Digital Student ID and Body Temperature Recording System

Asia Pacific Telecom Co., Ltd.

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Application context

Enter and exit at the school entrance, use the student ID card to automatically record body temperature after the card is received, and link to the health management system or the body temperature autonomous recording system to ensure that there are no loopholes in the epidemic prevention and improve the efficiency of the epidemic prevention work to protect the health of teachers and students .

Expected function

1.By using the card to intelligently sense the temperature of students individually and automatically record the green to the system to streamline the school's manpower burden.

2.When it is introduced, it can link to the student health management system for system integration to maximize resource efficiency.

3.Automatic monitoring system and reporting mechanism. In the event of equipment abnormality or service interruption, the manufacturer shall report within 8 hours and record the cause of the abnormality and the corresponding actions in detail.

4.It must have complete information security protection, and must comply with relevant regulations such as the Information Communication Security Management Law.

Product deployment performance

System flow

1. Identification

Student leisure card by card

2. Body temperature measurement

Face detection and forehead temperature measurement

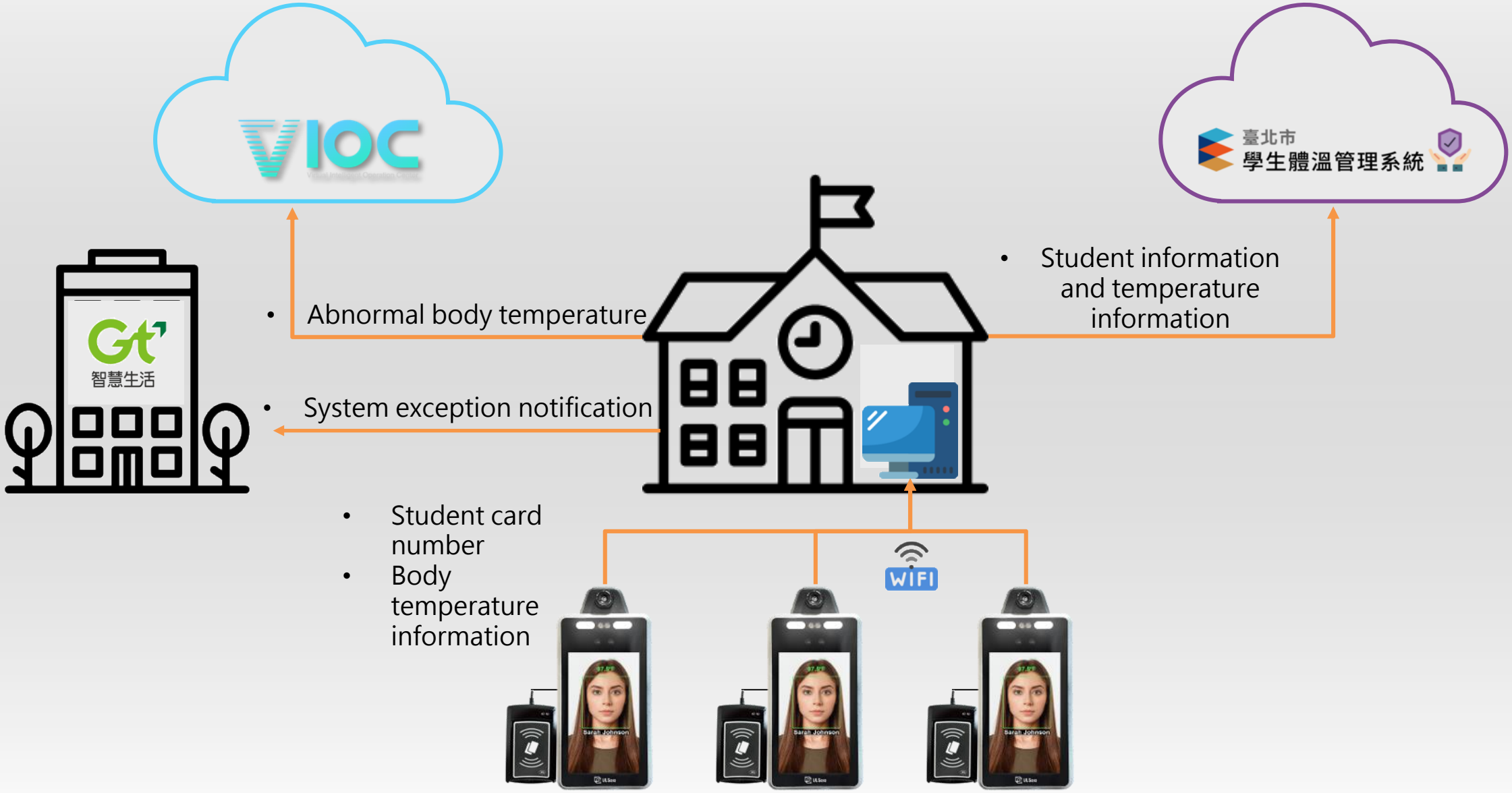
3. 資data collection料收集

Measurement data report | Abnormal data notification

4. Data upload

Data upload management system

system structure

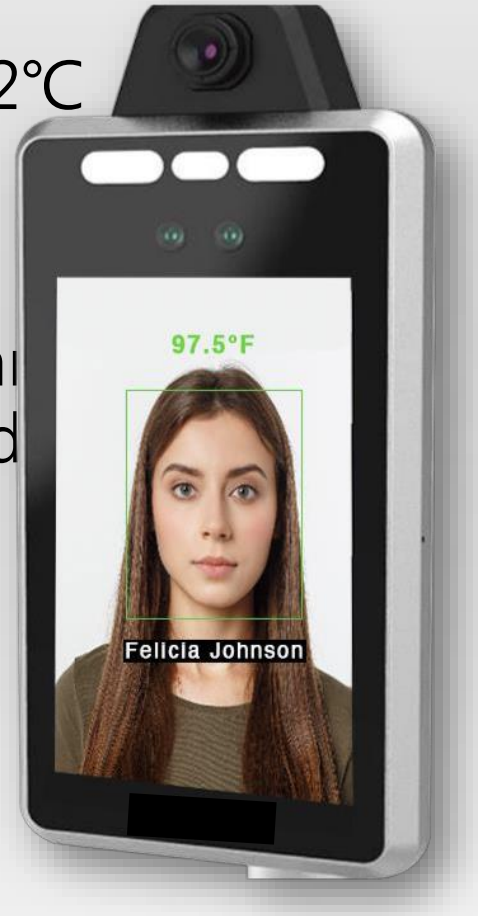


Proximity card reading technology

- NFC Card reader
- Reading speed: 0.2 sec
- Support NXP MIFARE S50 @ 13.56MHz
- Read the outer code of the student leisure card as identification

Forehead temperature measurement and mask detection

- Average body temperature measurement speed: less than 0.4 sec
- Measuring temperature error value: less than ± 0.2℃
- Measuring temperature distance: 0.3 ~ 1.2 m
- Mask detection accuracy: 99%
- When body temperature is abnormal or mask wear abnormal, an alarm will be issued immediately and present will be notified to assist in handling



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