CASE STUDY

Smart School Attendance System

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Overview

The Client wanted to develop a scalable smart school attendance system that can record and access timestamps of in and out time of students. The goal was to create a better solution for an attendance system that can record student databases and provide real-time status of student's attendance. CoreFragment Technologies was developed as per the client's exact requirements and technology choice.

Region

Asia

Industry

IoT

Use cases

- Automatic In and Out Timestamp record and storage by integrated student ID card

- Real time access of student attendance record

- Access to download any timeframe student data along with USB device storage option.

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Development insights

- Each student will get an identity card with a small Bluetooth tag which has a unique ID.

- A Bluetooth receiver will be placed at the school's entrances and exits to pick up the signals from the students' tags.

- The receiver will record the exact time when each student enters and leaves the school.

- The receiver will save the student's ID and the timestamp on the device.

- Periodically, this data can be transferred to a thumb drive (pen drive) as a CSV file for ease of reporting and analysis.

Technology used

TEXAS INSTRUMENTS

CS EAGLE