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CS 2830 Final Project Report

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<http://macchiato.centralus.cloudapp.azure.com/resume/>

1. I created an online resume with some other attributes mixed in. All of the markup is written with HTML and CSS. I utilized a template (credited on the page) made by ThemeForest. I used this template for the basic layout of the index page, but I changed all of the content, some of the style, and created custom pages for the login and error pages.
2. I use the navigation bar and the same colors/theme on most of the pages involved. It is fairly simple to navigate around the various pages.
3. This application uses the common element of the navigation/information section on the left-hand side. The three lines icon towards the top left opens up links to the other pages. This is added to the index and pictures pages via a PHP include statement.
4. The Pictures page is only accessible if the user is logged in. I added the extra functionality by creating a MySQL database to store the user accounts and hashed passwords. I used PHP MySQLi functions to query the database for user accounts. Users can be created and deleted.
5. You can log in with the user credentials “test” and “pass” on the login page. Other users can also be created.
6. Almost every page uses PHP. The index has a small PHP brick at the top displaying a message saying that the user logged in successfully. PHP is also used for the login/logout functionality using cookies and sessions. I utilize the PHP function “include” to create a template of sorts for the sidebar and navigation.
7. GET data is used on the pictures.php on line 59 during the AJAX request. POST data is used in login.php to pass the username and password.
8. I use the form on the login page for the secondary function of creating new users and adding their data to the database.
9. On the login page, a small error message is displayed if the user enters an invalid username or password.
10. Pictures.php displays multiple photos of cats.
11. The 404 and 500 error pages both have embedded Youtube videos. The videos chosen were very intentional.
12. The webpage uses Javascript for most of the fancy transitions and animations. Many of these were used in the original template, but I did alter the original Javascript files to make the animations easier to load. I also used Javascript to make the AJAX request on the pictures page.
13. The Material Design Template requires jQuery to run. See line 35 of index.php for import. I also utilized jQuery, specifically jQuery UI to create the photo “puff” effect on pictures.php. See lines 63-65 of pictures.php for the function.
14. The template utilizes elements of Bootstrap such as selectors and page formatting. See line 79 of index.php for a selector example. Line 106 of login.php also uses a Bootstrap button class. I also used jQuery UI on pictures.php to create a puff effect when the page is clicked. I would have set it up for each picture, but it was causing the page to lag on my machine, so I just set it up for the first picture to prove the concept.
15. An AJAX request is made in pictures.php from lines 52-61. It gets plain text from a .txt file and displays the cat quote inside a div when a button at the bottom of the page is clicked.
16. I have added quite a few extra features and functionality beyond just a basic webpage such as the use of a MySQL database and use of the FontAwesome library for favicons and interface elements. This webpage is also highly mobile friendly. I created custom 404 and 500 error pages for the entire virtual machine by altering the .conf file in etc/apache2/sites-enabled. The .conf file is in the project folder. I provided links in the navigation for convenience. I have learned a lot in making the website, especially about the different frameworks and libraries I have utilized. It is far from perfect, and I will continue to improve the resume part of the page to show to potential employers as well as continuing to host it on another server.