

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID13786
Project Name	Project - Containment zone Alerting Application
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The application uses Firestore which is a flexible and scalable database for mobile, web and server developments from Firebase and Google cloud platform.
2.	Idea / Solution description	A collection is created in Cloud Firestore with containment zones as documents. Each document has four fields: latitude, longitude, location name and radius
3.	Novelty / Uniqueness	The developed android application further extracts the IMEI Number of the trespasser in the containment zones which can be useful to the local police to track and identify people who are frequently trespassing the containment zones
4.	Social Impact / Customer Satisfaction	The application further extracts the IMEI number of the trespasser and uploads it to the online database.
5.	Business Model (Revenue Model)	With the help of getters each data from the document is retrieved and are converted to string.
6.	Scalability of the Solution	Tests have been carried out in various containment zones across West Bengal for the validation of the Android application.