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Java Final Project Report

I wrote a simple program that would be of use to an institute like a school. It allows the principal to login and check the list of all the students and teachers. It allows the teacher to login and check attendance for his/her students. Finally, it also allows the registration staff to register new students and teachers onto the system.

The principal can view the list of students and teachers. The program reads from a csv file in order to display the list of students. I already inputted some students into the program by typing in their data in the file. When you open the program there already should be some students registered. There is a separate csv file with the list of teachers. To display all the teachers, the program reads from this file. I also preemptively inputted some teachers so some teachers will already be registered when the program is run for the first time. The student list file contains the student's name and what class they belong to. The teacher list file contains the teacher's name and what subject they teach.

The teacher can take attendance. The teacher can view all the students registered on the system. The students are marked present by default. If the teacher submits without marking absent, then the student will be present. If the teacher hits the 'absent' button and marks the student absent and then submits, the students will be absent. The results of the attendance are printed onto a text file.

The registration staff can view the complete list of students and teachers just like the principal. However, they can also register new students and teachers. When they register a new student, it will add that student to its respective csv file. The same goes when they register a new teacher. The program is both reading and writing on these two csv files. It reads to display the list of students and teachers. It writes when a new student or teacher is registered.

Right now the program is set so that the login for the principal, teachers, and registration staff is admin and that password is also admin. The program has 10 classes including main and has more than 800 lines of code so it meets the requirements. I used everything I have learned in this course to make this program. My video is 8 minutes long so it was too heavy for me to upload on iCampus with my poor internet connection. Instead I uploaded it to Google Drive, you should be able to view download the video with this link:
https://drive.google.com/file/d/1-vgSGENlfytZT9dySziYCMjYhzDMxZds/view?usp=sharing

All my source code is inside the folder 'final java project copy' and then 'src'. Each class has its own folder with its source code. I included the JAR file as the executable for my program in this zip file. It works perfectly except that it is not using FILE I/O so when you run the executable you will not be able to use that feature of my program. You will not be able to see or edit the student and teacher list. I do not know if this is a problem on my part since I do not have experience making executables or if this is the nature of executables. I recommend running the program on a proper IDE to be able to see how the program truly works as I demonstrated in the video.