Name(s)	Project Number
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Project Title

Teknolink: In an Emergency, Information Is Safety

Abstract

Objectives/Goals

During an emergency, when releasing students to their parents is time critical, schools still have to sift through binders of information to match the students to their authorized guardians. The objective of our project is to find a secure and efficient solution for releasing the students.

Methods/Materials

In order to understand the problem better, we first interviewed the Emergency response team at our school. This helped us brainstorm what features the solution must have.

We then created a mockup of the solution and presented it at our school to gather feedback from the staff members. We researched different ways to identify a person and found that card-swiping was the most efficient.

We also researched possible approaches and finally implemented them into the application for the solution. This involved the following tools and programming languages:

- Parse.com for creating online database
- Webstorm and Xcode development environment
- HTML, Javascript, JQuery mobile, Phonegap

Results

After presenting our solution at the school, they felt that the proposed solution was a marked improvement over the current process, and also provided us feedback to ensure low cost for the device. We also found that different schools may have different release processes that the solution might have to address if we were to expand the usage beyond our home school. The currently demonstrated prototype incorporates feedback from the school staff.

Conclusions/Discussion

The solution provides an easy approach to swipe a card for authorized adults and students to quickly access their information. This makes it easier to not just limit the usage to a situation of emergency at the schools but extend it to a day-to-day usage as well. The solution met the desired goal for the project.

Summary Statement

Teknolink - a low cost device to facilitate the student release process at schools.

Help Received

School Emergency response team members for providing information on the current process and feedback on the proposed solution. Vandana Deep and Ajay Srivastava for formulating our idea in slides. Rohit Deep and Vandana Deep for programming and web resources to help us create the solution. Kukie