SMART ATTENDANCE MANAGEMENT SOLUTION

SELF-X

GUIDE:- MR.SAURABH SUMAN







- Prior to the advent of computers and mobile devices, using a pen and paper was the most typical way to take attendance in classrooms.
- Traditionally, the attendance system comprises calling out student's names or circulating an attendance sheet around the class
- In the industrial era, all activities can be connected to and accessed by utilising a smartphone and the internet, although technology is now evolving very rapidly.
- The attendance system is expanding as well to make it simpler for students to use and to enhance student monitoring.







SELF-X

Cost Effectiveness

- Product minimises cost of recording attendance by eliminating the need of biometric hardware to record Attendance.
- As a software Application, it can be easily downloaded by the students as it would be free of cost.

Societal Impact

- As, it is time for digitalisation in all the areas, our solution can modernise the traditional way of recording attendance.
- Managing the attendance of students is time consuming, expensive and loborious,
- The system tracks student hours and can generate report automatically.

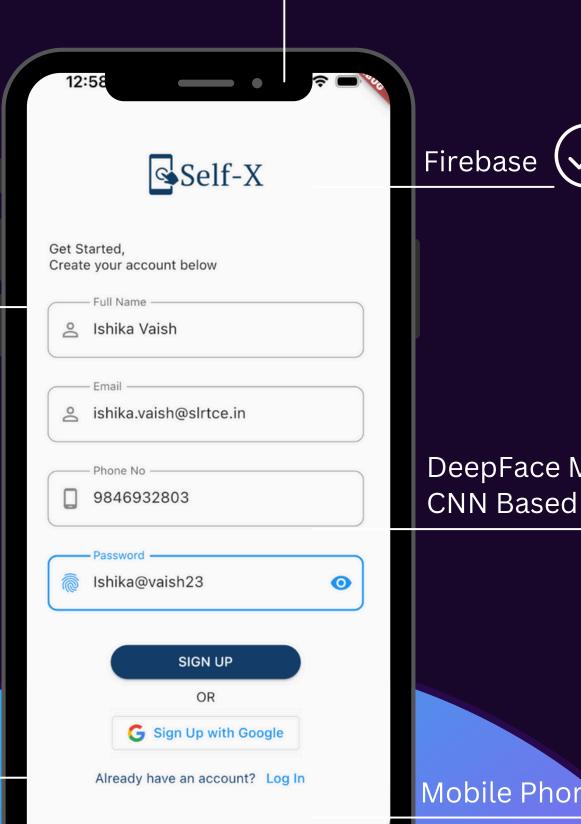




Effective use of Skillset



Flutter Application Android and IOS Compatible



DeepFace Model **CNN** Based

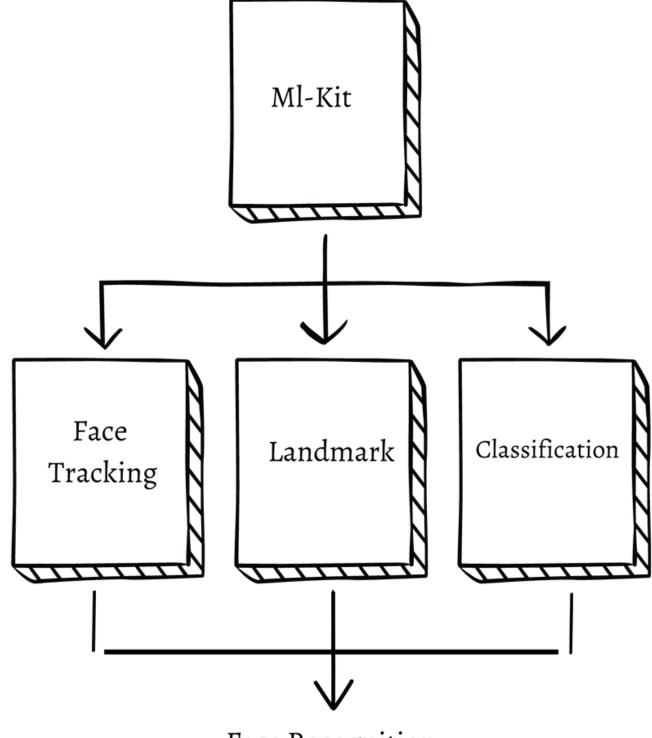


Mobile Phone



TechStack

- Using face recognition in Firebase's ML Kit enables you to detect and recognise faces in an image, without providing additional data.
- The face detection algorithm returns rectangular bounding boxes that you can then plot on the detected faces.
- It's also able to detect key facial landmarks such as eyes, mouth, nose, etc.



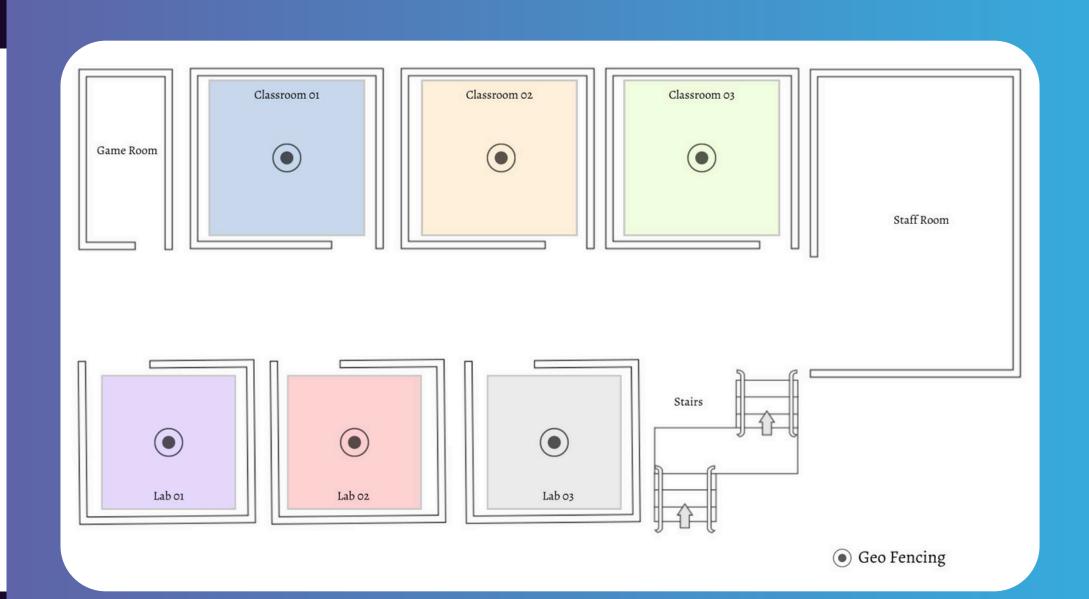
Face Recognition



>>>

Geo Fence

- geofence_service 3.5.0 this plugin can provide more accurate and realtime geo-fencing by navigating your location while your app is alive.
- The library trust_location 2.0.13 Fake GPS users in order to prevent the GPS position in smartphones from being modified by an student a Fake GPS application.



THANK YOU