Capstone Project Part III

CST 8288: OOP with Design Patterns

Group 2

Erica Boucher, #040699523

Kara Maloney, #040695990

Caitlin Ross, #040750891

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# Product Description

In a previous semester, one of our team members started working on a new sign-in/sign-out system for schools. Prior to the pandemic, dropping off and picking up our kids from school was simple. We would wait outside and when the bell rang, the kids would go in at the beginning of the day and come out again at the end. The process was quick and easy. However, with the pandemic racing its way around the world, simplicity seems to be a thing of the past. Bringing children to school nowadays involves multiple sign-in sheets, different doors for different ages, multiple entrances and release times, way too many people in one area at a time, and it takes nearly twice the amount of time! Many parents are starting to voice their concerns, but nothing is being done. All these issues can be easily fixed with a sign-in/sign-out application for parents to use on their phones and devices. Designing and implementing an application for parents would ease the flow of traffic to and from schools, save parents and educators more time, and help to protect all those present from the coronavirus.

# Implemented Features

At this point, our project (working name Lineup) has the following features implemented

* MySQL database is used for data persistence.
* Authentication module (users can log in/out) is implemented for security.
  + Beyond logging in and out, users (including parents/guardians, teachers, and other staff) can register themselves, reset their password, and confirm their email.
* After registering, parents/guardians can add their child to their profile using the child’s student ID.
* Parent/Guardians can easily bring up a list of their children and click a button to confirm drop off/pick up.
* All users can keep their contact information up to date using the application.
* Teachers can view a list of children in their class who are present. This list updates in real-time.

# Potential Future Features

* Implementing a mail-server to send a real email to users when they register, confirm their email, or reset their password.
* Improved UI/UX, ideally with the option for school-specific branding.
* Communication of attendance information from the teachers to the parents/guardian (i.e., snow days, where to drop the student off, informing the parent if the child was dropped off but not present for class, etc.)