**Final Project CS2830 - Documentation**

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**JAWGRD**

My Project: The Real Estate Management System [http://ec2-3-18-101-250.us-east-2.compute.amazonaws.com/FinalChallenge](http://ec2-3-18-101-250.us-east-2.compute.amazonaws.com/FinalChallenge/)

My web application is a real estate management system. The landing page is called about.php. This page explains why a potential customer should pay for the service. The website has a user portal. With this, a user of the site can access all of their data. The feature “notes” allows users to make a quick note, saved to a DB, and can be accessed later or deleted. The website also has “Properties” and “Tenants” system. This can display the properties and tenants of the user logged on, display information on them, find their roommates, and even allows them to add new properties and tenants to the DB. The index page displays some statics for the logged in user, and allows them to navigate to other parts of the site.

Requirements

1. All my pages that are displayed on the web application fulfil the 5 required tags. Viewing code will show, for example, Index.php has them on lines 44-48,60,61,84, and 85. The only time tables are used, is to show large amounts of information from a database. The overlying structure of the webpage is done using external CSS.
2. The Real Estate Management System has a consistent page layout. The top of the wrappers all contain a title, and a navbar allowing easy site navigation. All of the pages use the same font, and background color as well.
3. In order to change the navbar, you only need to edit the navbar.php file. This will affect all of the pages that have it on the page. All of the styles are done with external css, and with the pages sharing many common CSS Classes, it is very easy to make sitewide style changes.
4. A majority of the website is only accessible to a logged in user, as this is primarily a site using data. Pages index,about, notes, properties, property, tenants, and tenant all require you to be logged on in order to use the functions of the site. However the about.php page has content for public viewing. It advertises the benefits of the system, and provides navigation to the portal login. The user knows they are logged on because all pages have a logout button on top. They are able to log out with it.
5. The User ID: test and the Password: pass allows the user to login.
6. Every single webpage for this site uses PHP, and correct techniques.
7. I use both get and POST. The login system uses POST, line 8,10,12, and 14 on page loginUser.php, and the property.php page and tenant.php page both use get requests on lines 71 and 71 respectively.
8. Aside from logging in, I use forms on pages notes.php to add a note on line 48 via JavaScript, properties.php to add a property on line 55, and tenants.php to add a tenant on line 48. All of these forms are added to a page upon an onclick of a button.
9. All of the users provide information. In the event of a failed login, a messages glows red and purple stating the login failed. The form elements also show an error if the wrong type of data is entered, using html5. For example, a rent price cannot be 199.998, it must be to the nearest cent.
10. Multiple pictures are present in the form of a Carousel, on about.php
11. On about.php, the bottom of the page, is a button titled motivation. Upon clicking the button, the webpages embeds a youtube video about real estate.
12. Javascript is used in many places. For example, pages notes.php, properties.php, and tenants.php all use Javascript to add a form to a webpage on lines 48,55 and 48 respectively. It is also used on about.php to add the video to the page after the button is clicked, on lines 53-60.
13. JQuery is used on index.php to get the stats.php page, and display it in the dataOut class div. Lines 54-58
14. JQueryUI is used with Cards on page notes.php on lines 131-135. BootstrapUI is used with a Carousel on page about.php lines 85-140
15. AJAX is used with Jquery on index.php to get the stats.php page and display it. On lines 54-58., specifically line 55
16. The Real Estate Management System has many features, and serves a purpose aside from simply meeting requirements. It has many applications, to being an service itself, to an internal tool used to manage assets of a real estate company. It is something I would be proud to show a younger version of myself, as well as an employer
17. This file meets the requirement.

References

Any references to code that was not written 100% by me comes in the form of comments in the code itself. The images on about.php come from license free images sources, and some from lecture.

Final Notes

While the site has a lot of functionality, some issues can come from this. One issue comes from using jqueryui css files. This causes the header to be **SLIGHTLY** off on about.php and note.php. I have spent hours and hours attempting to perfect it. It is extremely close to having an identical header among all pages. Also, input cannot have ‘ or “ when creating a note, or my code will spit out an error. I did not have time to encode all the input. I don’t believe these small bugs resulting from going above and beyond with my project have any effect on user experience. They are hard to notice.

This site has tons of functionality, and a ton of potential to be expanded into a very useful tool.