# LITERATURE SURVEY

| Team ID | PNT2022TMID14246 |
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| Project Name | Containment Zone Alerting Application |

## 1. TITE:

Development of an Android Application for Viewing Covid-19 Containment Zones and Monitoring Violators Who are Trepassing into it using Firebase and Geofencing.

**AUTHOR:** Ranajoy Mallik , Amlan Protim Hazarika ,Sudarshana Gosh Dastidar, Dilip Singh and Rajib Bandyopandhyay

**YEAR:** July 2020

## DESCRIPTION:

This Android application updates the locations of the areas in a Google map which are identified to be the containment zones and notifies the users if they have entered a containment zone and uploads the user's IMEI number to the online database .Many tools and APIs from Google like Firebase and Geofencing API are used in this application.

## MERIT:

The application has been tested in various locations and has been found to yield accurate results.

## DEMERIT:

In first reading the application was initiated several times without destroying the application process in the background. In the second reading, the application process was destroyed before taking each reading

## 2. TITLE:

Covid-19 Lifeguard: A Compact Wearable IoT system for healthy safety and protection of outgoers in the post-lockdown world.

**AUTHOR:** Gowri Shashank Deo, Chaitanya VijayKumar Mahamuni , Ayushi Mishra

**YEAR:** DECEMBER 2021

**DESCRIPTION:**

Developing a wearable *IoT* device for health safety, protection, and risk management system. It includes an electronic face mask, automatic sanitizer dispenser, wearable for health monitoring, and alert on coming in touch with any surface.

**MERIT:**

This system is beneficial in monitoring the necessary health parametersof the user along with provision for disinfection and touch alert.

**DEMERIT:**

In Future the are going to implement the system in hardware.

## 3. TITLE:

Monitoring and sensing Covid-19 Symptoms as a precaution using electronic wearable devices.

**AUTHOR:** Josephine M.S , Lakshmanan L , Resmi R.Nair , Visu P , Ganesan R , R.Jothikumar.

**YEAR:** JULY

2020

**DESCRIPTION:**

To Monitor and sense the symptoms of COVID-19 as a preliminary measure using electronic wearable devices .This variability is sensed by electrocardiograms observed from a multi-parameter monitor and electronic wearable.

**MERIT:**

This was capable of predicting the risk levels of COVID-19 patients with anaccuracy of 98% and this cannot be bypassed with other medications.

## DEMERIT:

It was cost expensive one because more tests have to take to find the result.

## 4. TITLE:

Comprehensive Identification and Isolation policies have effectively suppressed the spread of COVID-19.

**AUTHOR:** Yubo Huang , Yan Wu , Weidong Zhang

**YEAR:** OCTOBER 2020

## DESCRIPTION:

Constructed a fine-grained transmission dynamics model to forecast the crucial information of public concern,therein using dynamical coefficients to quantify the impact of the implement schedule and intensity of the containment policies on the spread of epidemic.

## MERIT:

This model could deduce other significant pandemic indexes such that cumulative infected cases, cumulative confirmed cases, new suspected cases etc..

## DEMERIT:

They used data from the university not from the common people, it will be accurate only we directly take data of patience