

## Criterion E

### Criteria for Success List

<i>Criteria for Success</i>	<i>Comments</i>
UI is simple and intuitive	SUCCESS
Successfully implement input/output functions	SUCCESS
Program must be able to effectively sort and search through various types of gate passes and variables (name, grade, etc).	Algorithms to achieve this feature was not implemented due to time constraints compounded by the complexity of the program
Be able to record normal gate passes	SUCCESS
Be able to record senior gate passes	SUCCESS
Be able to record comments, ID number, name, grade level, and senior gate pass number	SUCCESS
Be able to import/export data	Feature was worked on but issues with output of data into table was solved at the last minute - which did not leave enough time for complete development of this feature
Autofill function	School administration refused to give data pertaining to basic personal information (name, ID number, grade level) which hindered progress on feature
Ability to “block” senior gate passes	Not feasible because that would require development of another program involving network functions
Easy to distinguish in between both types of gate passes	Not successful because of time constraints.
Provide statistics on amount of students who leave using normal/senior gate passes	No suitable library was found to use, and issues with SeniorGatePass class severely hindered pace of development

## Client Feedback

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*[for the first part of the interview, I was explaining and showing her what the program can do, and what the program can't do yet]*

**Chin Chao:** So some of the problems here with my program is that I can't import or export this data yet to a excel file. I also tried including a option where you can record the date and the time, but the code was too complicated, and there wasn't enough to time to finish it. I actually had a prototype in there but I removed it from the version that I have right now since it isn't working. I also know that we talked about color-coding the different types of gate passes so that it'll be easier to organize/sort by. So, what do you think of the program right now? I know there's not much here, but I'd still like to here what you think of it.

**Gade:** Well, just having the recording system, which I didn't have before, I wasn't able to record what times they were signing out, and having this is a lot more better than having nothing. About the senior gate passes: I still want a feature where I'm able to control the senior gate passes that are "blocked" from leaving, and I don't see a system like that here. It's quite concerning to me because the seniors can just walk in anytime they want (when I'm not here), grab the gate passes, and leave even though their gate passes might be "blocked". That's a feature that I still really want.

**Chin Chao:** So what you're trying to say is that you're still confirmed about the fact that there's still not system to control the senior gate passes, correct?

**Gade:** Yes. But for the regular gate passes, it's fine.

**Chin Chao:** Well, I tried thinking about the solution to the senior gate passes, and I couldn't really come up with a solution. The only real solution to it would be that you'd have to have the guards control the senior gate passes; there's not system that I can implement at this current time where I can do such a thing. But I do agree with you, that I think the lack of this particular feature is concerning. But I would say that a feature like that would be outside of the current scope of the program, because right now, this program is for record keeping. So... yeah. What else do you think I should include in my program that isn't here right now?

**Gade:** Show me the spreadsheet again. Yeah, so it shows things like name, grade, ID number, comments/reason. Is it possible that once I enter the ID number, it would autofill the fields

associated with the student's personal details? Such as, if I put in the ID number, it would automatically fill in the name, grade, and perhaps senior gate pass number?

**Chin Chao:** No, but it is one of things that I planned to include in the program, but it wasn't implemented due to the lack of time.

**Gade:** That would be one of the feature's that I'd really like to include in the program because it would help make my job a lot more easier. Autofilling a students personal information, to be specific.

**Chin Chao:** Yes, that would definitely be one of the features that I would include in the future when I work on it again.

*[end of interview]*

**INTERVIEW ENDS AFTER THIS LINE**

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Summary of Interview:

- Positive comments
  - Client likes having a system that can record the bare minimum, as it is "better than nothing", to quote them
  - Asked to have the program sent to them next week - was eager to use it!
- Negative comments
  - Ability to "block" senior gate passes was not implemented - client was persistent about that feature throughout the lifetime of the project
  - Autofilling of personal information feature was not implemented
  - No import/export function of data to and fro from Excel file
  - No color-coding of different type of gate passes
  - No date/time records

## **Recommendations for the future development of the product**

In our evaluation interview, Khun Gade mentioned that she would like to have a Import/Export class for safety and accountability purposes, which makes for a compelling argument as to why this feature should be implemented in this program. So, as part of the extensibility list for the program, Import/Export functions should be *strongly* considered, but only after the date/time classes have been finished. I feel that the program is only ready for production once the date/time and import/export class has been included. Another feature which she mentioned was the auto-filling of the student's personal information (for example, if you were to simply type in a student's name, it would fill out ID number for you, and grade level too, and would be the same if you were to only type in the ID number). She stressed this quite a bit both in the prototype interview and the evaluation interview, although at the current moment it is not possible because access to that data by students is currently restricted by the high school administration.

Also mentioned in my final interview with my client was that several key features that she was looking forward to was missing, and that the code was not exactly the most "elegant". Although she was eager to get to using the code, I have my own reservations about having this program be a the initial production version as many features are missing, and it is better to be consistent in the structure in which we record our data. For example, right now I'm missing the date/time function (and class). I would much more rather put into production a version where the date/time recording feature is present, as it encourages a consistent standard of record keeping, rather than slowly adding new types of data as we go. Another point to consider is that some of the code is not considered as "done". At best, it could be called as "prototype" as I'm still dealing with issues pertaining as to how some of the classes are supposed to be processing the input from the newPassPanel in the MainGUI class. My current solution right now is to "force-feed" the input from the newPassPanel into a block of code that processes the inputs and converts it to outputs for the jTable in gatePassesPanel. The relevant lines of code can be seen below:

```
for(int row = 0; row < students.size(); row++){ // this function will loop
through the table while inputting data.
    /*
    if(isSeniorPassCheckBox.isSelected() == false){
    recordsTable.setValueAt(students.get(row).getName(), row, 0);
    recordsTable.setValueAt(students.get(row).getId(), row, 1);
    recordsTable.setValueAt(students.get(row).getGrade(), row, 2);
    recordsTable.setValueAt(students.get(row).getComments(), row,
```

```

3);
    }
    */

    //if(isSeniorPassCheckBox.isSelected() == true){
    recordsTable.setValueAt(students.get(row).getName(), row, 0);
    recordsTable.setValueAt(students.get(row).getId(), row, 1);
    recordsTable.setValueAt(students.get(row).getGrade(), row, 2);
    recordsTable.setValueAt(students.get(row).getComments(), row,
3);

        GatePass s = students.get(row); // getting input from senior
gate pass number text field
        if(s.getPassNumber() != -999){
            recordsTable.setValueAt(s.getPassNumber(), row, 4);
        }
    //}
}

```

I just don't feel comfortable delivering this type of code unless it is a last resort option, in which it is highly unlikely, but then again, it may be the solution that we need, but don't deserve. There's also another issue that I'd like to briefly mention, and that is some of the text fields need sanitized input - in the sense that Strings should not have to be converted/parsed to int's by writing code to specifically do that. Doing so adds unnecessary lines of code to the program, further complicating it, which in turn makes maintenance a bit of a messier job.

In conclusion, I feel that this program is adequate enough to be called a prototype, but it is most definitely production quality. At the very least though, it serves as a good "proof of concept" of what this program is supposed to be, and could use a little more work.

### **Recommendations from Client**

<b>Client Recommendations</b>	<b>Benefits</b>	<b>Realistic?</b>
Implementation of feature of being able to “block” senior gate passes	Allows Khun Gade to control which seniors get to leave (provided they are not being reprimanded - in which case they will not get to leave)	No, because it would require the creation of another program, and that would mean working with networks, which would mean security vulnerabilities
Autofilling of person information	Allows quick and easy entry of names and personal information.	Yes. It would require being able to read and parse files, which was in development already
Import/Export to and fro from Excel (or spreadsheet programs/formats)	Organized way to store data, persistent data (will not be erased after restart of program), able to view and edit old entries as needed	Yes. It would require being able to read, parse, and write to files. Was being developed, but progress hindered by issues with subclasses and output in table
Color-coding of different types of gate passes	Quickly identify various gate passes, allows for easier visual searching and processing	Yes, because it only requires adding a special attribute to both subclasses
Date/Time records	Record what time and date students left. Good for accountability and safety purposes	Yes, although it is tedious. Will have to create a new class and overhaul the GUI in order to make it work

### **Extensibility/To-Do List**

- Sorting and Searching algorithms
  - Name
  - Grade
  - Date
  - Time
- Import/Export Data feature
- Ability to block certain senior gate passes
- Make senior gate pass numbers show up
- Autofill function
- Senior gate pass checkbox can only be enabled conditionally
- Login screen

**TOTAL WORD COUNT: 551**