

Homework #3: Architecture and Feature Documentation

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Discussion:

In Homework #3, we were given the task of adding functionality to the Quiz Maker application by using JQuery / Javascript to improve the application's look and feel. One of our main goals was to add enough functionality to give our users enough control so that the Quiz Maker application feels intuitive, but not too much control to where they feel like the application is far too complex. In order to put our users in control of our application, we used JQuery for the Architecture and brought our users necessary Quiz Maker tools that will allow them to make quizzes quickly.

Feature:

For our HTML template, we chose to use the **Wire Frame 2 Electric Boogaloo** HTML template to implement the Quiz Maker functionality. The new features and functionality include:

- **Quiz Title:** User will be able to give their quiz a name(e.g. Philosophy Final Exam).
- **Preview:** Allows the user to preview their quiz before publishing it.
- **Multiple Choice:** Users will be able to add multiple choice questions to their exams.
 - a. **Add Another Option:** Users will be able to add additional answers to multiple choice questions.
 - b. **Delete Extra Answers:** Users will be able to delete all, but two answers from the multiple choice questions.
- **True / False:** Users will be able to add True/False questions to their exams.
- **Fill in the Blank:** Users will be able to add Fill in the Blank questions to their exam, which they will enclose the correct answers in braces.
- **Short Answer:** Users will be able to add Short Answer questions to their exam.
- **Delete Question:** Users will be able to delete any question by clicking the trash can icon in the upper right hand corner.
- **Point Value:** Users will be able to assign point values to different questions, which will update in real time to let the user know what the total points are for the exam.
- **Time:** Users can specify a time limit for the exam.

JQuery:

When designing the architecture for our Quiz Maker application, we wanted to allow the users to create quizzes quickly and efficiently. To accomplish this we used JQuery, which allows developers to create powerful features and to increase usability to the user.

- **Hot-key:** We implemented hot-keys that allow the user to create quizzes quickly.
 - a. **<CTRL> + <ALT> + <M>:** Inserts a multiple choice question at the bottom of the page.
 - b. **<CTRL> + <ALT> + <T>:** Insert a true/false question at the bottom of the page.

- c. <CTRL> + <ALT> + <F>: Inserts a Fill in the Blank question at the bottom of the page.
- d. <CTRL> + <ALT> + <W>: Inserts a Short Answer question at the bottom of the page.
- e. <CTRL> + <ALT> + <P>: Allows a user to preview the quiz that they are working on.
- f. <CTRL> + <ALT> + <S>: Allows a user to save the quiz that they are working on.
- **Sectioning:** We implemented a way for users to add sections to their quizzes, in order to make much more organized quizzes. The user will also be able to rename the sections to fit their needs.
- **Adding Questions:** When a user clicks to add a question, we used JQuery to generate an HTML5 template for the question that the user clicked.
- **Real-Time Point Updates:** When a user enters points into the points text fields located in the upper right hand corner, our application updates the points in real time to allow the user to see the total amount of points their quiz is worth.