SYNOPSIS

# TITLE:

GEOX

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GEOX is basically an automated attendance system that is being created to ease the paperwork and maintain a attendance database of the student in institutes. We are using geofence as the main pillar to fix this problem and a database mongoDB for storing students information.

## What is a GEOFENCE?

Geo-fencing is a feature in a software program that uses the global positioning system (GPS) to define geographical boundaries.

Geo-fencing allow an administrator to set up triggers so when a device enters (or exits) the boundaries defined by the administrator, an alert is issued.

# PROBLEMS FACED:

* Manual creation of database of students
* Lot of paperwork
* Checking the attendance of each student manually
* Time consuming
* Students can check their attendance only by visiting the registration office

# Problems overcome by Geox:

* Automated attendance system for the users.
* Time Saving.
* Easy user interface
* Students can check their attendance on day to day basis
* Can be operated remotely
* Easy to use
* Discrete login page for admin and students
* Push notification when the user enters the cdac.
* To reduce paperwork.
* Reduced operational time.
* Increased accuracy and reliability.
* Increased operational efficiency.
* Data security**.**

# TECHNOLOGY USED:

## Web Design:

HTML , CSS , Java script,

Angular JS: For developing single-page application**.**

### Node JS:

Server side Java Script frame work for server side code.

### Database:

MongoDB: For database.

### API’S AND FRAME WORK USED:

FENCER.IO:  For handling Geo fence and location.

BOOTSTRAP: For fully responsive web design.

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