

SimpleQ Quiz Generator

PROJECT TEAM

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Features Implemented and Features Left Out

Features Implemented

- User being able to create account with Faculty Permissions
- User authentication (Login)
- Set permissions for Faculty (Creating quizzes)
- Consistent user session between pages (User login info preserved)
- Account Settings
 - Option to upload profile picture
 - Profile picture displays in settings
 - Displays Faculty ID, Email, and Username
 - Ability to change profile picture
 - Ability to change Password
 - Ability to change Email
- Logout Functionality
- Quiz Generator Functionality
- Create Generated Quiz
 - Template A Quiz: Multiple Pages, Multiple Pictures
 - Template B Quiz: One Page, Multiple Pictures
 - Template C Quiz: One Page, One Picture
 - Ability to choose number of questions per quiz
- Under Make Quiz, Ability to view results from quiz created by current Faculty user
- Quiz List showing all of the quizzes made by authorize faculty users.
- Search Quiz functionality, can search for quizzes by name\
- User Documentation page to help the Faculty user know how to create and display quizzes.

Features Left Out

- Edit quiz functionality not implemented

Known Issues

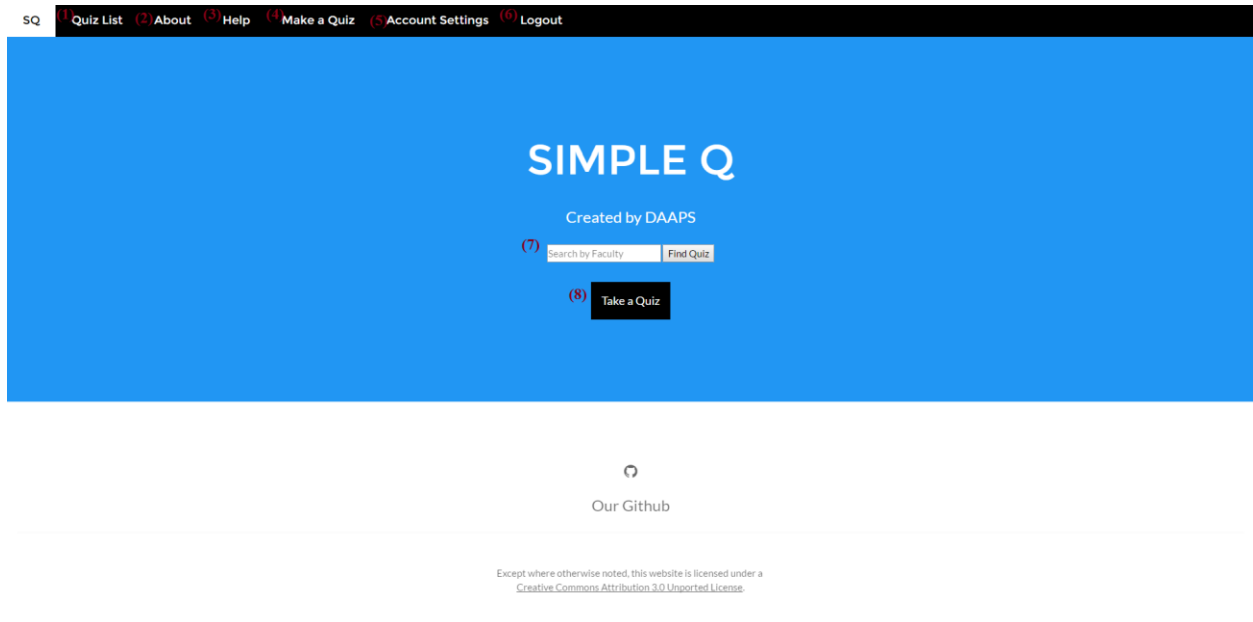
Edit Quiz

Editing the Quiz does not properly allow the user to edit, with how the code is written the PHP/HTML code is improperly formatted when it writes itself and produces a whole heap of errors.

Picture Sizing

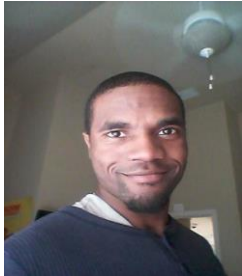
Pictures are not properly formatted either, the sizing is off and they sometimes do not display properly.

Description of Functionality



- 1) Quiz List: Displays the current listing of the Quizzes, pulls information from the database to display on the page
- 2) About Page: Displays Information about the project and the team
- 3) User Documentation: Displays the step by step guide on how to work the quiz generator
- 4) Make a Quiz: When logged in, it prompts the Quiz Generator functionality
- 5) Account Settings: Allows a logged-in user to change their account settings and review any key information
- 6) Logout button: logout of user and sends them back to the initial page
- 7) Search Function: allows user to search for a quiz by name specifically
- 8) Take a Quiz: sends a user straight to the quiz list.

Team Members and Client Information



Alvin Jean:

Project Manager & Data Modeler

Soft Dev Major

Senior at GGC

Loves Music & Coding



Palmer Simmons:

Lead Documentation & Data Assist

Soft Dev Major

Senior at GGC

Loves Gaming & Coding



Austin Seawell:

Lead Developer & UI Assist

Soft Dev Major

Current student at GGC

Likes dank memes & Coding



Demetri Clark:

UI Lead & Client Liasion

Soft Dev Major

Graduate of 2016!

Enjoys Coding



Stuart Miller:

Testing Lead & Develop Assist

Soft Dev Major

Current student at GGC



Tracy Ediger:

Client for SimpleQ

Assistant Professor of Biology

Likes hiking, baking, arts & crafts

Testing Coverage, Methods, and Results

Tests were run to test the interactions between the database and the system, the main methods testing the ability to find by id, successful table creation, and successfully populating a table.

```
// Method to test that the id is correct for the following values.
public function testFindForId() {
    $id = 1;

    $result = $this->ItemsTable->findForId($id);
    $this->assertInternalType(
        'array',
        $result,
        'The result should always be an array.'
    );
    $this->assertEquals(
        $id,
        $result['id'],
        'The id key/value of the result for id should be equal to the id.'
    );
    $this->assertEquals(
        'Candy',
        $result['firstName'],
        'The id key/value of the result for firstName should be equal to `Candy`.'
    );
    $this->assertEquals(
        'Crush',
        $result['lastName'],
        'The id key/value of the result for lastName should be equal to `Crush`.'
    );
    $this->assertEquals(
        'Stripper',
        $result['occupation'],
        'The id key/value of the result for occupation should be equal to `Stripper`.'
    );
    $this->assertEquals(
        '1924 Sucka Drive',
        $result['address'],
        'The id key/value of the result for address should be equal to `1924 Sucka Drive`.'
    );
}
```

```
// Creating a table that holds values for id, firstName, lastName, address, and occupation
protected function createTable() {
    $query = "
    CREATE TABLE `items` (
        `id` INTEGER,
        `firstName` TEXT,
        `lastName` TEXT,
        `address` TEXT,
        `occupation` TEXT,
        PRIMARY KEY(`id`)
    );
    ";
    $this->PDO->query($query);
}

// Filling the table with following values
protected function populateTable() {
    $query = "
    INSERT INTO `items` VALUES (1, 'Candy', 'Crush', '1924 Sucka Drive', 'Stripper');
    INSERT INTO `items` VALUES (2, 'John', 'Smith', '9999 The Way', 'Unemployed');
    ";
    $this->PDO->query($query);
}
```

Here are some of our test results for the above tests.

```
t tests
PHPUnit 5.6.5 by Sebastian Bergmann and contributors.

....                                         4 / 4 (100%)

Time: 182 ms, Memory: 4.50MB

OK (4 tests, 8 assertions)
```

Usability Testing and Survey Results

Before the CREATE symposium, the team decided to make a second-to-last product which implemented most of the features. This product was given to the client to administer a mock up quiz to her students and the students were provided with a survey at the very end.

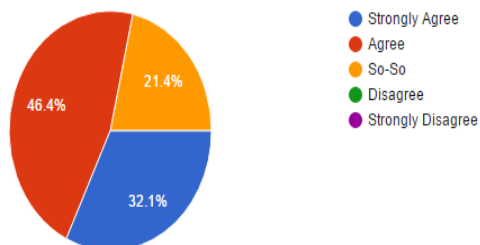
Here are some of the student's suggestions to the product:

What would you personally add to the Web App? (21 responses)

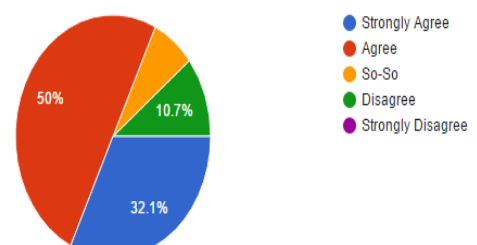
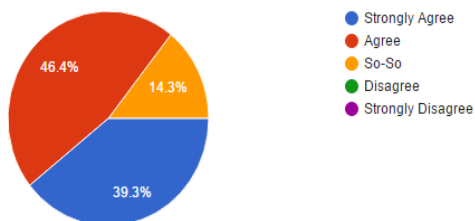
Depth and diversity.
Show the answer and explain why
An 'identify the slide' page to list which parts are which and why. To help students get familiar with the look of slides and what they're looking for. That way when the lab test come there's no question.
more questions
more hints
instant feedback on incorrect answers...as a means of taking notes for incorrect responses.
a submit button on the preview quiz after im done creating the quiz or a button that takes me straight to the quiz created to test it out..
none
the ability to set the amount of answers for each question
More visuals.
A different layout that is aesthetically pleasing and a more desirable navigation, though its not too bad.

With the suggestions, we implemented a better styling of the page and the ability for each user to receive metrics at the end of the quiz the had just taken. Overall, we refined the product with some of these suggestions and we received pretty positive feedback at the CREATE symposium!

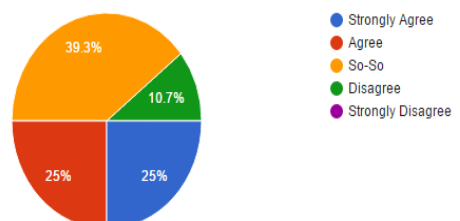
I would recommend this app to another user/student. (28 responses) I would use this tool to study over flashcards. (28 responses)



The site is navigable. (28 responses)



The site is aesthetically pleasing. (28 responses)



Overall our product received positive remarks during CREATE with a small percentage of users who are still not convinced of using the site over other study tools. As well as a small percentage of users who were not pleased with the aesthetics of the site.

User Documentation and Installation

User help Documentation is provided on our website. If users need help they can click the “Help” tab located on the navigation bar of the page.

SQ Quiz List About Help Make a Quiz Account Settings Logout

Developer Installation is provided in the readme file on our github repo which lays out how a developer can set up their environment in a way that they can effectively work on and edit the software system.

Team name: DAAPS

Repo Location URL: [GithubRepo for DAAPS](#)

Process tool and URL: [Trello board](#)

Slack Channel: [dapps channel](#)

Access to our product: [SimpleQ](#)

Team members: *below*

1. **Demetri** - *User Interface Lead & Liasion*
2. **Alvin** - *Project Manager & Data Modeler*
3. **Stuart** - *Testing Lead & Programming Assist*
4. **Palmer** - *Documentation & Data Modler*
5. **Austin** - *Lead Developer & UI Assist*

SimpleQ is a web app used for teachers to generate study tools for the use of their students. As a admin user the teacher can create a quiz, to choose between three differnt templates of quizzing. Users are also to add pictures to their quizzes as well, add the question they want, and also the answers they want. Students just have to browse to the site find the quiz they want to take and attempt it. All results are emailed to the teacher that created that quiz.

Developer Install

1. **Download files from github** : [SimpleQ Repo](#)
 - 1a. Clone the repo via a GUI or Git Bash
 - 1b. git clone <https://github.com/soft-eng-practicum/myXLab.git>
2. **Download XAMPP** : [XAMPP](#)
 - 2a. Install and Run the program
 - 2b. Start the Apache server
 - 2c. Start MySQL
3. **Run Home.php** : The localhost server should allow the user to display whatever changes they have made within their default browser.

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12/8/2016

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