

Group # 4

The Hitchhikers: Chloe Lincoln, Phillip DaCosta

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SWE 6783 User Interactions

Project Deliverable # 2

Project Title: QuizEms

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

Content: User Analysis, Task Analysis and Domain Analysis.

User Analysis:

User Characteristics	QuizEms customer characteristics, by group		
	College Students	Professors	Admin
Age	18+	25+	20+
Sex	Both Male and Female	Both Male and Female	Both Male and Female
Educational Background	Completed High School or Equivalent. Currently Pursuing a degree (Undergraduate or higher).	Completed college education and any other certifications.	Currently pursuing a college degree or has completed their higher education.
Physical Limitations	Most likely fully able-bodied but may have some physical limitations. Will be of varying heights.	Most likely fully able-bodied but may have some physical limitations. Will be of varying heights.	Most likely fully able-bodied but may have some physical limitations. Will be of varying heights.
Computer/ IT use	Will most likely have prior experience of computer work. Possibly IT use as well.	Will most likely have prior experience of computer work and IT use.	Will most likely have prior experience of computer work and IT use.
Motivation	Probably motivated to use QuizEms in relation to future exams and quizzes in their classes.	Could be very motivated to use QuizEms for their classes, especially if they can repeatedly use the same practice quiz for future semesters.	Could be very motivated to develop and maintain QuizEms, especially if it means they understand User Interactions because of it.
Attitude	Attitudes to use will vary, depending on the ease of the practice test/quiz as well as the reliability of the application.	Attitudes to use will vary, depending on the simplicity to create a practice test/quiz, the ability to share the test/quiz and the reliability of the application.	Attitudes may vary, depending on the difficulty of creating and maintaining QuizEms.

Task Analysis:

Goal(s)- Create a practice quiz or test. Take a practice quiz or test. Share a practice test or quiz.

Preconditions- The application has the capacity for all desired questions. The application provides an accurate grade once the practice quiz or test is completed. The link to the test or quiz is correct and links the user to the correct practice quiz or test.

Subtasks- 1. Add questions and answers. 2. Edit questions and answers. 3. Submit the questions and the answers. 4. Select an answer to the quiz. 5. Submit all answers to the quiz. 6. Review grade on accuracy of answered questions. 7. Ability to retake quiz.

Questions and Answers for the task-

Q: What type of questions can be added?

A: Multiple choice. True or False. Matching.

Q: How often will the user need to create a practice test/quiz?

A: Varies. Should only need to create once per topic/course/semester.

Q: How often can the user take the same practice test/quiz?

A: As often as they want as long as the quiz is valid in the application.

Q: What is its time or resource constraints when creating the test/quiz?

A: A few minutes or longer, depending on how long the user would like to make the practice test/quiz.
No constraints.

Q: What is its time or resource constraints when taking the test/quiz?

A: Varies. Can take as long as they want, no constraints.

Q: Where is the task performed?

A: On a web browser; internet connection necessary.

Q: How is the task learned?

A: By trying it. By watching others. By being shown by other users who have previously used the application.

Q: What can go wrong? (Exceptions, errors, emergencies)

A: Application maintenance blocking users from using the application. The user deletes the email with the sharable link. The user loses internet connection and cannot access the application. The user loses internet connection in the middle of taking the test/quiz and loses all their progress.

Interview Questions and Answers:

Student:

Interviewee: Chloe Lincoln, current Graduate Student at Kennesaw State University

1) Yes or No: Do you like taking practice quizzes?

Chloe Lincoln: Yes

2) Yes or No: Do you like taking practice quizzes through your school's online resource?

Chloe Lincoln: No

3) Yes or No: Would you be more inclined to take a practice quiz if you are completely anonymous?

Chloe Lincoln: Yes

4) Yes or No: Would you be opposed to a time limit if the professor adds it to the practice quiz?

Chloe Lincoln: No

5) Yes or No: Would you be willing to use an outside resource to take your practice quiz?

Chloe Lincoln: Yes

Professor:

Interviewee: Allan Fowler, current professor at Kennesaw State University

1) On a scale of 1 to 10 (1 being the worst, 10 being the best), how easy is it to use the current quiz function in D2L?

Allan Fowler: Poor 2

2) Yes or No: Do you find it irritating to recreate quizzes each semester?

Allan Fowler: Not Irritating

3) Yes or No: Do you like sharing links with your students?

Allan Fowler: Yes

4) Yes or No: Would an email sent to you each time you create a quiz overwhelm you?

Allan Fowler: No

5) Yes or No: Would you dislike the quiz function if it did not allow fill in the blanks?

Allan Fowler: No

6) Yes or No: Would you dislike the quiz function if it did not allow short answers/essay portions?

Allan Fowler: Yes

Admin:

Interviewee: Phillip DaCosta, current Graduate Student at Kennesaw State University and Application Developer of QuizEms

1) Yes or No: Do you believe there is a need for a new tool to help students and professors?

Phillip DaCosta: Yes

2) Yes or No: Would you say your Application "QuizEms" will be well received by students and professors?

Phillip DaCosta: Yes

3) On a scale of 1-10 (1 being the hardest, 10 being the easiest), how simple is QuizEms to use?

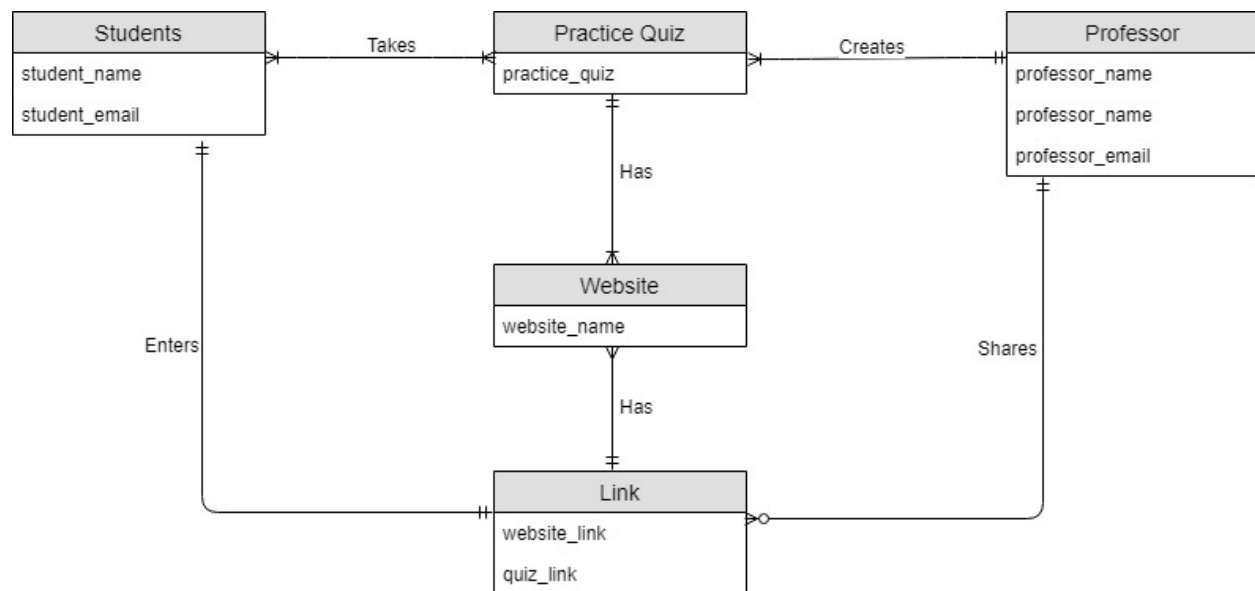
Phillip DaCosta: 10

4) Yes or No: Is QuizEms scalable for future enhancements?

Phillip DaCosta: Yes

Conclusion: QuizEms seems to align with a desire for a better resource to create practice quizzes. The current resources professors have are not user friendly and the students desire a resource that will keep their anonymity. From the admin's view, this is a desired product and they are fully motivated to provide a resource that eliminates these two pain points the users face today. With the ability to add features to QuizEms, this could be a resource that many professors and students use across several Universities.

Domain Analysis:



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