Group # 4

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SWE 6783 User Interactions

Project Deliverable # 4

Project Title: QuizEms

Project Tagline: The easy solution to practice quizzes and tests!

Content: Paper Protype, Evaluation of the Paper Prototype, Feedback on the Paper Prototype, Computer Prototype, Evaluation of the Computer Prototype, Feedback on the Computer Prototype, Implementation, Evaluation of our System

GitHub URL: https://github.com/clincol2/UISummerProject

Please continue to the next page to view the content.

Paper Protype: https://xd.adobe.com/view/964b5b67-0bb5-410a-741c-2efe04e47beb-e07a/

Evaluation of the Paper Prototype- Tests:

Step	Expectation
Click 'Create Quiz' button	Quiz Creation Page displays
Click 'Save' button	Checkmark confirming progress saved displays
Click 'Add Question' button	Question and Answer fields display
Click 'Save' button	Checkmark confirming progress saved displays
Click 'Delete' button	Question and Answer fields should no longer display
Click 'Add Question' button	Question and Answer fields display
Click 'Create Link' button	Modal Pop-Up with message and link to quiz display
Click 'Close' button	Quiz Creation Page displays
Click 'Create Link' button	Modal Pop-Up with message and link to quiz display
Click 'Take Quiz' button**	Quiz Page displays
Click 'Submit' button	Modal Pop-Up with message and results
Click 'Close' button	Quiz Page displays
Click 'Retake' button	Quiz Page displays (no questions answered)

**This is not a feature we intend for the computer prototype, but because of the paper protype having limitations, we wanted a way for the user to get to the quiz page.

Feedback on the Paper Prototype:

User 1 (Former Professor):

1. There isn't much going on the home page.

2. Very simple functionality.

3. Do I select the option (a) b) c) d)) or do I need to rewrite the correct answer?

4. The pop-up is simple and to the point.

User 2 (Student):

1. Like every other quiz we take.

2. Will the professor be able to see that I take a quiz?

3. What happens if the time runs out?

4. Straight-forward quiz.

User 3 (Former Professor):

1. Am I only able to create quizzes with this application?

2. No logo or mascot, no branding can be seen. How do you expect people to remember to use this?

3. What if I forget to copy the link? Is there any records of the work I just did?

5. What is the purpose of the save? Would I be able to continue this later?

6. Can I not do different types of answers like True or False, Matching, Multiple Correct Answers?

7. I think this needs more functionality.

8. Why would I take the quiz after making it. (We did advise this is not a current feature but placed for the paper prototype only).

What we took from the feedback:

The features and concerns the users expressed we were aware of and have looked into implementing. However, some of those features were not possible to implement in the amount of time of this course. We will explain those features in more detail with the Computer Prototype which is almost the same as the Paper Prototype.

Computer Prototype (video):
https://drive.google.com/drive/folders/1CFqyPfbJixZ1AMTux_UaCFvkU70eUgJ0?usp=sharing

Evaluation of the Computer Prototype:

Step	Expectation
Click 'Create Quiz' button	Quiz Creation Page displays
Click 'Save' button	Checkmark confirming progress saved displays
Click 'Add Question' button	Question and Answer fields display
Click 'Save' button	Checkmark confirming progress saved displays
Click 'Delete' button	Question and Answer fields should no longer display
Click 'Add Question' button	Question and Answer fields display
Click 'Create Link' button	Modal Pop-Up with message and link to quiz display
Click 'Close' button	Quiz Creation Page displays
Click 'Create Link' button	Modal Pop-Up with message and link to quiz display
Copy and paste the quiz link into your browser	Quiz Page displays
Click 'Submit' button	Modal Pop-Up with message and results
Click 'Close' button	Quiz Page displays
Click 'Retake' button	Quiz Page displays (no questions answered)

Feedback on the Computer Prototype:

We allowed the user to watch the video to provide feedback.

User 1 (Former Professor):

1. Homepage looks the same. Did you make any changes?

2. Very simple functionality.

3. I still do not know which input to put for correct answer. Either new functionality or clearer instructions.

User 2 (Student):

1. Quiz looks the same.

2. I like that the timer moves with the screen, so I do not need to take time to scroll back up to see it.

3. Quick results are nice to have.

User 3 (Former Professor):

1. I see zero changes on the home page.

2. Same questions and concerns as before when reviewing the paper prototype.

3. I would still love more options of the type of questions I can create.

What we took from the feedback:

Previously explained, many of the concerns and suggestions provided we were aware of and wanted to implement into this prototype. One of those features was emailing the professor a link for their record in the situation where they may forget to copy the quiz link. Another feature we wanted to implement is the ability to change the question type (i.e. multiple correct answers, matching, and True or False).

These features we could not implement into this version of the prototype due to time constraints. If we had more time these features would have been added and we see the value in those features from a User Interactions standpoint.

Implementation: https://quizemsnew.firebaseapp.com/#/

Evaluation of our System:

Step	Expectation
Click 'Create Quiz' button	Quiz Creation Page displays
Click 'Save' button	Checkmark confirming progress saved displays
Click 'Add Question' button	Question and Answer fields display
Click 'Save' button	Checkmark confirming progress saved displays
Click 'Delete' button	Question and Answer fields should no longer display
Click 'Add Question' button	Question and Answer fields display
Click 'Create Link' button	Modal Pop-Up with message and link to quiz display
Click 'Close' button	Quiz Creation Page displays
Click 'Create Link' button	Modal Pop-Up with message and link to quiz display
Copy and paste the quiz link into your browser	Quiz Page displays
Click 'Submit' button	Modal Pop-Up with message and results
Click 'Close' button	Quiz Page displays
Click 'Retake' button	Quiz Page displays (no questions answered)

The computer prototype (video) is the same as the implementation. We allowed all the users to try out the implementation and they had the same comments as before. While it is simple, there could be improvements in the functionality and features. The user felt that the initial idea met the needs of the professors and students, but that the current implementation will need major updates and additional features if a large pool of users plan on using this for their classes. We agree with their points and if we decide to continue with development, we will focus on these comments and suggestions.