

**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

IBM – LITERATURE SURVEY

PROJECT TITLE

CONTAINMENT ZONE ALERTING APPLICATION

(2022-2023)



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S.NO	PROJECT TITLE	ADVANTAGE	DISADVANTAGE	TECHNOLOGY USED
1.	COVID-19 Lifeguard: A Compact Wearable-IoT (W-IoT) System for Health Safety and Protection of Outgoers in the Post- Lockdown World	To help people maintain social distancing which detects motion in 360° up to 1.5m. The device can adapt to various surroundings by adjusting the sensitivity of the PIR sensor.	It is limited to specific areas such as detection, tracing, or prevention. The issue of safety, sanitization, health monitoring, and alerting the doctors is not resolved by a single integrated system. Mobile applications have been proposed for storing individual's data and alerting but informing the individual of any physical touch or contact with an infected person is not mentioned.	IOT
2.	Development of An Android Application for Viewing Covid-19 Containment Zones and Monitoring Violators Who are Trespassing into It Using Firebase and Geofencing	It is used as a tool for creating further social awareness about the arising need of precautionary measures to be taken by the people of India.It can inform people of the Covid-19 containment zones and prevent trespassing into these zones.	People can move inside the city for work and other purposes. But the containment zones are still being kept isolated, and new containment zones are being formed wherever Covid-19 cases have been reported. These zones are highly contagious as droplets with virus coughed out from an unscreened asymptomatic patient can travel up to 8 m and it makes tough to use frequently.	Geofencing API Firebase cloud firestore

3.	Internet of Things (IoT) Enabled Architecture for Social Distancing During Pandemic	Digital technologies play a crucial role to support the social, professional and economic activities when people are forced to stay locked-down in their homes.	A common problem with most IoT devices is their limitation due to restricted battery life which inhibits their capability to operate for long duration and long distances in case of drones, robots etc. The lack of proper measures and guidelines in handling patient's confidential data, algorithms for ensuring security and privacy increases vulnerabilities associated with the use of many technologies like drones, robots, autonomous vehicles etc. which are crucial supplements to the IoT platform.	Proposed IoT architecture
4.	Community alert project	Improved awareness in pilot communities to natural hazards through enhanced public education and awareness building initiatives.	The main risk is suspension of activity can be considered by the contracting authority in case of a major event. Backstopping and quality assurance measures to ensure the resilience of the contract outputs should be undertaken by the consultant	API CAP server Android