

Project Design Phase - I

Containment Zone Alerting Application

Logesh P.R

Balasubramaniyam V.R

Yogesh T

Jayadev Kavel P

Project Design Phase-I Proposed Solution Template

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Team ID	PNT2022TMID22562
Project Name	Project – Containment Zone Alert Application

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)	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.	Scalability of the Solution	Tests have been carried out in various containment zones across West Bengal for the validation of the Android application.
6.	Business Model (Revenue Model)	With the help of getters each data from the document is retrieved and are converted to string.