CS2830 Final Project Documentation

**Final Project Link:** <http://ec2-18-207-234-161.compute-1.amazonaws.com/finalProject/index.php>

My final project web application is a web site dedicated to my scholarship house that is often overlooked because is usually unknown to other students around campus. The first page a user will see is “index.php”, which is the login page. From here, you will enter the home page and choose which page you wish to visit by navigating via my navigation bar which is a side navigation bar located in a hamburger menu.

**Requirements:**

1. **Use of HTML5 and CSS**

HTML5 and an external CSS is used for all four web pages. The five required tags are also used on all html files and php files excluding db.conf.php.

**HTML5 used for:** homePage.html, getToKnowPage.html, ourHistoryPage.html, otherHousesPage.html, navBar.html, navBar3.html, navBar4.html, footer.html, index.php, login.php, and ccQuotes.php.

**CSS used for:** login.css, home.css, getToKnow.css, ourHistory.css, otherHouses.css, navBar.css, and footer.css.

1. **Consistent Design**

A consistent design on the colors dark grey, light grey, green, white, black, and dark gold is used throughout the web pages. All web pages have a font color of black with exclusion of forms and buttons implemented. All pictures have a consistent design of a box-shadow property.

1. **Well-Structured**

Each file has comments and references for the code implemented and is easy to follow along for each web page.

1. **Login**

A login page is implemented and handles an error of incorrect username or password. The login page is the first page a user will see. The username is “test”, and the password is “pass”. If the user inputs any other username or password an error will generate, and the user will not be able to pass through the login page. Login page is implemented with MySQL Workbench database named “login.sql” and a database configuration named “db.conf.php”.

**Login page used:** index.php, login.php, login.css, login.sql, and db.conf.php.

1. **Form Elements Beyond Login**

Form elements implemented on “otherHousesPage.html”. The form elements are used as “input=image” these form elements dynamically generate a photo of a selected university’s chapter house when a university is selected. A label is also implemented, labeled “Chapter: ”, next to the selected option’s box that is a drop down menu. To begin, a box appears and says, “Select a University”.

**Form Elements Beyond Login used:** otherHousesPage.html (lines: 33-79).

1. **GET and POST**

The GET method is used for grabbing random quotes that are generated on “ourHistoryPage.html” and implemented via “ccQuotes.php”. The POST method is used for logging into the website. This is used on “index.php” and “login.php”.

**GET method used:** ourHistoryPage.html and ccQuotes.php (lines 18-29).

**POST method used:** index.php and login.php (lines: 11-33).

1. **Error Handling**

The login page handles an error of incorrect username or password. The username is “test”, and the password is “pass”. If the user inputs any other username or password an error will generate, and the user will not be able to pass through the login page.

**Error Handling used:** login.php (lines: 45-59)

1. **PHP**

PHP is used in four documents throughout the final project web pages. PHP is used first in the login page, which redirects the user to the home page with a method of POST. PHP is used in “index.php” to show an error on the login page. The second time PHP is used is to generate a random quote within the Our History page with a method of GET.

**PHP used:** index.php, db.conf.php, and login.php (used for login page: POST method PHP). ccQuotes.php (used to generate random quotes: GET method PHP).

1. **Multiple Photos**

Photos are used on every .html page. On “otherHousesPage.html” photos are used in a form and input type=“image” set up.

**Multiple Photos used:** homePage.html (lines: 38, 51), getToKnowPage.html (lines: 56, 81, 107 131, 155, 179, 204, 233, 239, 245, 251), ourHistoryPage.html (line: 31), and otherHousesPage.html (lines: 59-77).

1. **YouTube**

All YouTube videos are used on “homePage.html” web page. Two videos are implemented.

**YouTube videos used:** homePage.html (lines: 47, 55)

1. **JavaScript**

JavaScript is used heavily throughout my final project.

JavaScript is implemented in:

* onclick for my navigation bar
* timed slide show
* toggle for card flip

**JavaScript used:** navBar.html (lines: 27-35), navBar3.html (lines: 27-35), navBar4.html (lines: 27-35), getToKnowPage.js, and ourHistoryPage.js (lines: 1-6).

1. **jQuery**

jQuery is implemented to generate quotes in a random order from “ccQuotes.php” and appears on “ourHistoryPage.html” web page. The jQuery functionality can be found in “ourHistoryPage.js”. jQuery is also implemented to generate a photo from “otherHousesPage.js” when a university is selected on “otherHouses.html” web page. jQuery is also used to load the nav bar and footer on each .html page (nav bar load excludes “getToKnowPage.html). The content is loaded using an id.

**jQuery used:** ourHistoryPage.js (lines: 8-11) and otherHousesPage.js, homePage.html (lines: 77-81), getToKnowPage.html (lines: 258-261), ourHistoryPage.html (lines: 53-57), and otherHousesPage.html (lines: 83-87).

1. **jQuery UI or Bootstrap**

Bootstrap is used throughout all .html web pages, excluding “footer.html”, to create UI design of my final project. Bootstrap is indicated with an external Bootstrap 4 script tag for my onclick navigation bar and Bootstrap 3 link tag within the head tag.

**Bootstrap used:** (Bootstrap 4 script tags) => navBar.html, navBar3.html, and navBar4.html.

(Bootstrap 3 link tags) => homePage.html, getToKnowPage.html, ourHistoryPage.html, and otherHousesPage.html.

1. **AJAX**

AJAX is used to get a random quote from “ccQuotes.php”. using array(). Data is grabbed from id=“contentBox” and the output is shown in “ourHistoryPage.html” line 35.

Code and Creed Quote API:

Random quote: ccQuotes.php?action=getQuotes

**AJAX used:** ccQuotes.php, data is grabbed from id=“contentBox” in ourHistoryPage.js, and AJAX request result shown in ourHistoryPage.html (line: 35).

1. **Overall Purpose**

The overall purpose of this website is to show users who the Missouri Evans Scholars are, their association with the Western Golf Association Evans Scholar Foundation (WGAESF), and its requirements and criteria to become an Evan Scholar. The website gives incite to the history of the Missouri Evans Scholars, along with its leadership roles, and other houses nationwide.

Screenshots of code and validator can be found in “Final Project Screenshots” folder. Inside, screenshots are filed by name of other folders and specific code documents.