 countries, with millions of people becoming infected and hundreds of thousands losing their lives to the disease (World Health Organization 2020).

7. BEHAVIOUR — BE

The people have only one hour of news watching time a day, some are irritated and facing arguments resulting into fights. Few families are also facing Domestic violence during period of pandemic and lockdown

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3. TRIGGERS

People are restricted to move into these containment zones. This chapter focuses on informing the public about the containment zone when they are in travel and also sends an alert to the police when a person enters the containment zone without permission using the containment zone alert system.

10. YOUR SOLUTION

The Android application shows the location of the containment zones to the users. It also notifies the user when he or she trespasses the boundary of a containment zone or stays in the containment zones — SL

8. CHANNELS of BEHAVIOUR

Geo fencing technology to identify the movement of public, deliver info about the danger to the public in travel and also send an alert to the police when there is an entry or exit detected in the containment zone by the use of location-based services (LBS). By creating a fence virtually called geo-fence at the containment zones established based on the government info, this system monitors public movements like entry and exit to fence.

4. EMOTIONS: BEFORE / AFTER EM

This distance is then used as a key and is stored along with the document in a Tree map. Likewise, all the containment zones with their distance from the user get stored in the tree map and get sorted according to the distance or key. First 100 entries from the tree map are retrieved and geo fences are created on these 100 containment zones. Once the geo fences are set, the user can get notification on entering the containment zones.