

Criterion E: Evaluation

Evaluated Success Criteria

1. Both student and teacher users will be able to create their own accounts as well as login into their profiles to access the data pertaining to their account type
 - Both types of users are able to make accounts and login to these accounts containing their profiles and necessary information
 - When users sign-up and login, their account info is checked for requirements and matches (i.e. usernames ≥ 1 character, passwords ≥ 8 characters)
2. Both student and teacher users will be able to successfully logout of the application
 - Both users can logout and log back into the application without errors
3. Student users will be able to add their personal information (i.e. student email, number, level) as well as the necessary components of the IA (i.e. topic, research question, variables, materials)
 - Student users are able to easily save their personal and IA information to their custom created text file
4. Student users will also have access to a complete material list (already sorted with most frequently accessed near the top, however it also can be sorted alphabetically)
 - Student users can access a complete lab inventory list and save their inventory to their custom text file in order
5. Teacher users can access their students' IAs by entering the student's username and student number
 - After entering both the correct student name and student number, teachers can access their students' IA plans
6. Teacher users will have a clear display of the student's IA information and can also head back to their planner and check the work of other students as well
 - Teacher users have a clear display of the chosen student's work and can head back to their main planner to check for another student's work
7. The application will maintain simplicity while also ensuring the use of several design customizations and appropriate graphics (i.e. fields, scroll panes, checklists, images)
 - The application contains various GUI components (i.e. fields/scrollpanes), however it lacks an abundance of graphics that engage users

Client Feedback

Client Interview Transcript

Sri: Hi Emily, I see you've used the program, what are your thoughts?

Emily: Well, as someone who had to already experience the messy process of planning my chemistry IA and having it planned with my teacher, I actually think this program suits the needs of many students who were in my position.

Sri: That's great, do you have anything in specific you liked?

Emily: I personally found that the entering and saving of information for the student was fairly simple, which I definitely appreciate as someone who isn't as technologically advanced. The separate fields and clear instructions were also really helpful.

Sri: I'm glad it worked for you! Are there any thoughts on the teacher end?

Emily: Honestly, I found that feature to be super cool, because it makes the whole process so much simpler. I think the links between the student and teacher profiles eases up the time that it takes to review IA plans especially because I've been on tight deadlines before and experience major procrastination.

Sri: Yeah, I get that. Would you say the application was similar to your own idea/design?

Emily: I definitely think it had most of the elements I wanted, however, I wish you had more graphics, like you did on the menu page because it made the app more appealing especially since it's for school purposes.

Sri: I appreciate the feedback! Thank you for your time!

Recommendations for Future Improvements

1. Allow student users to view and edit their plans within their own frame

Currently, the application allows students to enter their IA information, however, after the application closes, the information is not saved on the frame itself, rather only in the user's custom text file. In the future, this program would become more dynamic to give students easy editing access of their plans when using the application. This could be done by storing the data in some type of abstract data structure such as a stack or queue to allow for the data to be easily retrieved and displayed within the application.

2. Allow teacher users to have a full database of all their students to streamline the tracking progress of student IAs

The current stage of the application allows teachers to access student plans via their username and email, however, this is more time consuming for the teacher. In order to streamline this process in the future, the use of a database which holds the student's information can appear on the frame for selection. This way, teacher's aren't limited to entering the student's information and can just access the content via a class list, improving both the efficiency and accessibility of the program for the teacher user.

3. Include more graphics that allow the program to be more engaging and clearer to users

One drawback that occurred during the creation of this program was the lack of graphics used in the program despite my client's interest in having a more engaging platform. In the future, the design of this application could be improved to fit both the younger and older audiences that are accessing this interface. A potential solution would be creating more image icons and using them to develop buttons that are commonly used on other editing and planning platforms.

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