

Group # 4

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06-29-2019

SWE 6783 User Interactions

Project Deliverable # 3

Project Title: QuizEms

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

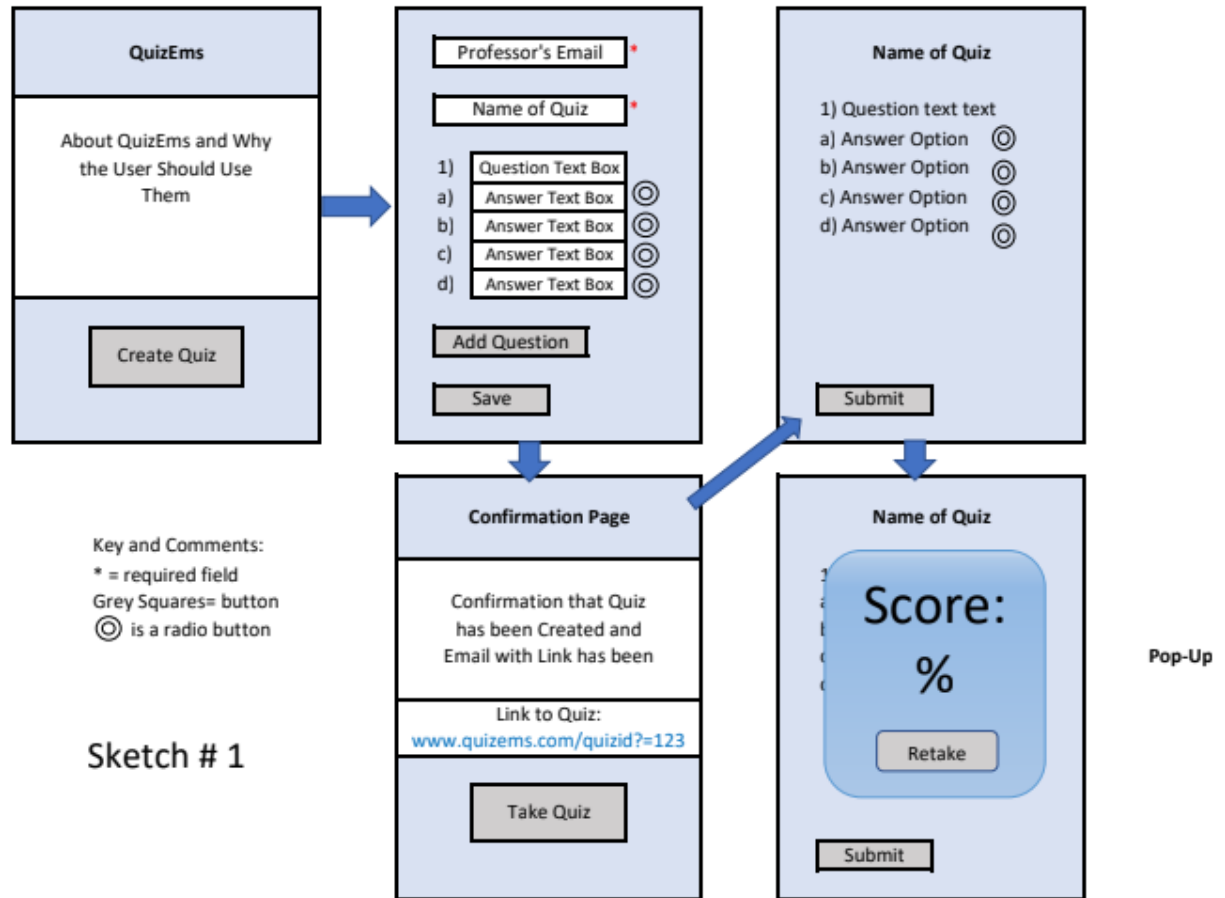
Content: Sketches with Feedback, Rating, Selected Sketches, Re-Sketches, Statement on Selected Sketches, Final Design based on Functionality

Github URL: <https://github.com/clincol2/UISummerProject/tree/master>

Please continue to the next page to view the content.

Sketches with Feedback:

Figure 1 (Chloe):



i. Rating (1- 8; 1 best; 8 worst): 6

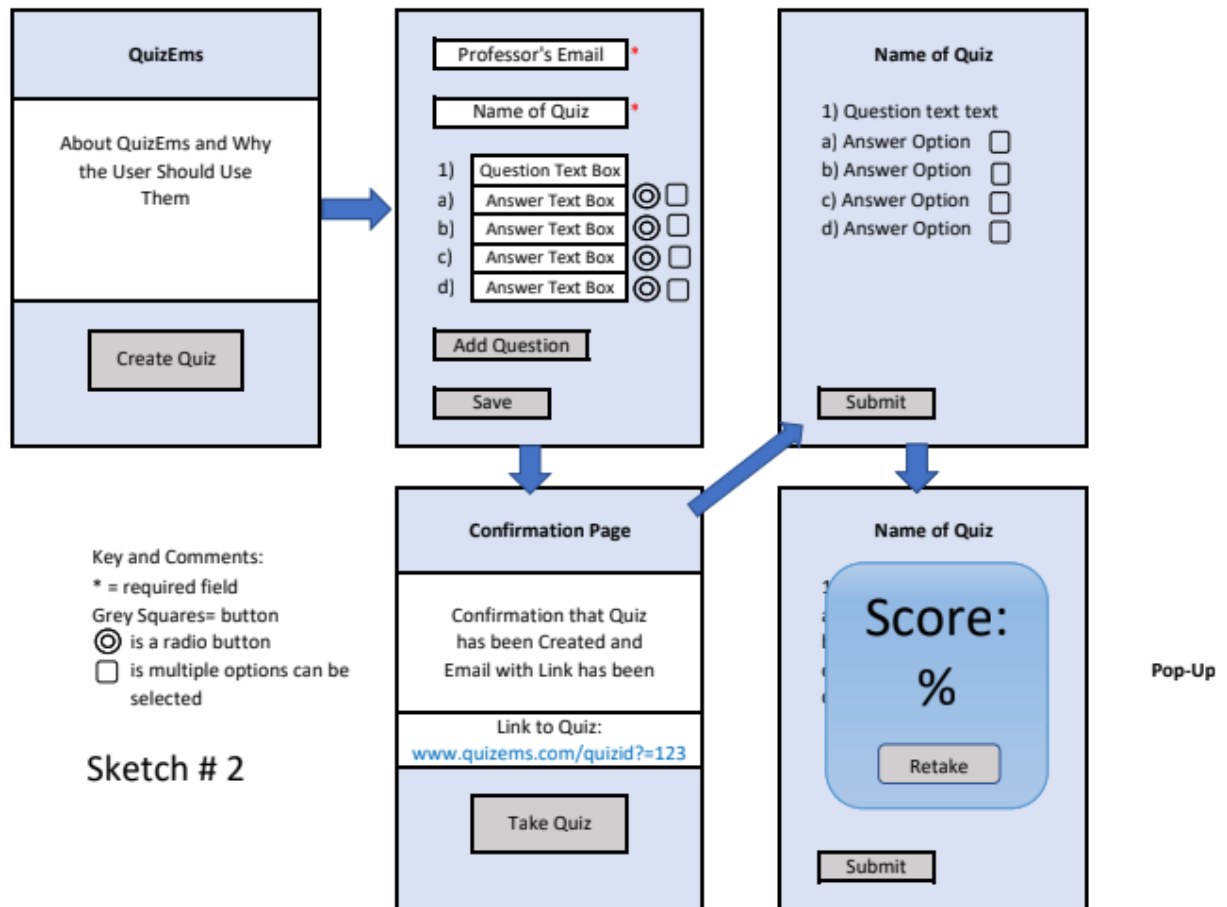
ii. Strength: Easy to follow. Clear flow.

iii. Weakness: Very limited options. More options should be added.

iv. Feasibility (1-5; 1 worst; 5 best): 4

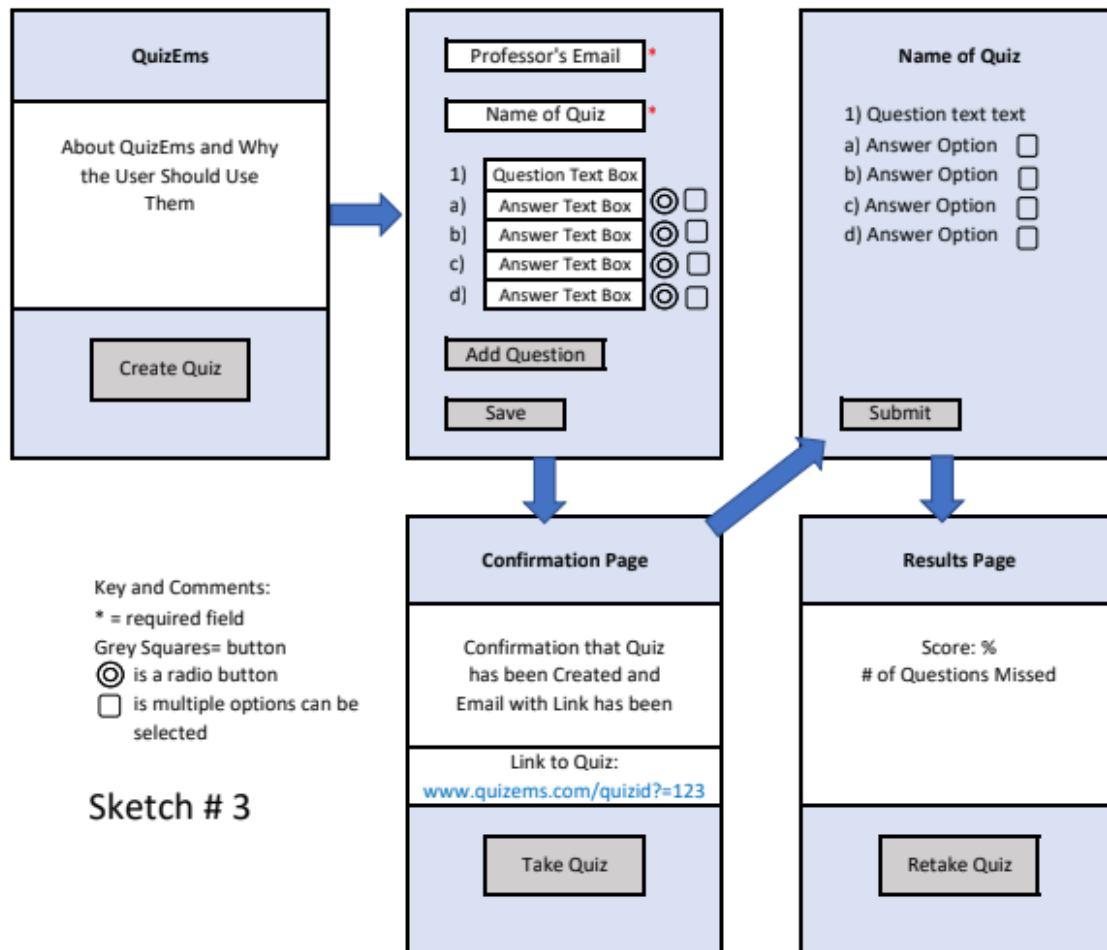
v. Originality (1-5; 1 worst; 5 best): 1

Figure 2 (Chloe):



1. Rating (1- 8; 1 best; 8 worst): 3
2. Strength: Easy to follow. More option. Clear flow.
3. Weakness: Could include more options.
4. Feasibility (1-5; 1 worst; 5 best): 3
5. Originality (1-5; 1 worst; 5 best): 3

Figure 3 (Chloe):



1. Rating (1-8; 1 best; 8 worst): 1

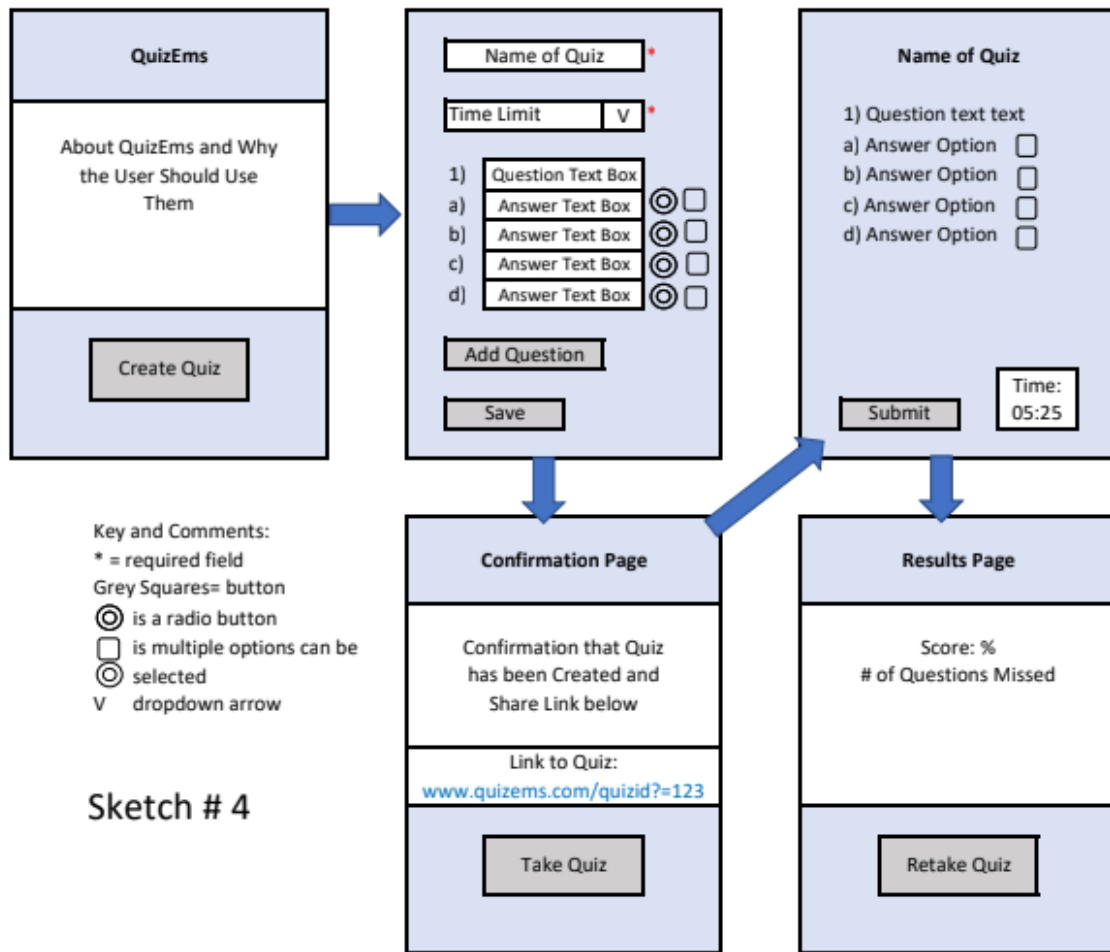
2. Strength: Easy to follow. More options. Clear flow. More information on the results page.

3. Weakness: Could include more options.

4. Feasibility (1-5; 1 worst; 5 best): 3

5. Originality (1-5; 1 worst; 5 best): 2

Figure 4 (Chloe):



1. Rating (1- 8; 1 best; 8 worst): 4

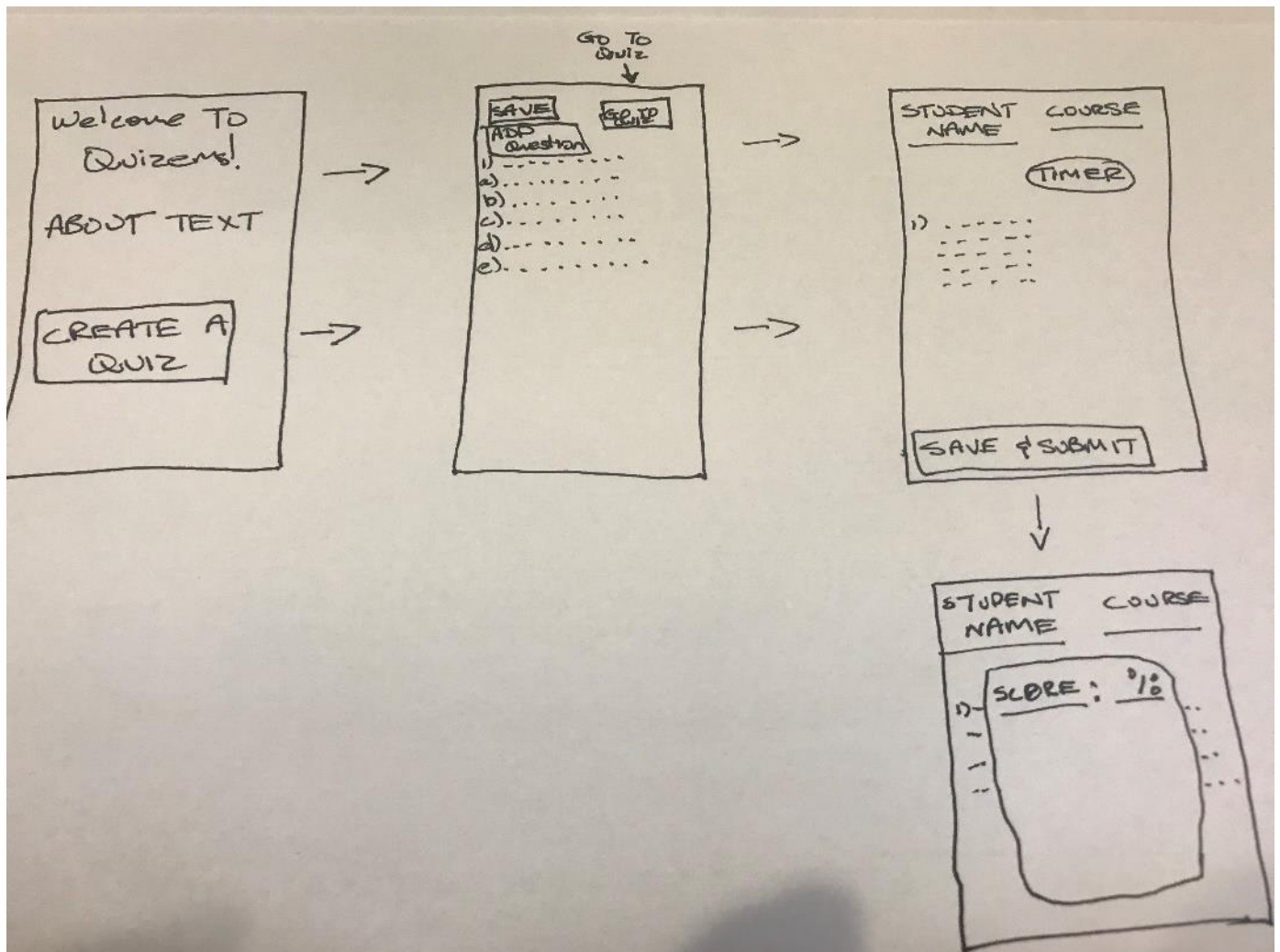
2. Strength: Clear flow. Easy to follow. Several options. Timer option added. More information on the results page.

3. Weakness: No email is sent to the professor with a copy of the link to the quiz they created. If the professor forgets to copy the link, it will be difficult to locate again and share with their students.

4. Feasibility (1-5; 1 worst; 5 best): 1

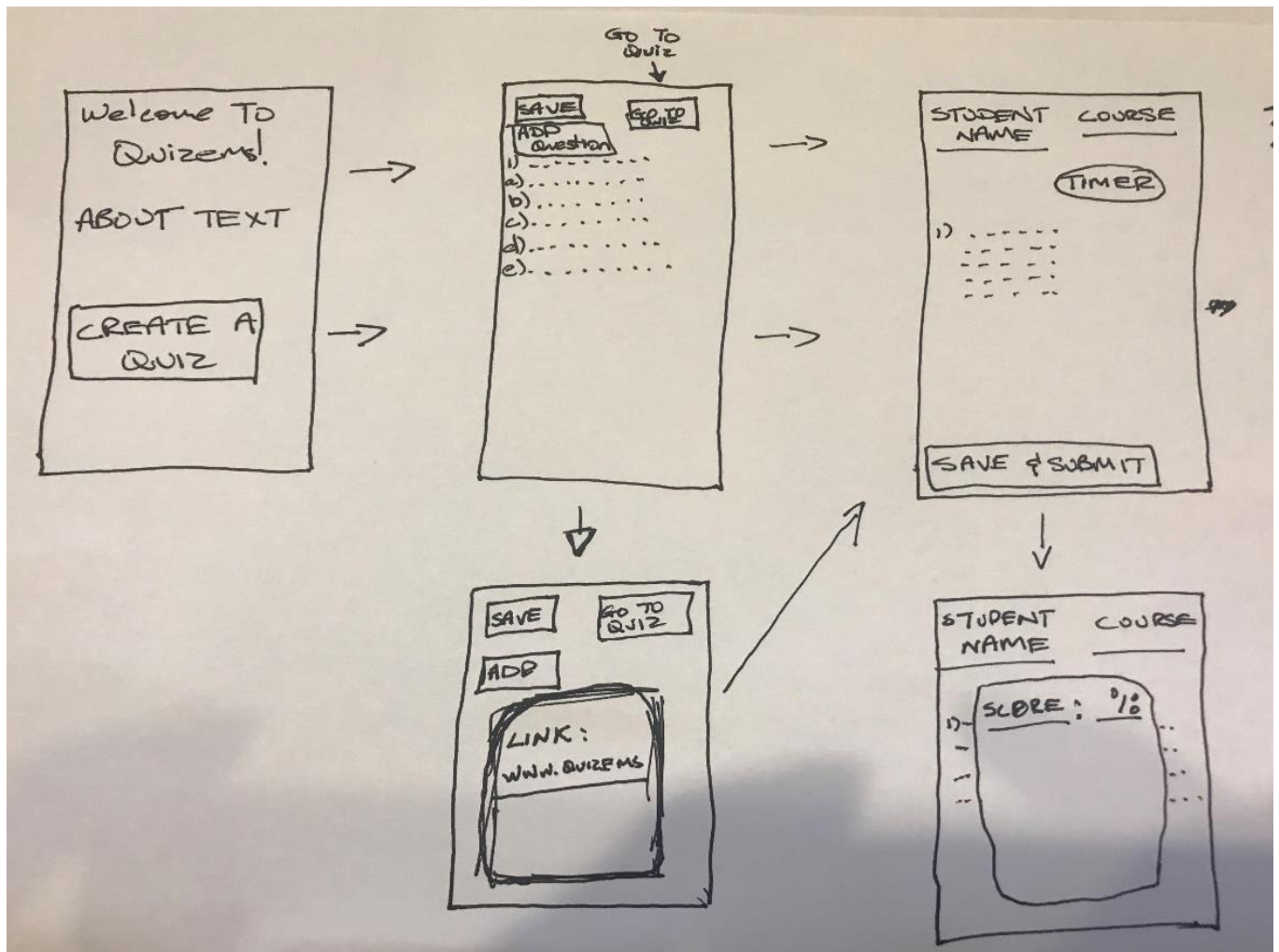
5. Originality (1-5; 1 worst; 5 best): 2

Figure 5 (Phillip):



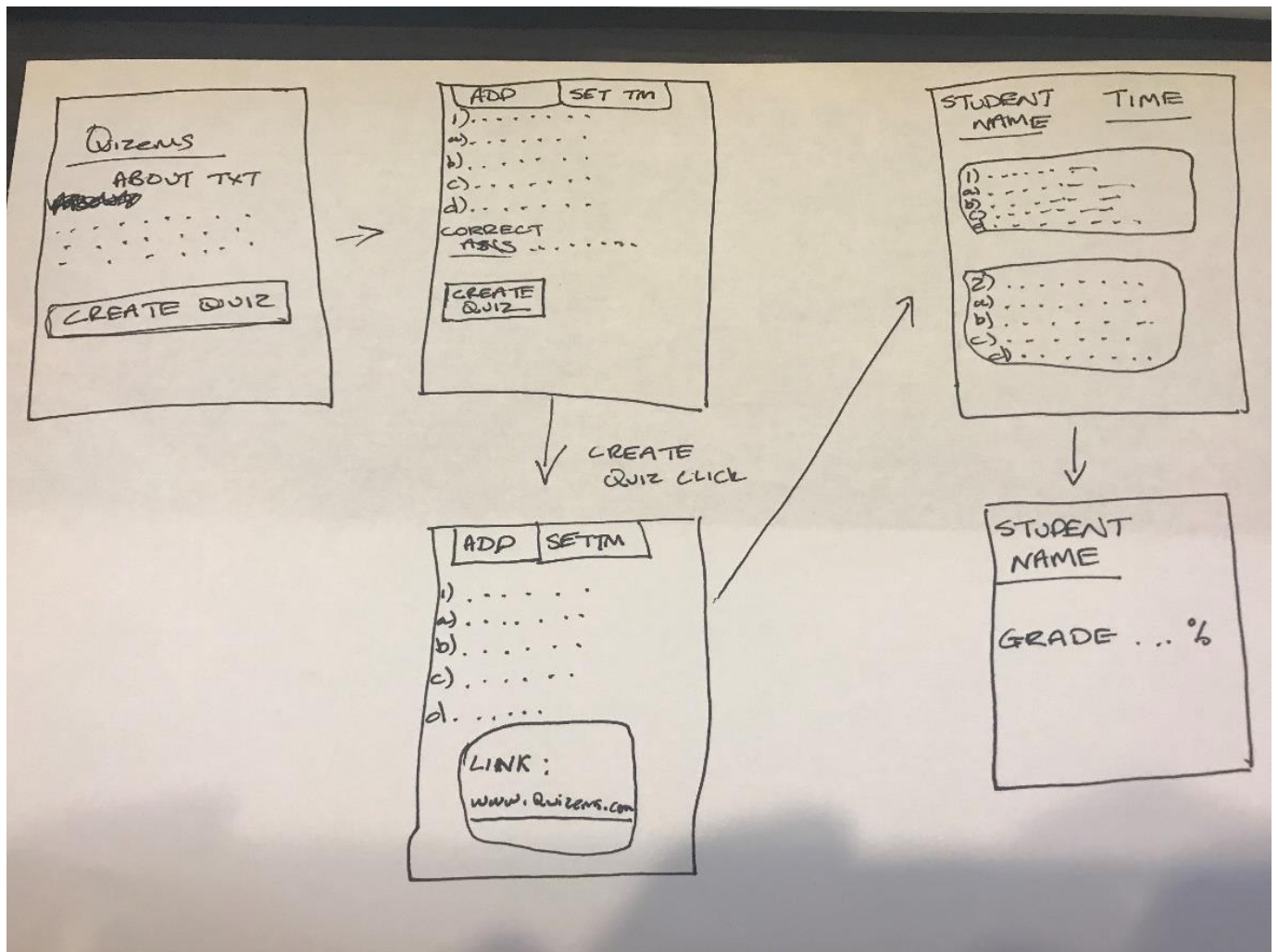
1. Rating (1- 8; 1 best; 8 worst): 7
2. Strength: Clear flow. Basic needed functions.
3. Weakness: Uncommon button placement. Student's lose their anonymity. Less options. No email option. No place to set timer settings on quiz creation page. No ability to retake quiz from within the application.
4. Feasibility (1-5; 1 worst; 5 best): 1
5. Originality (1-5; 1 worst; 5 best): 1

Figure 6 (Phillip):



1. Rating (1- 8; 1 best; 8 worst): 8
2. Strength: Clear flow. Basic needed functions. More options than Figure 5. Option to create more quizzes.
3. Weakness: Uncommon button placement. Student's lose their anonymity. Less options. No email option. No place to set timer settings on quiz creation page. No ability to retake quiz from within the application.
4. Feasibility (1-5; 1 worst; 5 best): 3
5. Originality (1-5; 1 worst; 5 best): 2

Figure 7 (Phillip):



1. Rating (1- 8; 1 best; 8 worst): 2

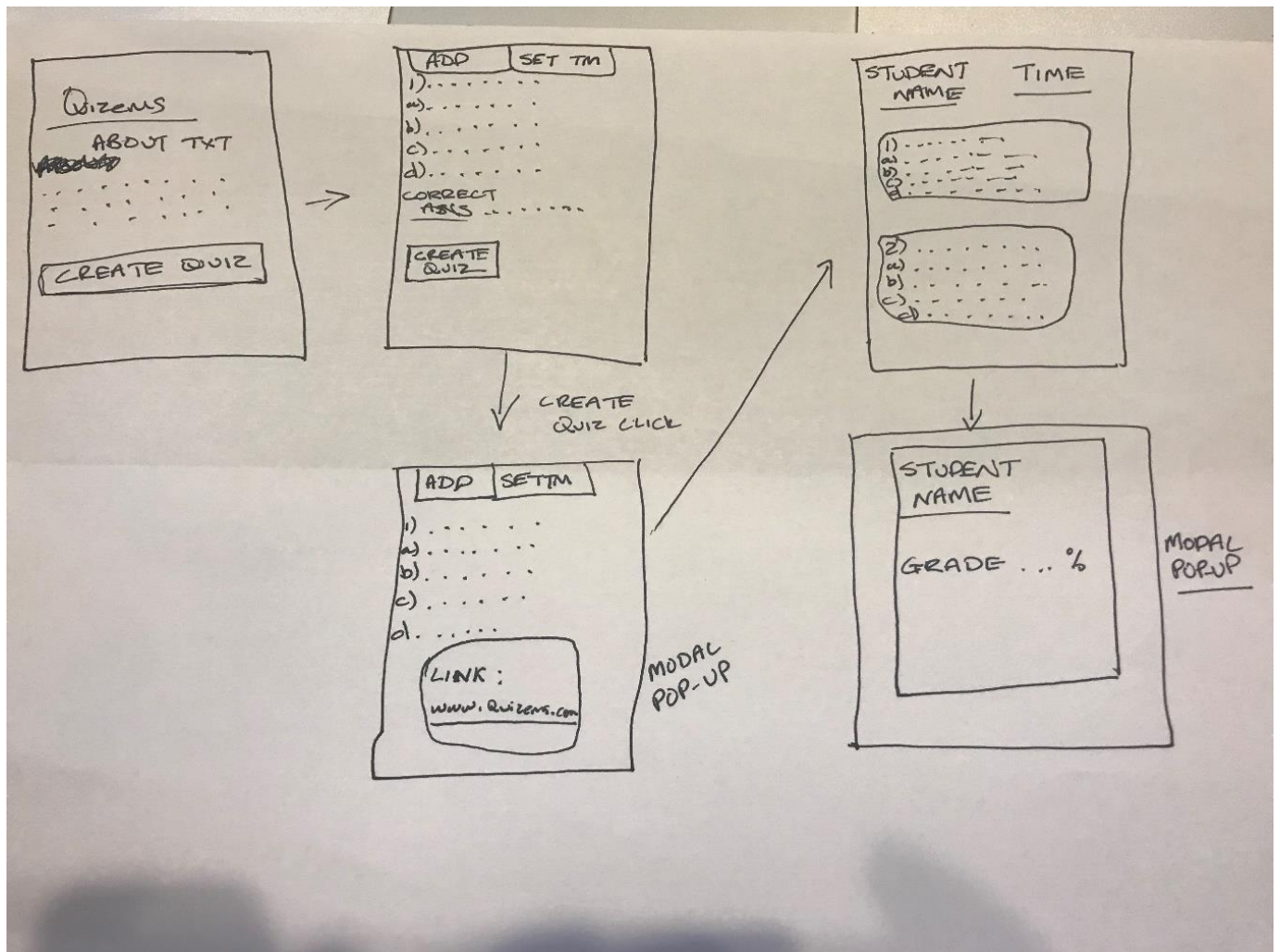
2. Strength: Clear Flow. Better button placement. Logical option to create key at the end. Ability to set a timer on the quiz creation page. Option to create more quizzes.

3. Weakness: No email option. Student's do not have anonymity. No ability to retake quiz from within the application.

4. Feasibility (1-5; 1 worst; 5 best): 2

5. Originality (1-5; 1 worst; 5 best): 1

Figure 8 (Phillip):



1. Rating (1- 8; 1 best; 8 worst): 5

2. Strength: Clear Flow. Better button placement. Logical option to create key at the end. Ability to set a timer on the quiz creation page. Option to create more quizzes.

3. Weakness: No email option. Student's do not have anonymity. No ability to retake quiz from within the application.

4. Feasibility (1-5; 1 worst; 5 best): 3

5. Originality (1-5; 1 worst; 5 best): 2

Ratings in Order:

1. Figure 3
2. Figure 8
3. Figure 2
4. Figure 4
5. Figure 7
6. Figure 1
7. Figure 5
8. Figure 6

Selected Sketches:

Figure 3

Figure 8

Figure 2

Re-sketches:

Figure 3:

Figure 8:

Figure 2:

Statement on Selected Sketches:

Figure 3:

Figure 3 was rated the best because of the ease of flow, learnability and the amount of options it contains. This sketch eliminates most risks and problems a user may encounter, one of those being, requesting their name. Some weaknesses of Figure 3 is that more features would be nice. The ability to add a time limit would be important, which was not added to this sketch. We believe this sketch embodies most of what we want to include in this product and addresses many of the concerns professors and students have around practice quizzes. It meets the needs of our users by providing a sharable practice quiz that is easy to create and the ability to remain anonymous when the student's take the quiz, with immediate results for their eyes only.

Figure 8:

Figure 8 was rated the second best because of the clear flow and additional features that Figure 3 did not contain. It was also unique to Figure 3 and 2 in that the professor creates a key at the end instead of at the point of question creation. This was considered neutral as some professor may like it and others may not (50:50 chances). Some weaknesses we identified with Figure 8 is that there is no feeling of anonymity for the students. While we have no intention of creating a database of every person who takes that quiz with their name and results, it may deter students from taking the quiz, which would then defeat the purpose of QuizEms. Overall, the sketch meets the needs of the users as it provides an easy solution to creating a quiz with additional features that would provide a better experience.

Figure 2:

Figure 2 was rated the third best because of many of the same reasons as Figure 3. Figure 2 contains all of the same features, flows and fields as Figure 3. The only noticeable difference is that on the Results page, it is modal pop-up versus a separate page. A weakness we identified with this sketch is that there are less features than Figure 8. Other than the weakness mention, the strengths are the same and it still meets the needs of the users. It provides an easy to follow and learnable application to create quizzes, ability to share the quiz and quick results once the quiz is taken.

Must Have Features:

We have discovered between all of our sketches what features we want to combine to create a final design.

1. Ability to email the quiz's link to the professor for record purposes.
2. Ability to add questions.
3. Ability to set a timer function.
4. Name of the Quiz will be a required text field.
5. Link that is able to be copied from the site immediately.
6. Student's score displays with a percentage (We have not decided officially if it will be Separate page of Modal Pop-Up)
7. Ability to select the correct answer when creating the questions and answers

Optional Features:

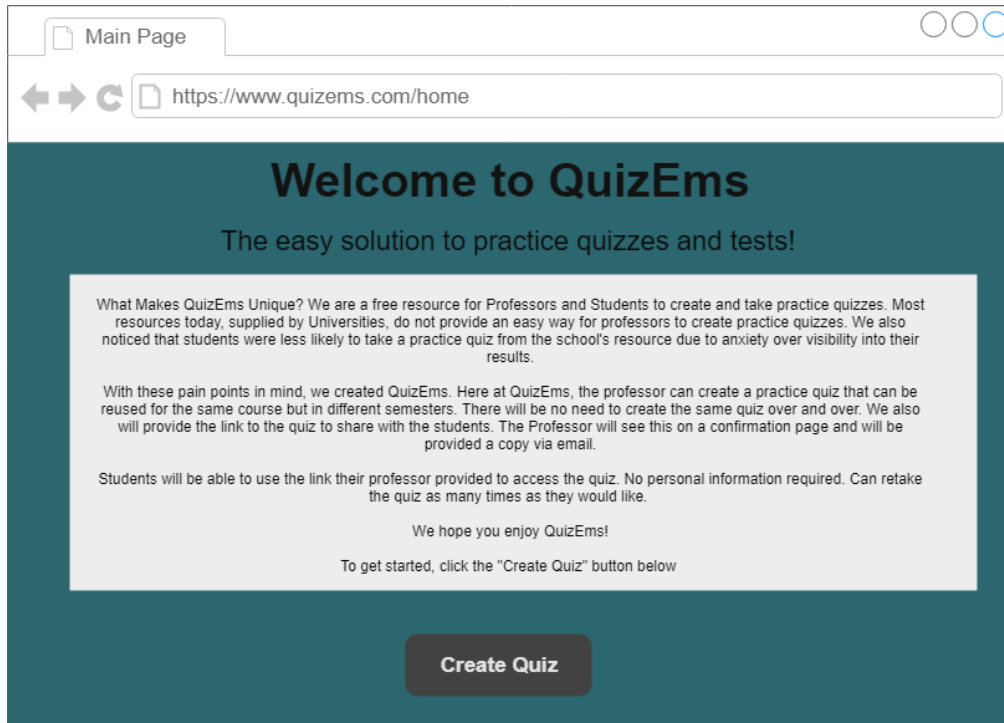
We identified features we would like to have if we are able to include them in time but are not vital to the function and objective of this application.

1. Ability for the professor to take the quiz immediately after its creation.
2. Ability to change question type
3. Ability to allow the professor to format the question to have only one correct answer selectable (radio buttons) or several correct answers selectable (check boxes)
4. Ability for the student to retake the quiz from the Results Page

Please continue to the next page for more content.

Final Design based on Functionality:

This may change depending on the scope of work to have a working prototype developed. This only includes the “Must Have Features” listed previously in this document.



A browser window showing the homepage of QuizEms. The browser tab is labeled "Main Page" and the address bar shows "https://www.quizems.com/home". The page has a dark teal background. At the top, it says "Welcome to QuizEms" in large white text, followed by "The easy solution to practice quizzes and tests!" in smaller white text. Below this is a white box containing text explaining the service. At the bottom of the page is a dark grey button labeled "Create Quiz".

What Makes QuizEms Unique? We are a free resource for Professors and Students to create and take practice quizzes. Most resources today, supplied by Universities, do not provide an easy way for professors to create practice quizzes. We also noticed that students were less likely to take a practice quiz from the school's resource due to anxiety over visibility into their results.

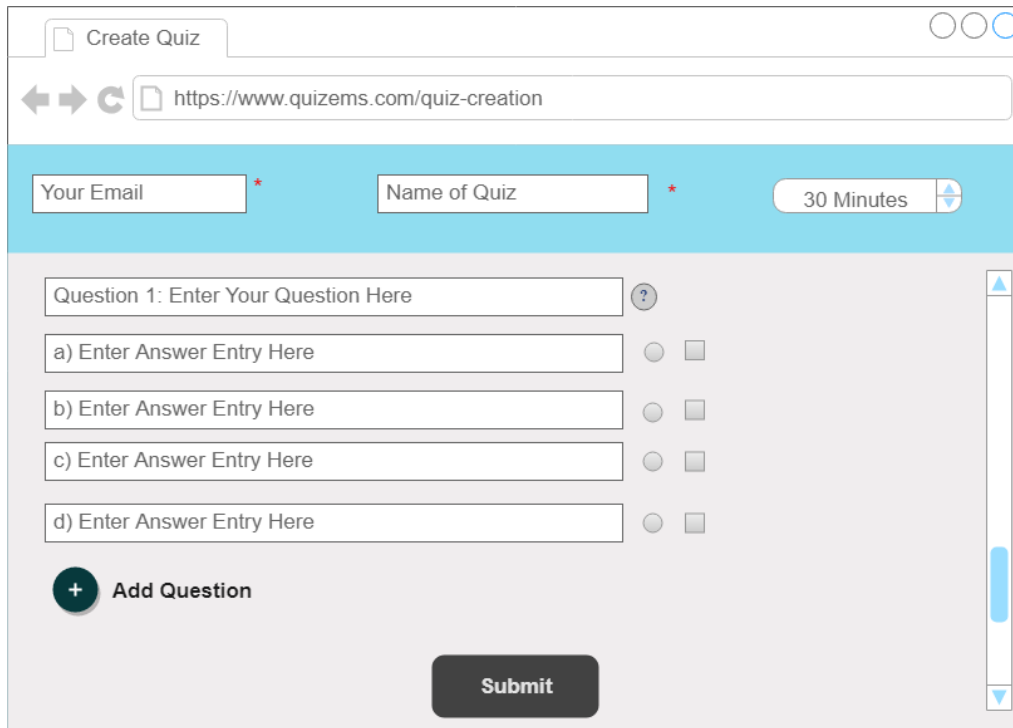
With these pain points in mind, we created QuizEms. Here at QuizEms, the professor can create a practice quiz that can be reused for the same course but in different semesters. There will be no need to create the same quiz over and over. We also will provide the link to the quiz to share with the students. The Professor will see this on a confirmation page and will be provided a copy via email.

Students will be able to use the link their professor provided to access the quiz. No personal information required. Can retake the quiz as many times as they would like.

We hope you enjoy QuizEms!

To get started, click the "Create Quiz" button below

Create Quiz



A browser window showing the "Create Quiz" page. The browser tab is labeled "Create Quiz" and the address bar shows "https://www.quizems.com/quiz-creation". The page has a light blue header bar. Below the header, there are three input fields: "Your Email" with a red asterisk, "Name of Quiz" with a red asterisk, and a "30 Minutes" dropdown menu. Below these is a large text area for "Question 1: Enter Your Question Here" with a question mark icon. Underneath are four rows for multiple-choice answers, each with a label (a, b, c, d), an input field, a radio button, and a checkbox. At the bottom left is a green circular button with a plus sign and the text "Add Question". At the bottom center is a dark grey button labeled "Submit". A vertical scrollbar is on the right side.

Your Email * Name of Quiz * 30 Minutes

Question 1: Enter Your Question Here ?

a) Enter Answer Entry Here ☐ ☐

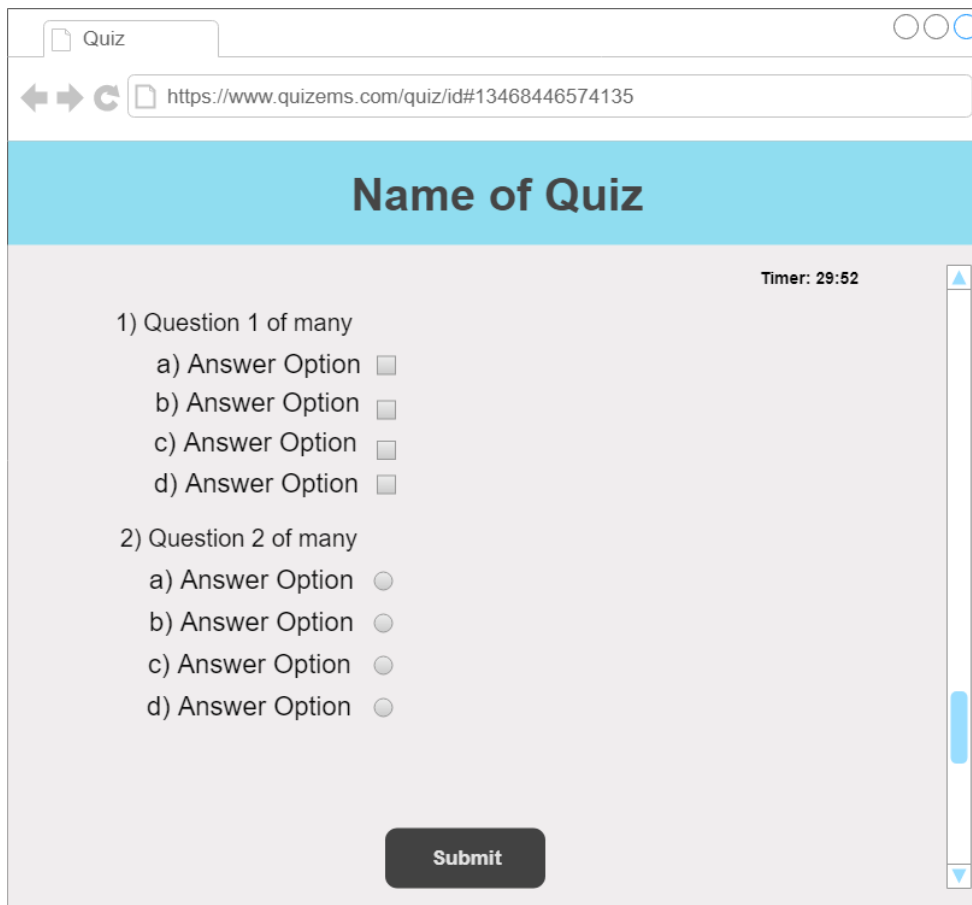
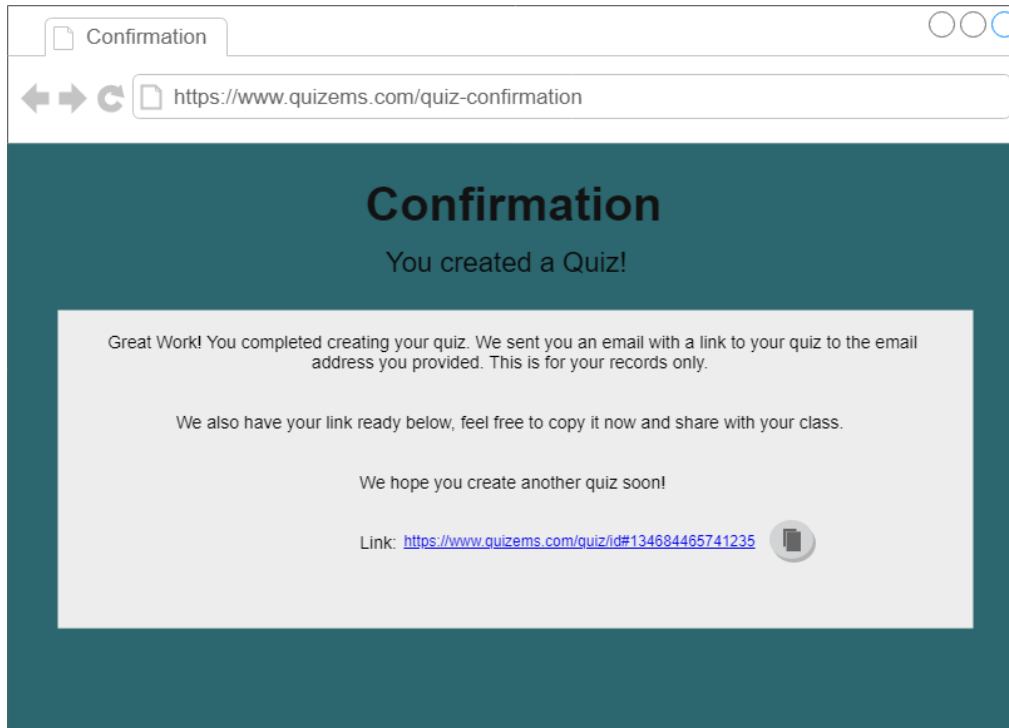
b) Enter Answer Entry Here ☐ ☐

c) Enter Answer Answer Entry Here ☐ ☐

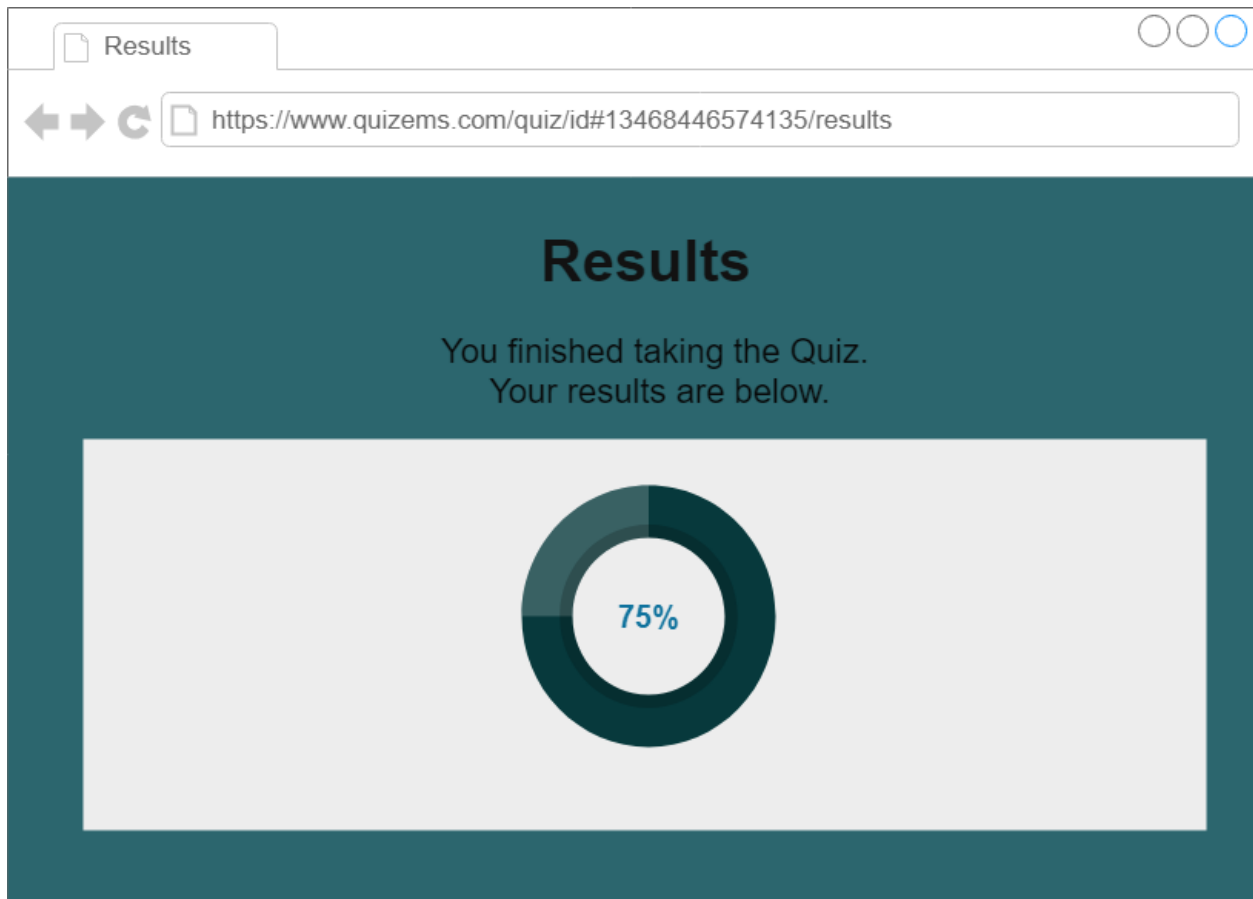
d) Enter Answer Entry Here ☐ ☐

+ Add Question

Submit



(This may change if we decided to go with a Modal Pop-Up instead of a Separate Page).



Link to all Sketches for better Resolution:

<https://drive.google.com/drive/folders/1WFAjS2Ulj3UNbbbmRmfNDqyBiqw-ZhA4?usp=sharing>