A classification and literature survey on aviation Industry

Project Mentor :
Mr.A.Gobinath

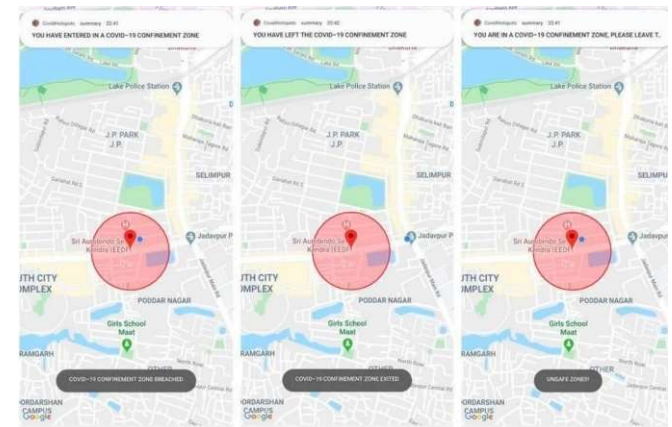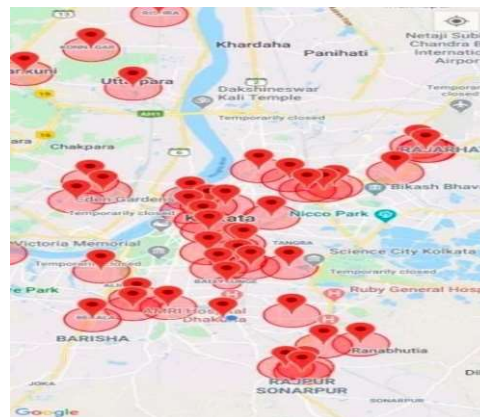**Team id :PNT2022TMID23259**
Team Members:
S Sujeet krisna
K S Sabarinathan
T Raj pranav
N Muthu vignesh

Department of Information Technology
Velammal College of Engineering and Technology

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Problem definition

➢ Dependence of HAP emission from idling aircraft on ambient condition.

➢ HAP emission from general Aviation aircraft.

➢ Identification of the emission source most important to on-airport and off-airport exposure.

Survey Papers

- <u>Author Name</u> : Mahmoud Masoud
- <u>Title</u> : A classification and literature survey on aviation
- management
- <u>Publication website</u> : https://www.researchgate.net/publication/333640912/
- <u>Published Date</u> : May, 2019
- <u>Objective</u> : aims to analyse the capacity of the airline facilities for aircrafts arrivals and departures.
- <u>Technology used</u>:
- <u>Firebase Cloud Firestore</u>- A real-time database is created in Google Cloud Firestore which contains all the data related to the containment zones like latitudes, longitude, radius and zone names
- <u>Geofencing</u> – A feature in a software program that uses the Global Positioning System(GPS) or radio frequency identification (RFID) to define geographical area

Existing Application

- Developed by : MIT International Center for Air Information
- Title : Airline Industry Consortium
- Publication website :https://icat.mit.edu/current-projects
- Published Date : 2022
- Objective : objective of this project is to develop a cost model that will quantify commercial space costs, specifically, the cost of commercial launch vehicles, their payloads, their operations, and their reentry and recovery operations. In addition, the model estimates the cost of launch delays to commercial launch vehicle providers.

Existing Application

- <u>Developed by</u> :Ahmed Abdelghany
- <u>Title</u> : Modeling Applications in the Airline Industry
- <u>Publication website</u> : t: https://www.researchgate.net/publication/257828717
- <u>Published Date</u> : February 19, 2020
- <u>Objective</u> : The main objective of this research is to evaluate the impact of including real airspace constraints in the optimization process of the aircraft and the transport network simultaneously.

Existing Application

- <u>Developed by</u> : Adani

- <u>Title : Turning India's transit gateways into world-class destinations</u>

- <u>Publication website</u>: https://www.adanidefence.com/

- <u>Published Date</u> : 2022

- <u>Objective</u> : Adani Defence has been building state-of-the-art capabilities ensuring Swa:Raksha (Swa in Sanskrit means 'Self' and Raksha means 'Defence')

Existing Services

- <u>Developed by</u>:Ministry of Civil Aviation

- <u>Title</u>: AirSewa

- <u>Website</u>:https://airsewa.gov.in/home

- <u>Published Date</u>: 2022

- <u>Objective</u>: The main objectioves of AirSewa app and website provides you information about flights operating from various airports in India. AirSewa enables travelers to submit grievances and seek information on air travel in India. It is an initiative by MoCA, Govt. of India

Existing Services

- Developed by:Government Of India

- Title: udan-flight

- Website : https://airsewa.gov.in/read-more/udan-flight

- Published Date: 2020

- Objective:

- Though India had been experiencing significant growth in the aviation sector, air traffic was mostly concentrated amongst six metros whereas many regions craved for air connectivity. This skewed development of air connectivity would create disparity in growth, if not addressed appropriately. In view of above, Regional Connectivity Scheme (RCS)-UDAN (Ude Desh ka Aam Nagrik) was conceived by the Ministry of Civil Aviation (MoCA) to promote regional air connectivity and making flying affordable for the common citizen. The objective of the scheme is to provide air connectivity to common man at affordable airfare and connecting unserved and underserved destinations by encouraging airlines to operate flights on regional and remote routes through enabling policies and extending incentives / concessions.
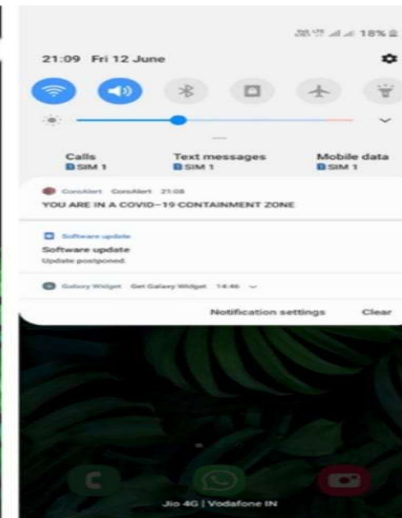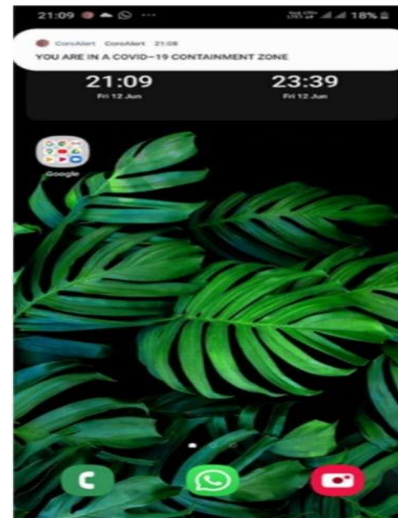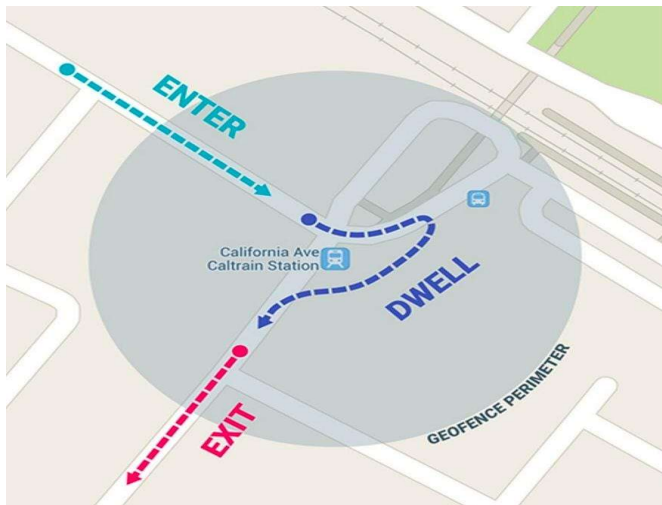
De-merits

➢**Every application mentioned above have security issues and the latest information are not updated regularly and the containment zone are limited within the state and not according to the user's location.**

Hardware & Software Requirements

- **<u>Software Required</u> :** Python, Flask , Docker

- **<u>System Required</u> :** 8GB RAM, Intel Core i3, OS-Windows/Linux/MAC, Laptop or Desktop

Objective

➢ This application is intended to provide information about Radius-zones in a particular region for the Passengers, through continuous monitoring of an individual's location. Key benefits of the application are monitoring Aviation activity and alerting them of their safety movements

Thank You!