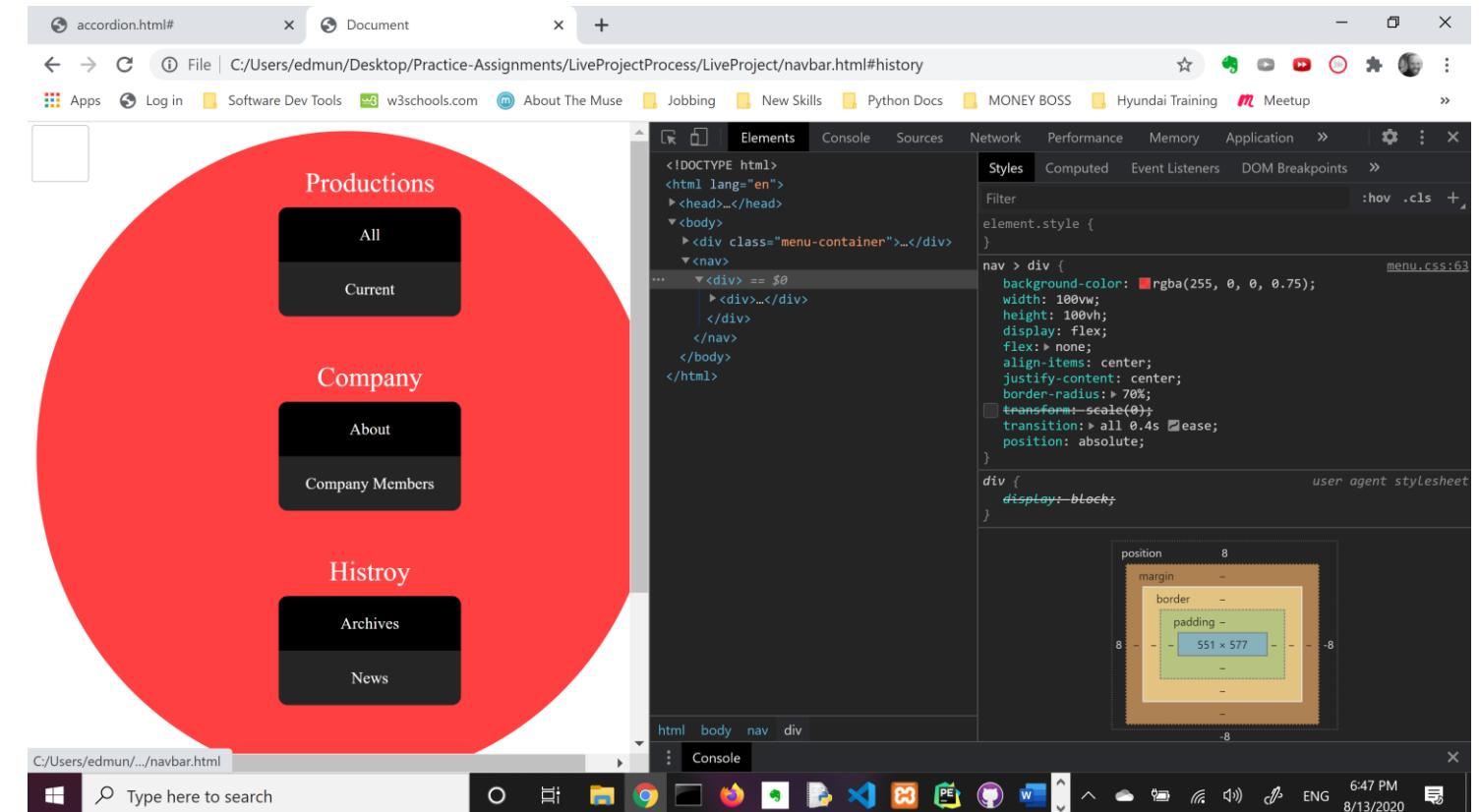


Designing in a code-first MVC Environment

A Beautician Amongst Surgeons

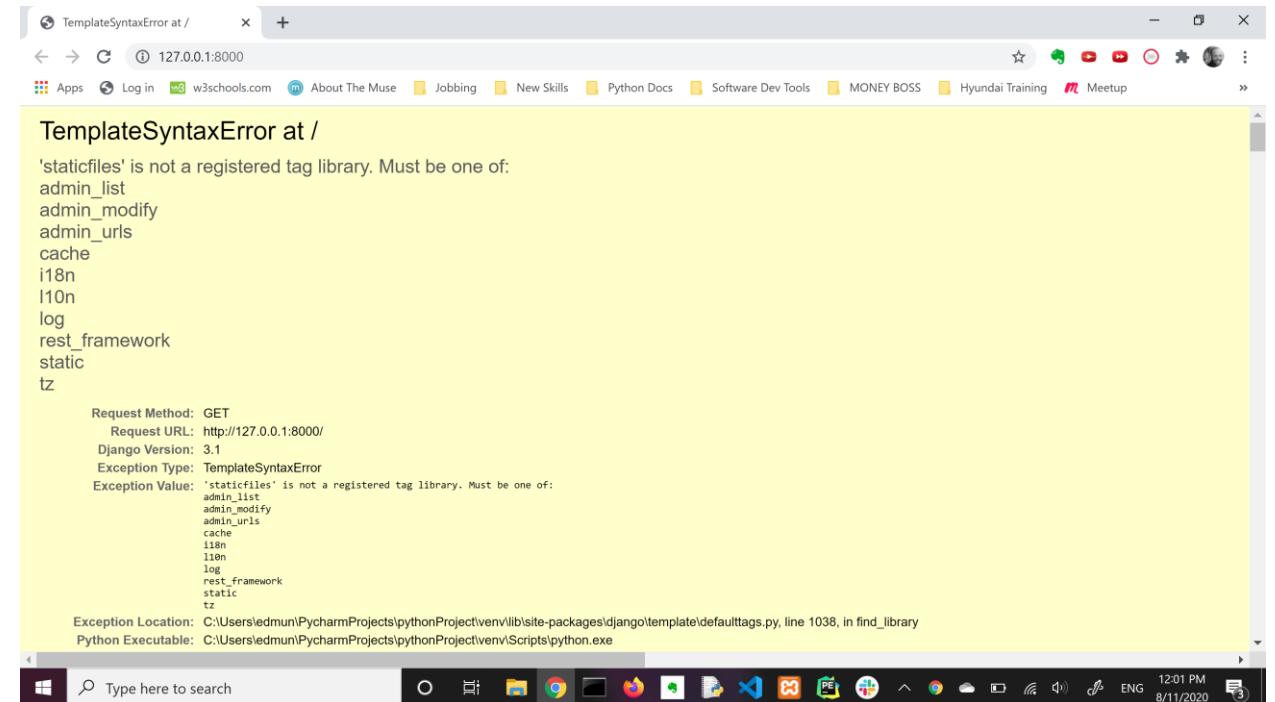
Edmund Alyn Jones



*Styling and UI in ASP.NET is like
trying to paint a mural where you
have to go on a scavenger hunt to
find all the walls.*

- ME

Welcome to your first day on a framework.
Here's an error you don't understand yet to get you started!



A screenshot of a web browser window titled "TemplateSyntaxError at /". The URL in the address bar is "127.0.0.1:8000". The browser has a toolbar with various icons and a menu bar. Below the toolbar, there is a horizontal bar with links like "Log in", "About The Muse", "Jobbing", "New Skills", "Python Docs", "Software Dev Tools", "MONEY BOSS", "Hyundai Training", and "Meetup". The main content area of the browser shows the following error message:

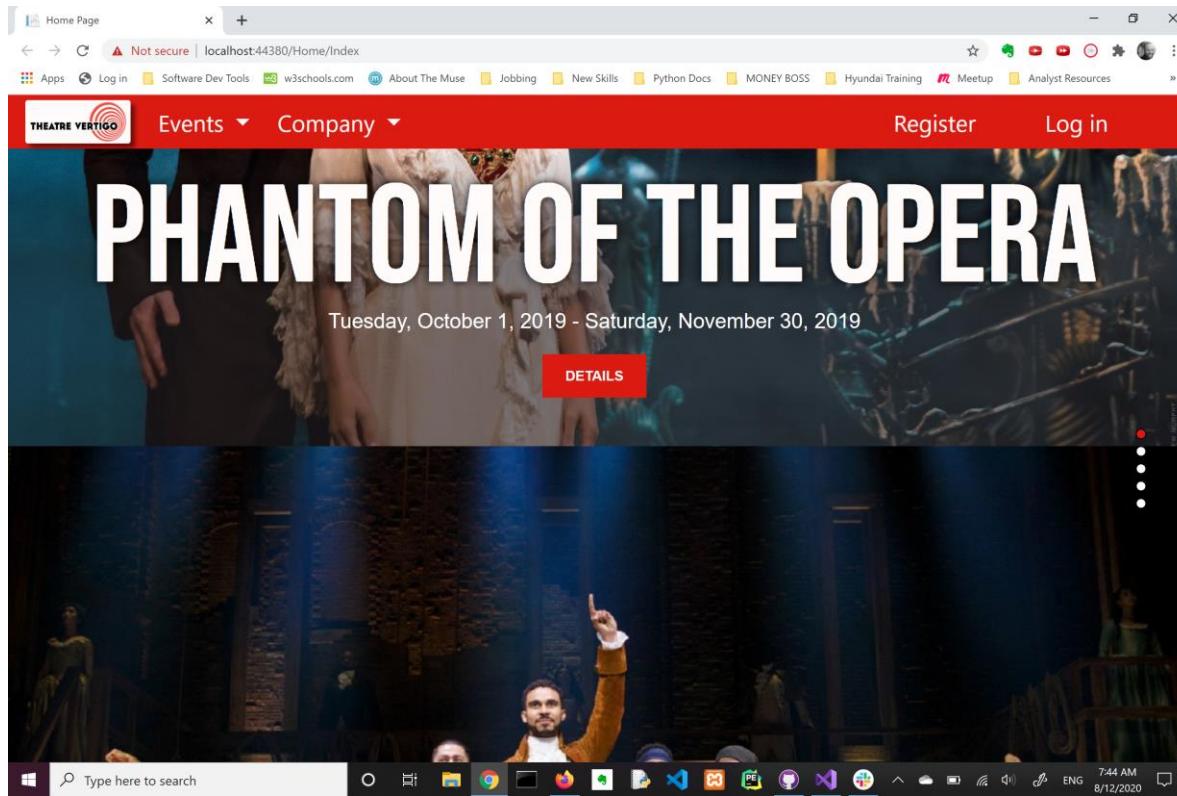
```
TemplateSyntaxError at /
'staticfiles' is not a registered tag library. Must be one of:
admin_list
admin_modify
admin_urls
cache
i18n
l10n
log
rest_framework
static
tz

Request Method: GET
Request URL: http://127.0.0.1:8000/
Django Version: 3.1
Exception Type: TemplateSyntaxError
Exception Value: 'staticfiles' is not a registered tag library. Must be one of:
admin_list
admin_modify
admin_urls
cache
i18n
l10n
log
rest_framework
static
tz

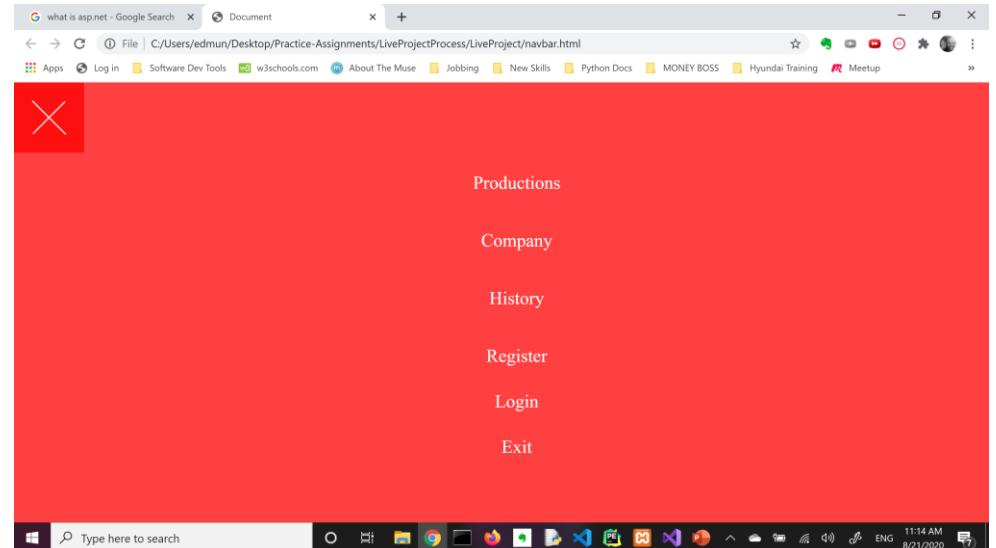
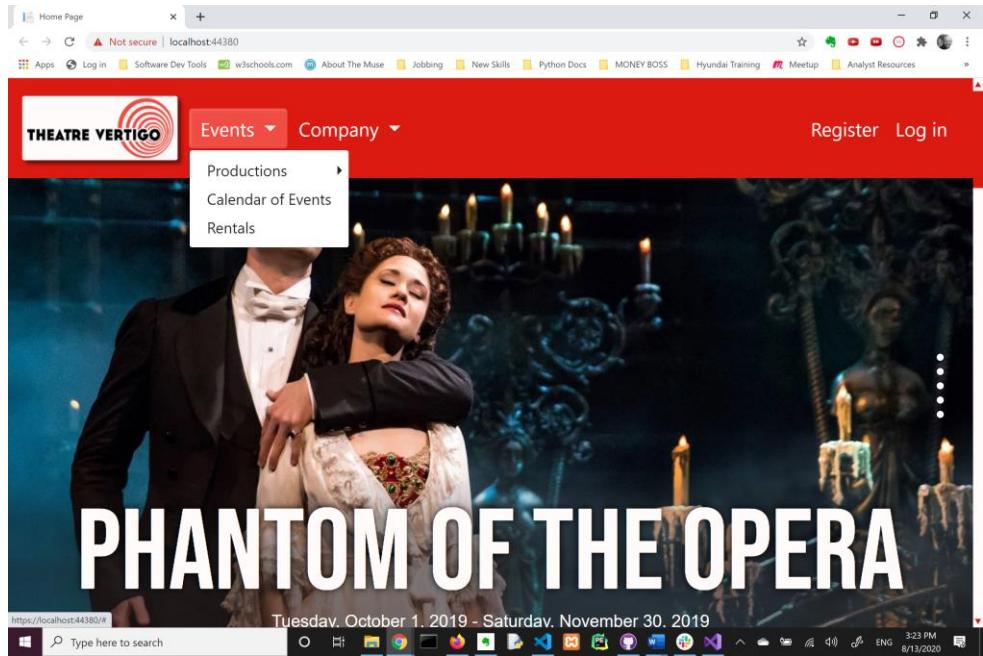
Exception Location: C:\Users\edmun\PycharmProjects\pythonProject\venv\lib\site-packages\django\template\defaulttags.py, line 1038, in find_library
Python Executable: C:\Users\edmun\PycharmProjects\pythonProject\venv\Scripts\python.exe
```

The browser is running on a Windows operating system, as indicated by the taskbar at the bottom which includes icons for File Explorer, Google Chrome, and other system utilities.

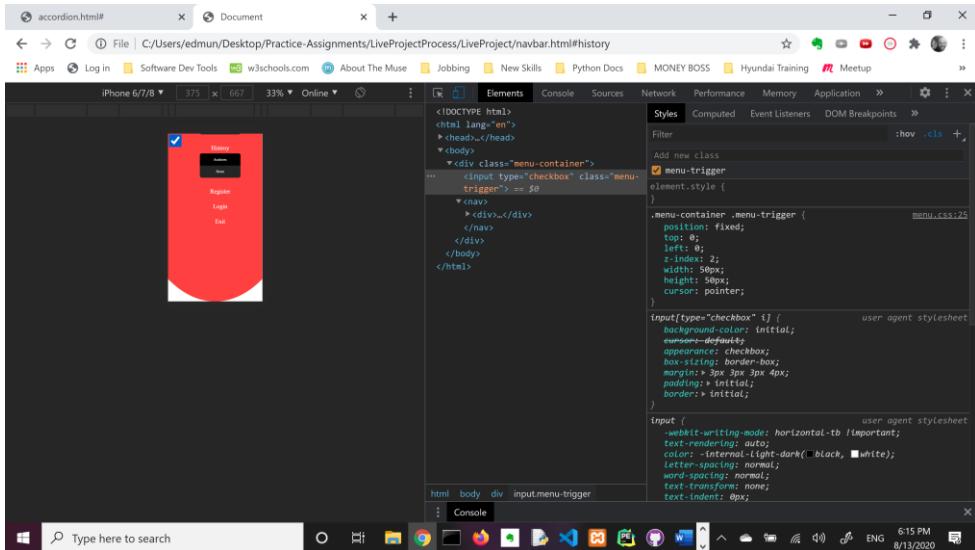
Little Victories



The Navbar and I



#mobile-first



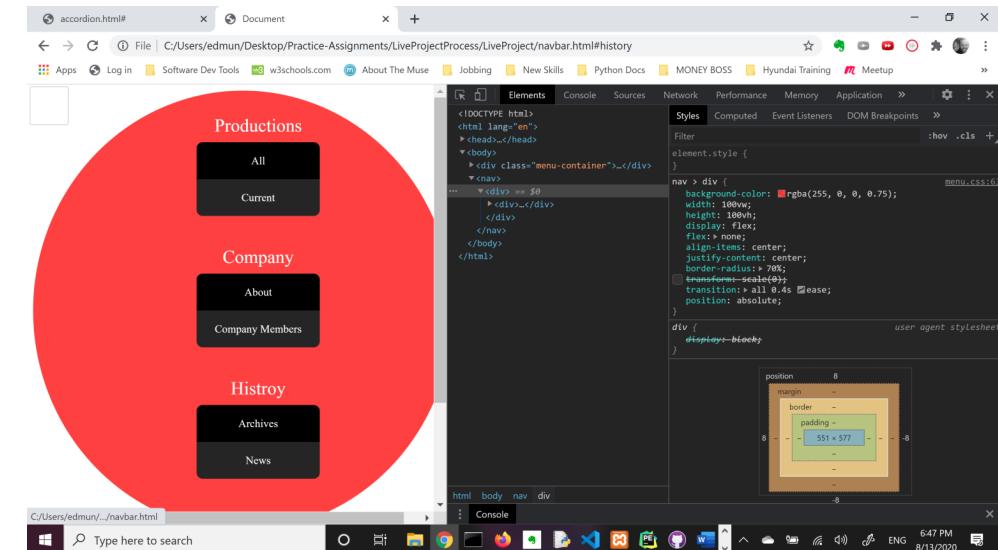
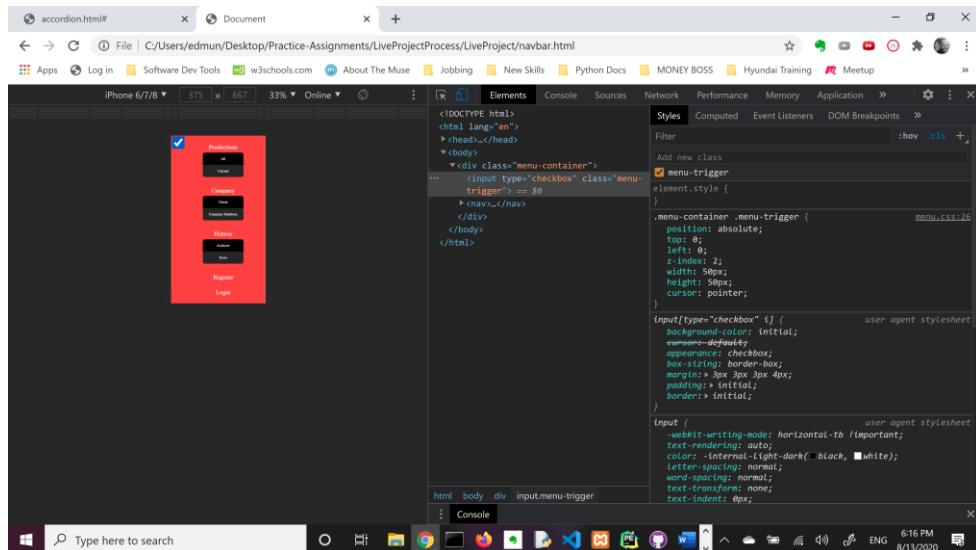
I was taught by the YouTubes to build mobile first.

So I started this project by always prototyping an idea before trying to add to the CMS project.

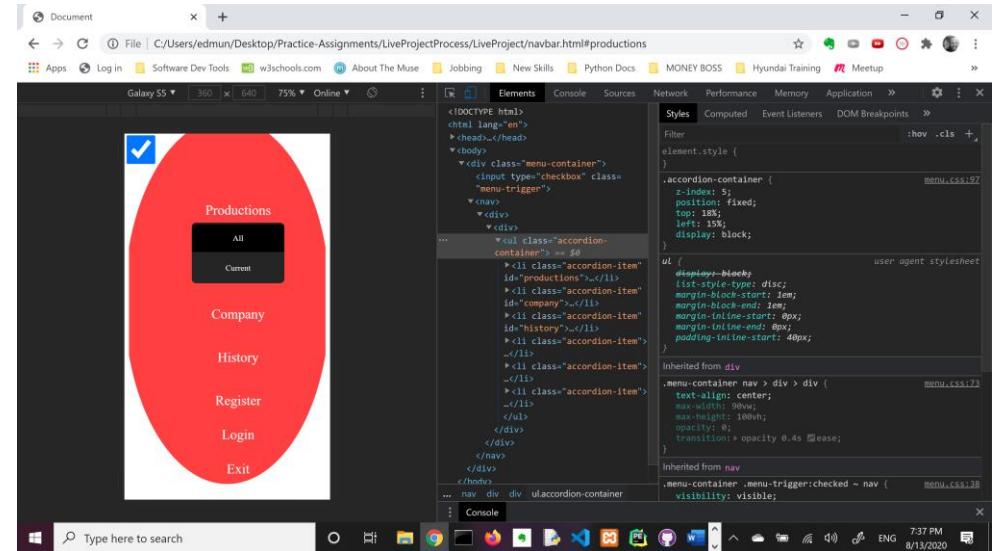
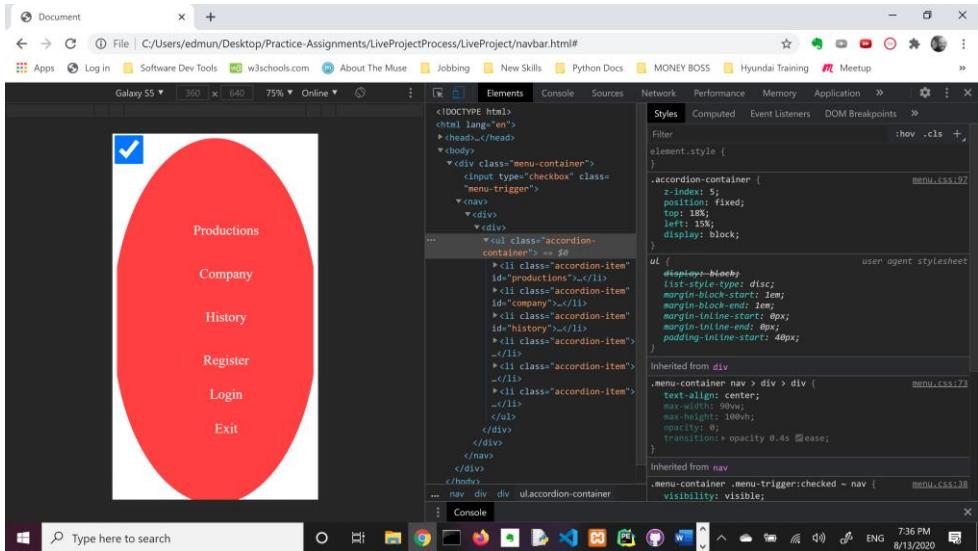
Here you can see I am already having issues with positioning and covering the screen properly with the overlay.

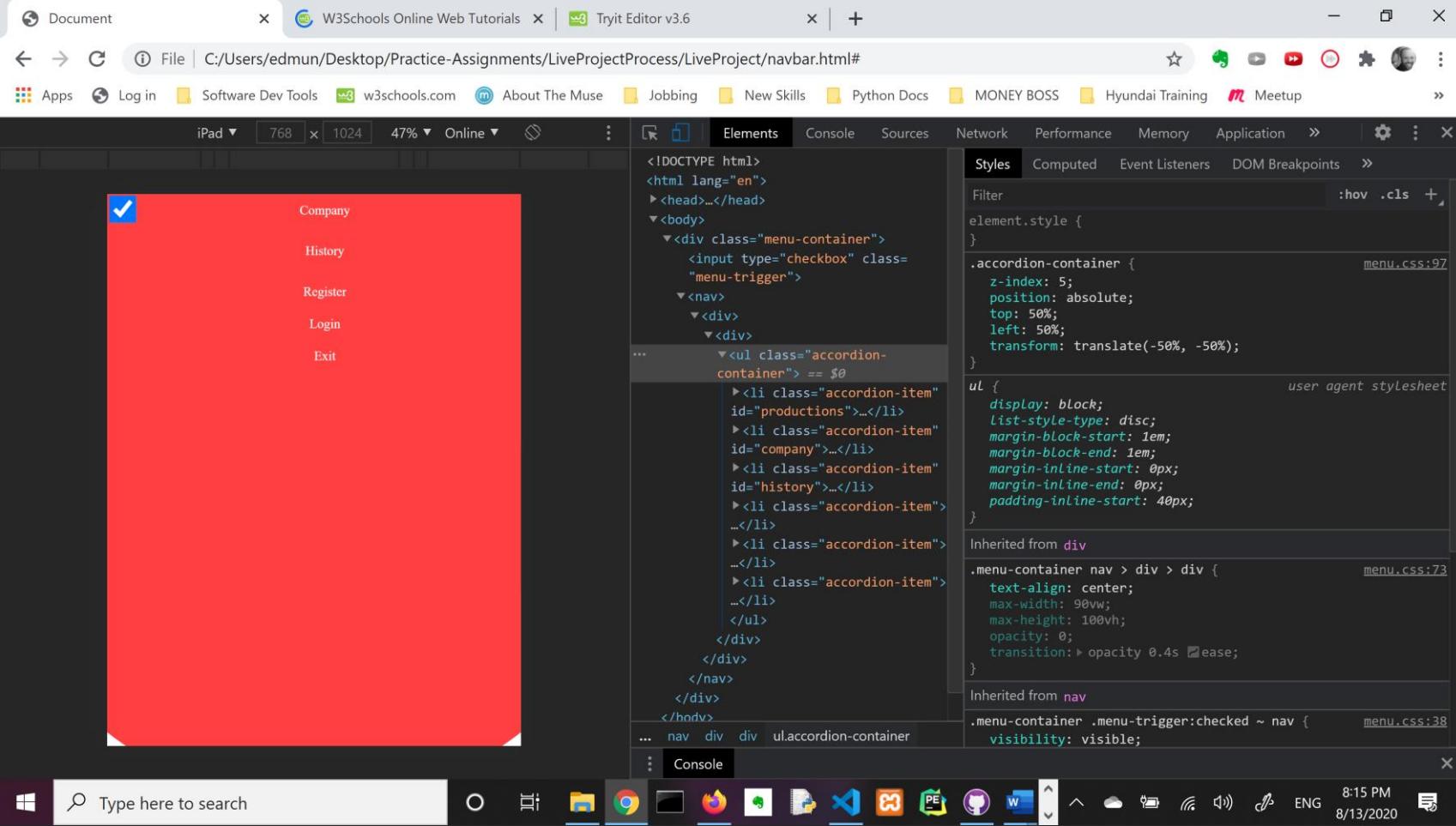
This theme will be ongoing!

It worked so good on mobile. What happened?



First the menu. Then the drop-down items.





One step forward...

We finally covered the screen but now I can't read the text.

Yay!

```
18 }  
19 </p>  
20  
21 <div class="card-columns mr-3 ml-3 p-3" id="castContainer">  
22     /*Creates a card for each cast member with their photo as the image-cap*/  
23     @foreach (var item in Model)  
24     {  
25         <div class="card castImageContainer">  
26             /* This code determines if Cast Member has no photo. If so, use default */  
27             @if  
28             {  
29                 string img = "";  
30                 if (item.PhotoId != 0)  
31                 {  
32                     img = Url.Action("DisplayPhoto", "Photo", new { id = item.P  
33                 }  
34             }  
35             else  
36             {  
37                 img = Url.Content("~/Content/Images/CastMember.jpg");  
38             }  
39  
40             <a href="@Url.Action("Details", "CastMembers", new { id = item.Cast  
41  
42             /*<div class="castMiddle mr-3 mb-1 pb-0">*@
```

100 % ✓ No issues found Call Stack Call St... Break... Except... Comm... Imme... Output

Ln: 34 Ch: 21 SPC CRLF

Tools Solution Explorer Team Explorer

```
7 <title>Cast Member Card Prototype</title>  
8 </head>  
9 <body>  
10     <main>  
11         <section>  
12             <div class="cast-card">  
13                   
14                   
15                 <h3 class="cast-name">Actor Name</h3>  
16                 <article>  
17                     <p>Bio: Lorem ipsum dolor sit amet consectetur,  
18                         Nostrum placeat laudantium ex? Praesentium conse  
19                         Veniam iusto dignissimos quos. Illum magnam volu  
20                 </article>  
21                 <p>Subtext</p>  
22             </div>  
23             <div class="cast-card">  
24                   
25                   
26                 <h3 class="cast-name">Actor Name</h3>  
27                 <article>  
28                     <p>Bio: Lorem ipsum dolor sit amet consectetur,  
29                         Nostrum placeat laudantium ex? Praesentium conse  
30                         Veniam iusto dignissimos quos. Illum magnam volu  
31                 </article>
```

Square Peg, Round Hole

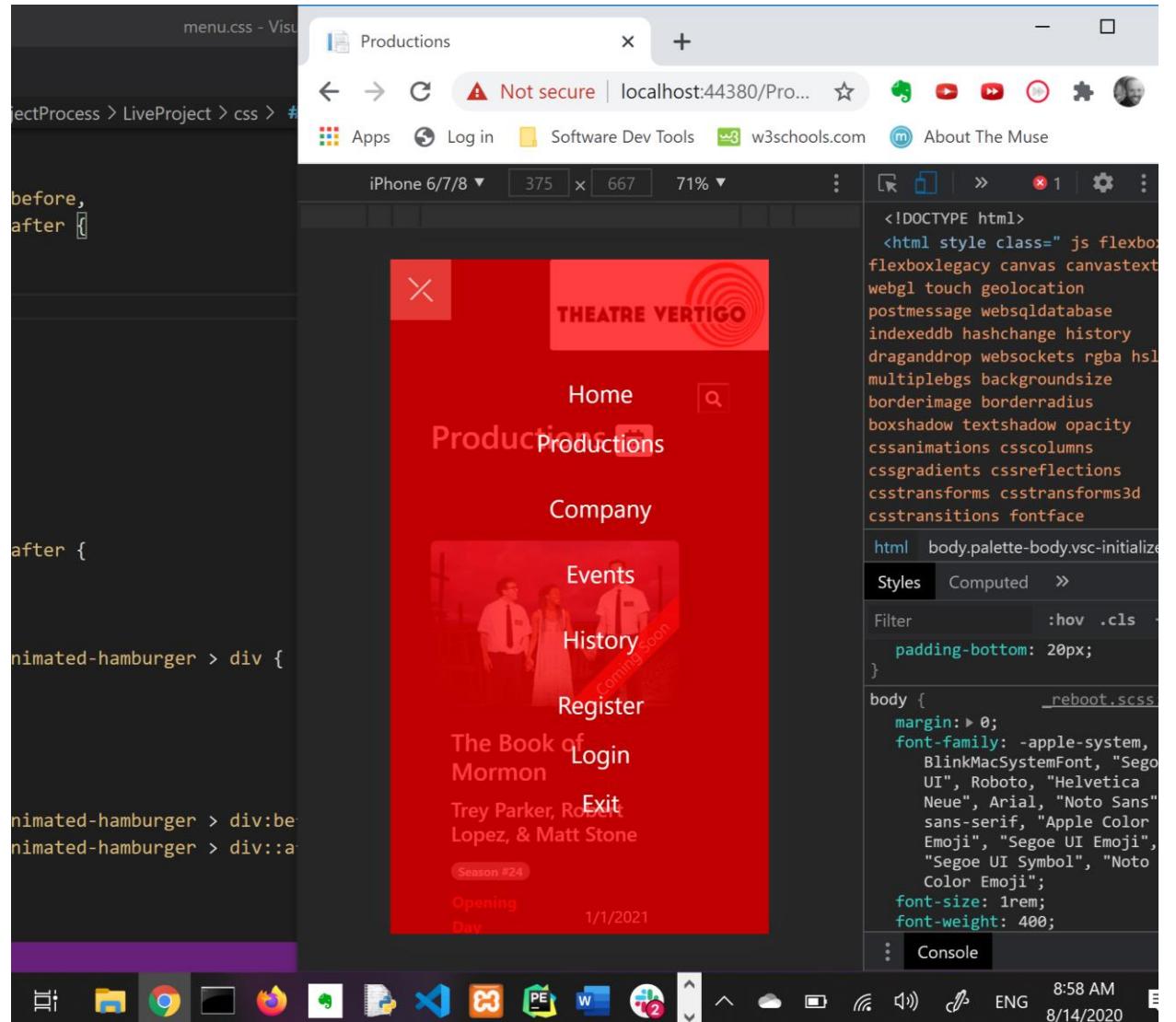
How do I get my prototypes to fit into the project without breaking everything?

Make it Work!

After working to get my prototype up and running, it was now time to add it to the actual project.

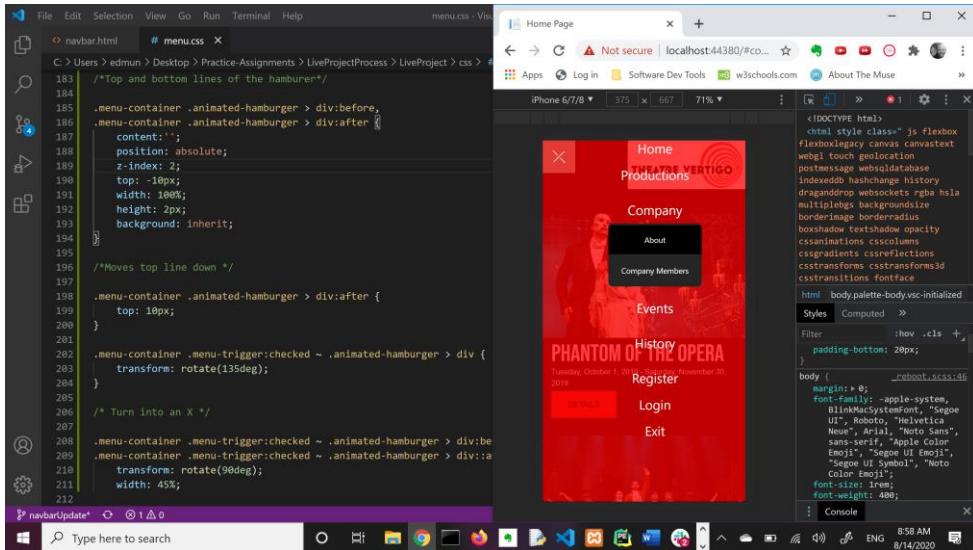
The prototyping has helped as you can see I can cover the screen nicely now.

This, however, doesn't have the accordion-style drop down menu yet.

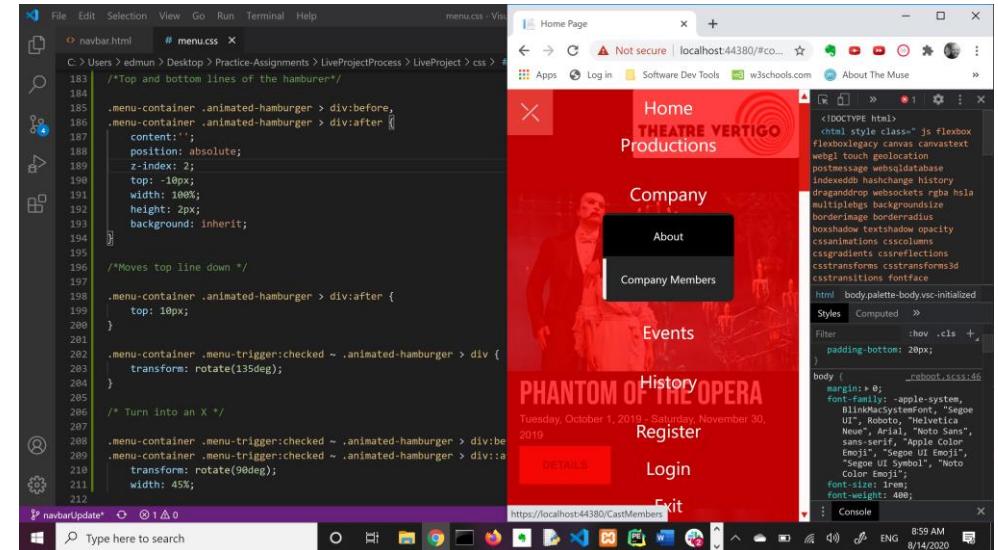


The drop down is born

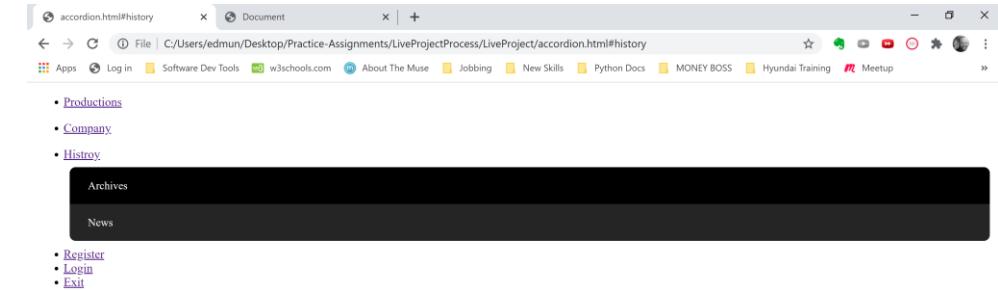
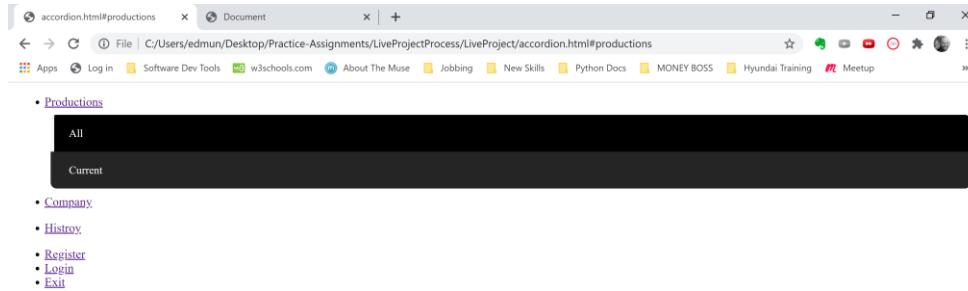
DROP DOWN TAKING SHAPE



ADD SOME STYLING ON HOVER



Prototyping without Style



Looking Good on Mobile

The image shows a developer's environment with two main windows. On the left is a code editor (VS Code) displaying CSS for a hamburger menu. The right side shows a mobile browser window (Safari on macOS) displaying a website for 'THEATRE VERTIGO'.

Code Editor (VS Code):

```
File Edit Selection View Go Run Terminal Help
menu.css - Visual Studio Code
C:\> Users > edmun > Desktop > Practice-Assessments > LiveProjectProcess > LiveProject > css > menu.css
183 /*Top and bottom lines of the hamburger*/
184 .menu-container .animated-hamburger > div:before,
185 .menu-container .animated-hamburger > div:after {
186   content:'';
187   position: absolute;
188   z-index: 2;
189   top: -10px;
190   width: 100%;
191   height: 2px;
192   background: inherit;
193 }
194
195 /*Moves top line down */
196 .menu-container .animated-hamburger > div:after {
197   top: 10px;
198 }
199
200 .menu-container .menu-trigger:checked ~ .animated-hamburger > div {
201   transform: rotate(135deg);
202 }
203
204 /* Turn into an X */
205 .menu-container .menu-trigger:checked ~ .animated-hamburger > div:be
206 .menu-container .menu-trigger:checked ~ .animated-hamburger > div:be
207   transform: rotate(90deg);
208   width: 45%;
```

Mobile Browser Preview:

The mobile browser displays the 'Productions' section of the Theatre Vertigo website. It shows a banner for 'The Book of Mormon' by Trey Parker, Robert Lopez, & Matt Stone, with a 'Coming Soon' tag. Below the banner, it says 'Season #24', 'Opening Day', and '1/1/2021'. The browser interface includes a status bar at the bottom showing the date (8/14/2020), time (8:58 AM), and battery level.

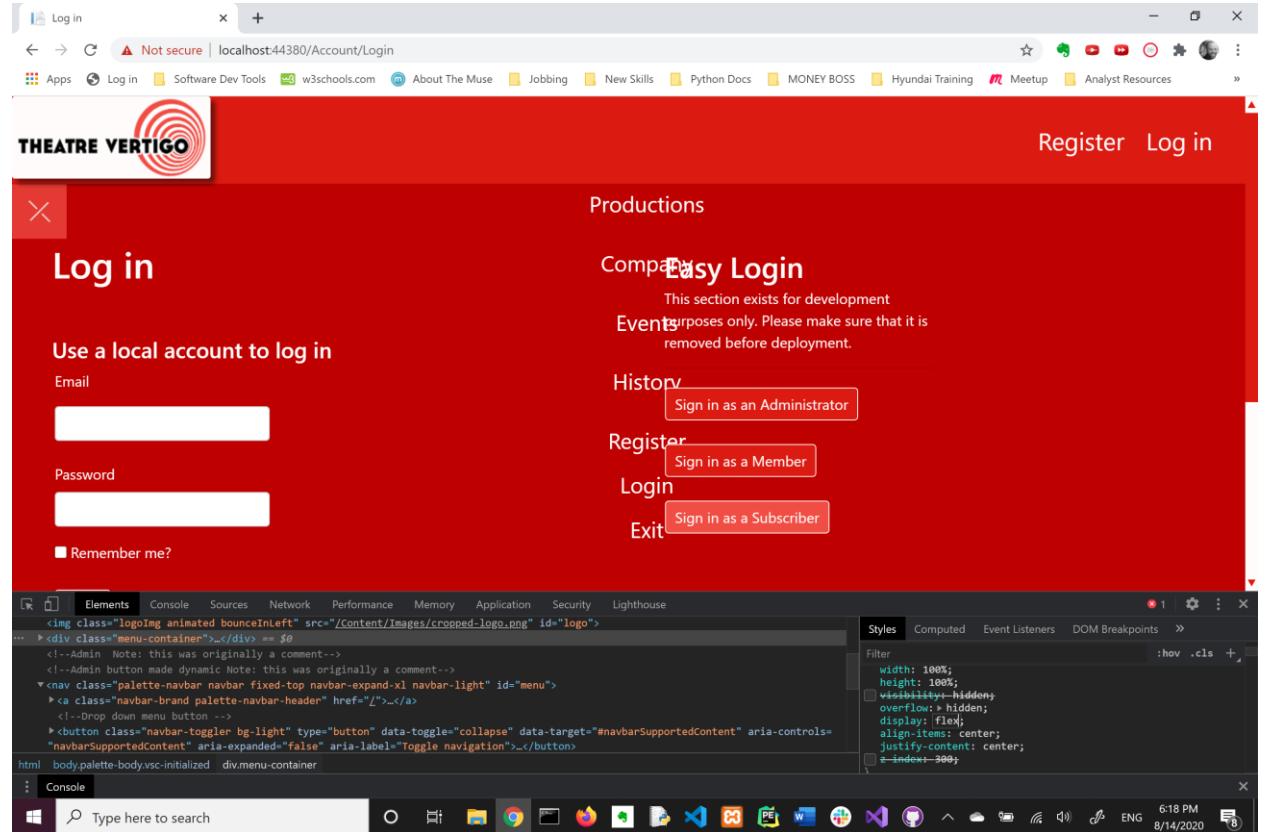
Yeah, it's cute and all
but can the client run
admin functionality!

OH, YOU STILL WANTED TO BE ABLE TO DO THAT?

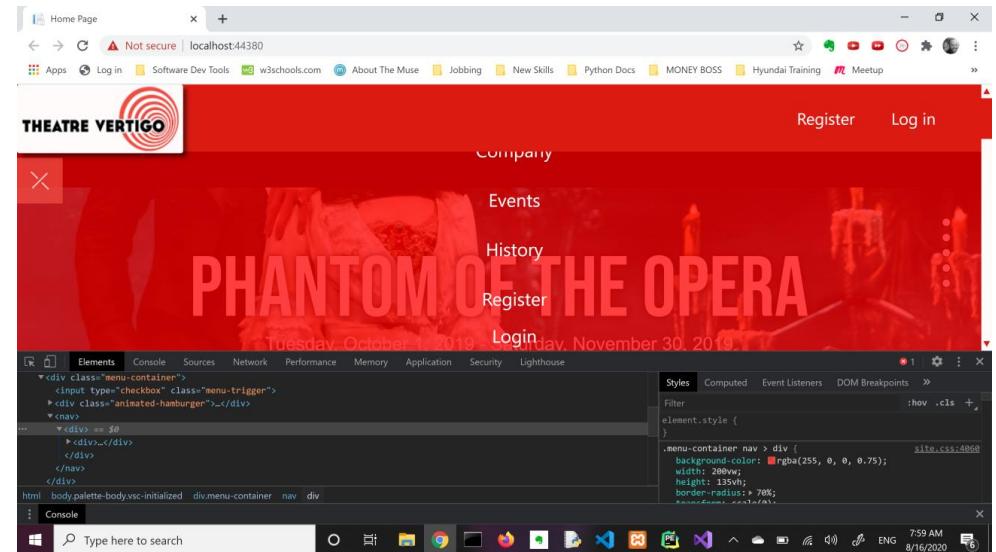
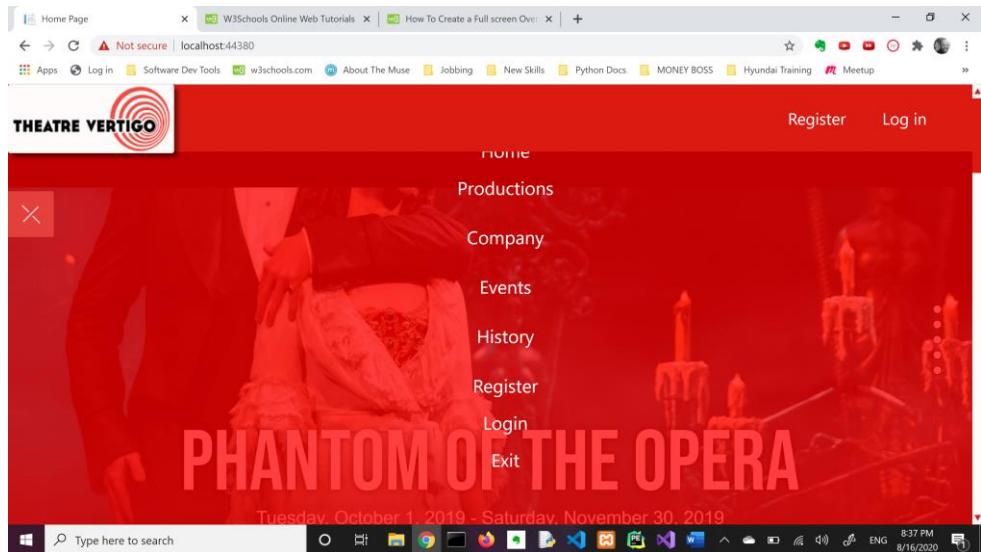
Nope

Your login is blocking my amazing overlay navigation display!

Now, we descend into position/z-index hell for several hours!

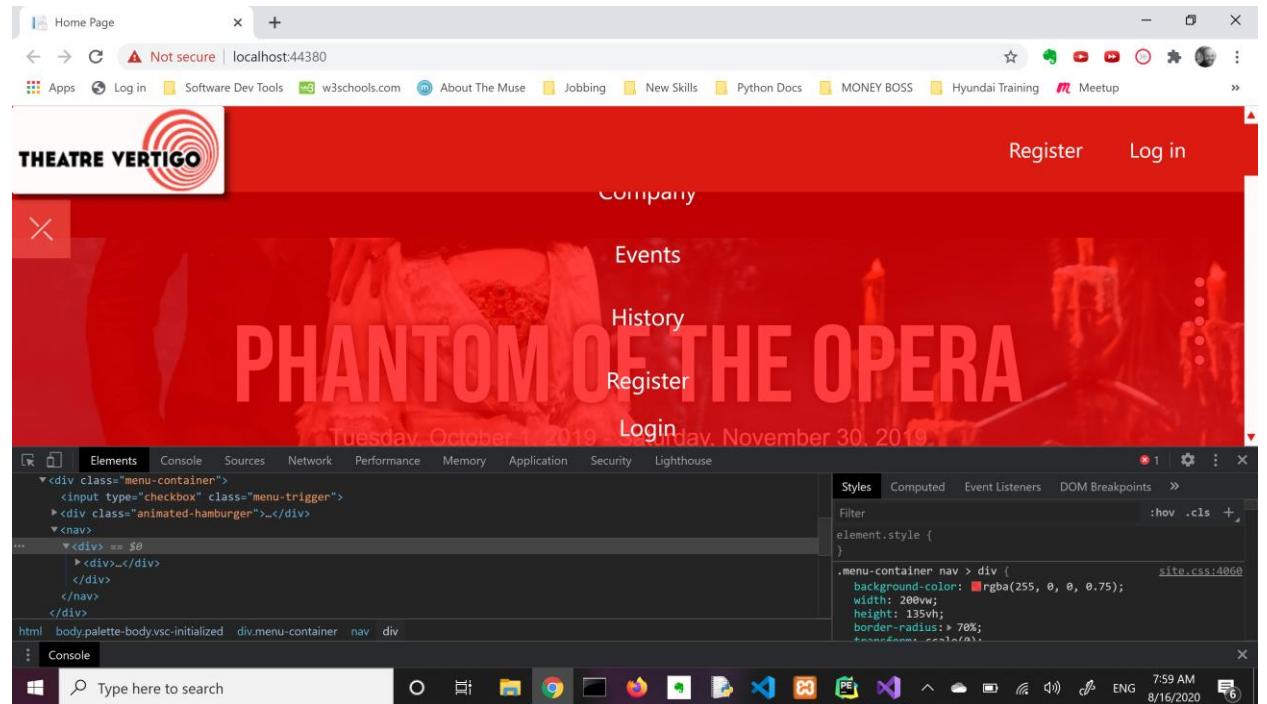


Registration and Login meet Overlay

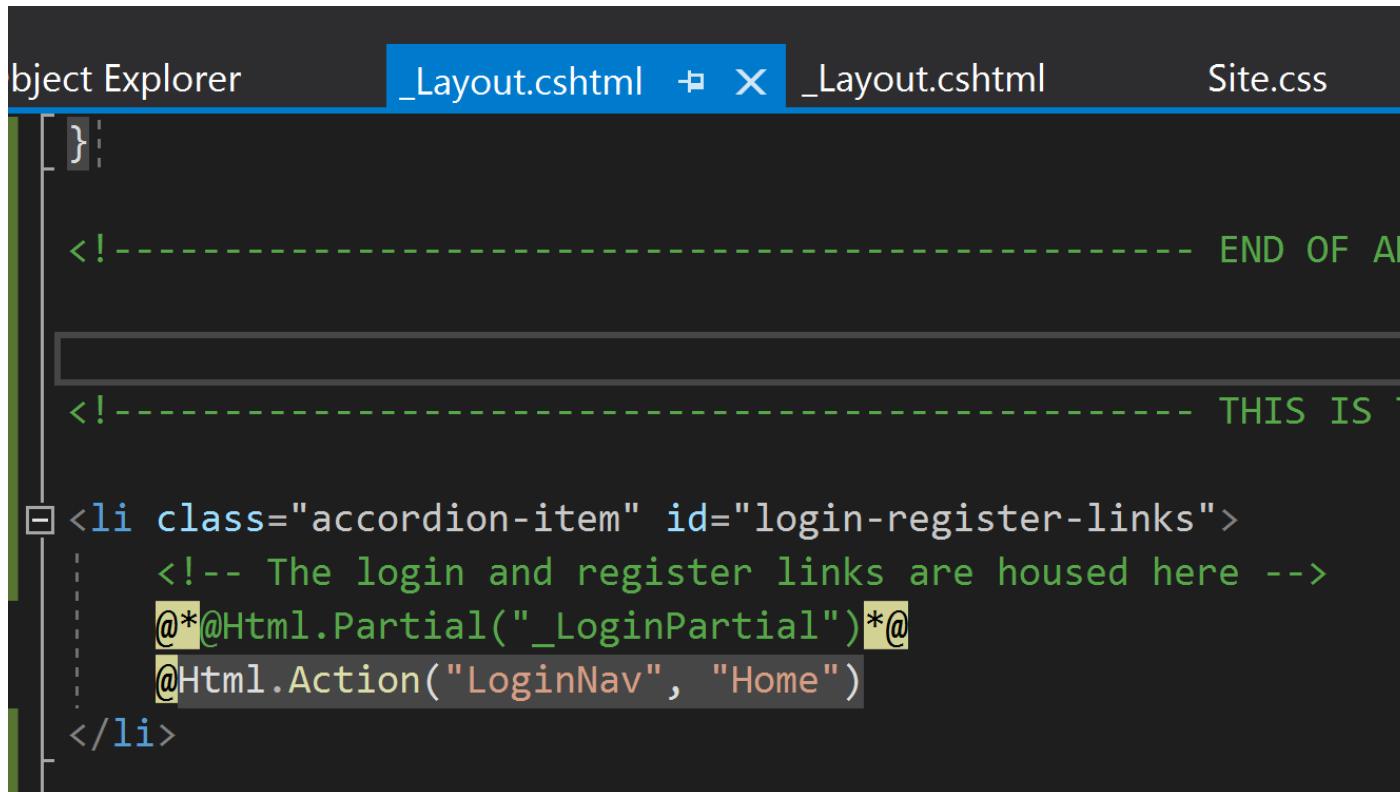


I had not figured out how to re-introduce the Register and Log in buttons from the original navbar.

That's because I could not find the HTML that housed these little buggers. So I tried to shoe-horn it into my overlay design with much failure.



They were right here all along.
Scavenger hunt complete.



The screenshot shows a code editor window with the tab bar at the top containing "Object Explorer", "_Layout.cshtml", and "Site.css". The main area displays the following code:

```
object Explorer      _Layout.cshtml  ✎ X  _Layout.cshtml      Site.css

    }

    <!-- ----- END OF ADDED CODE -->

    <!-- ----- THIS IS THE NEW CODE -->

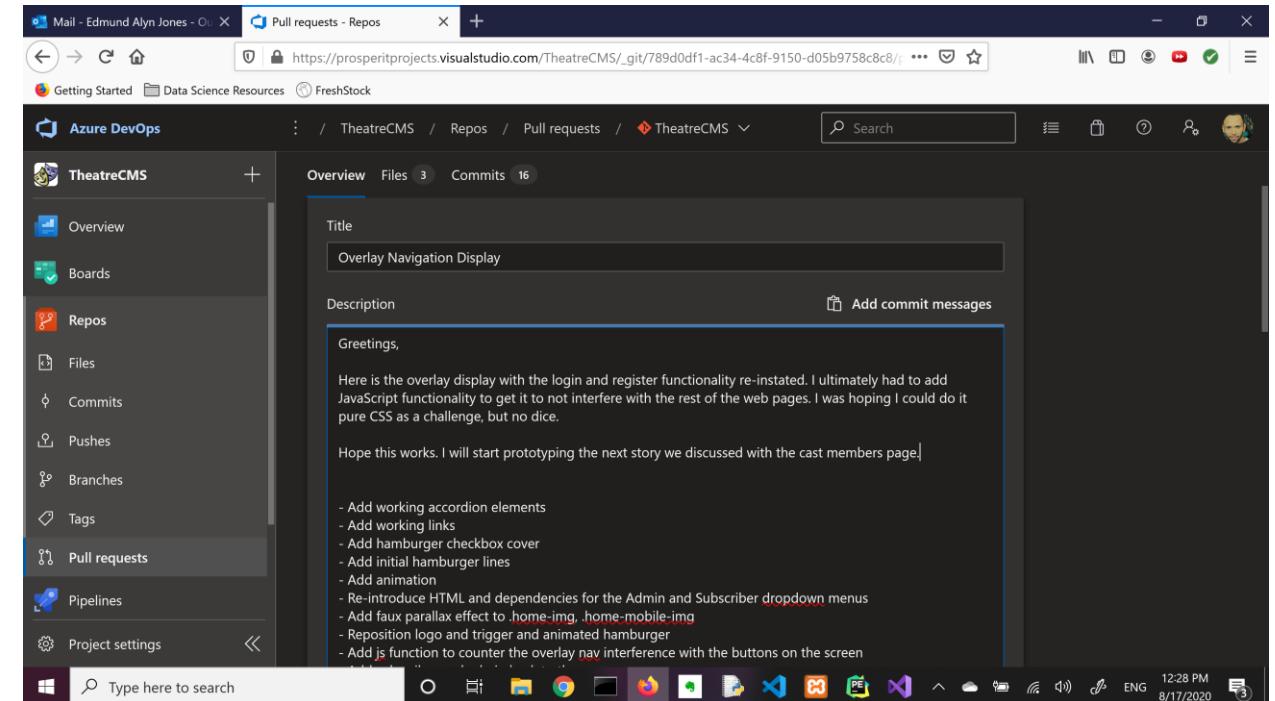
    <li class="accordion-item" id="login-register-links">
        <!-- The login and register links are housed here -->
        @*@Html.Partial("_LoginPartial")*@
        @Html.Action("LoginNav", "Home")
    </li>
```

Time to show the boss the finished product!

I thought I could turn in the overlay display with the re-introduced Log in and Register buttons from the original navbar.

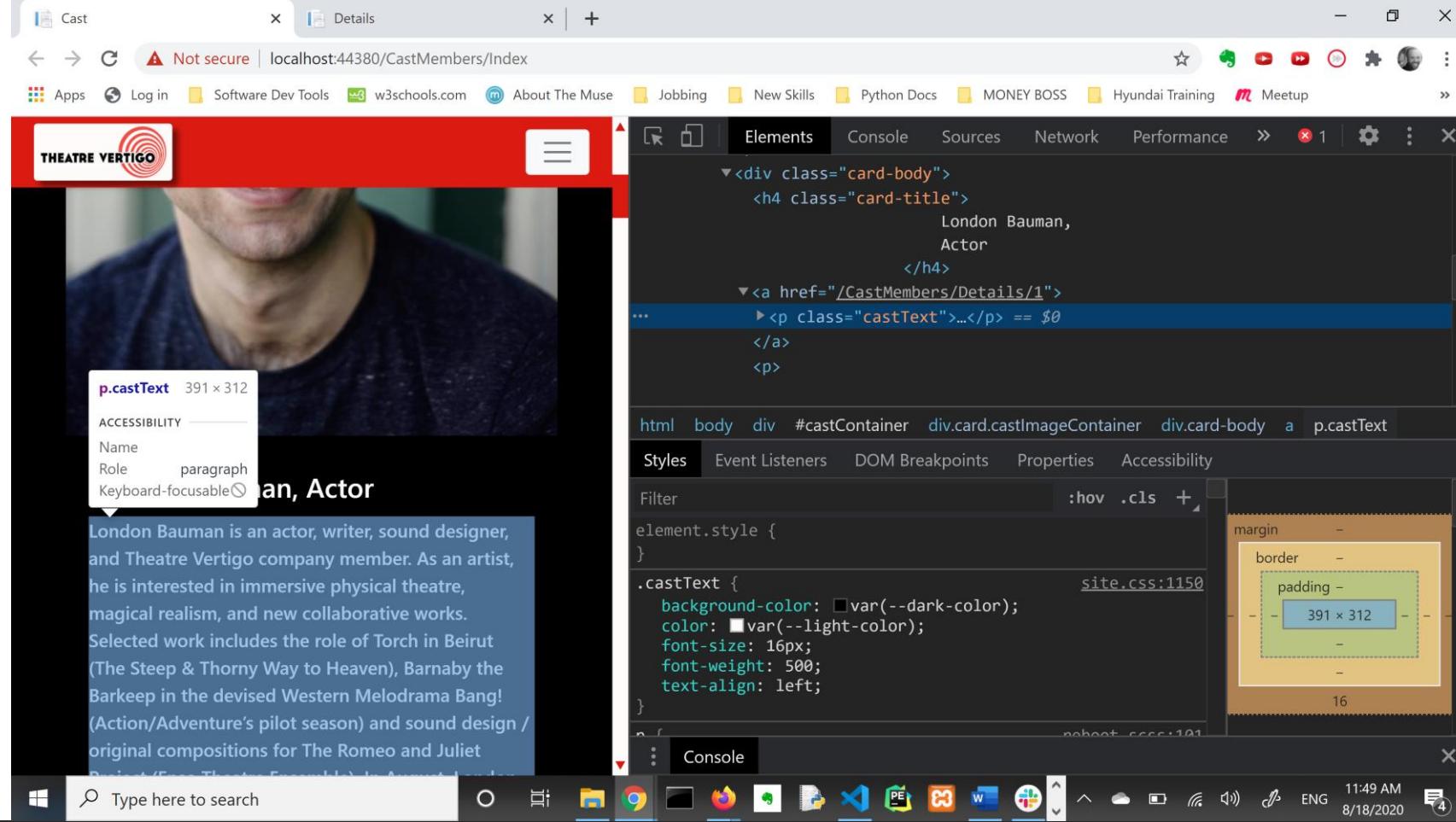
It was working.

So, I decided to tackle a second story.



We're not done with
the navbar though.

-ALAN YU



Giving all the actors a face-lift...

...that is the web page—with CSS.

The Original Look

≡

Create New

Cast



THEATRE VERTIGO

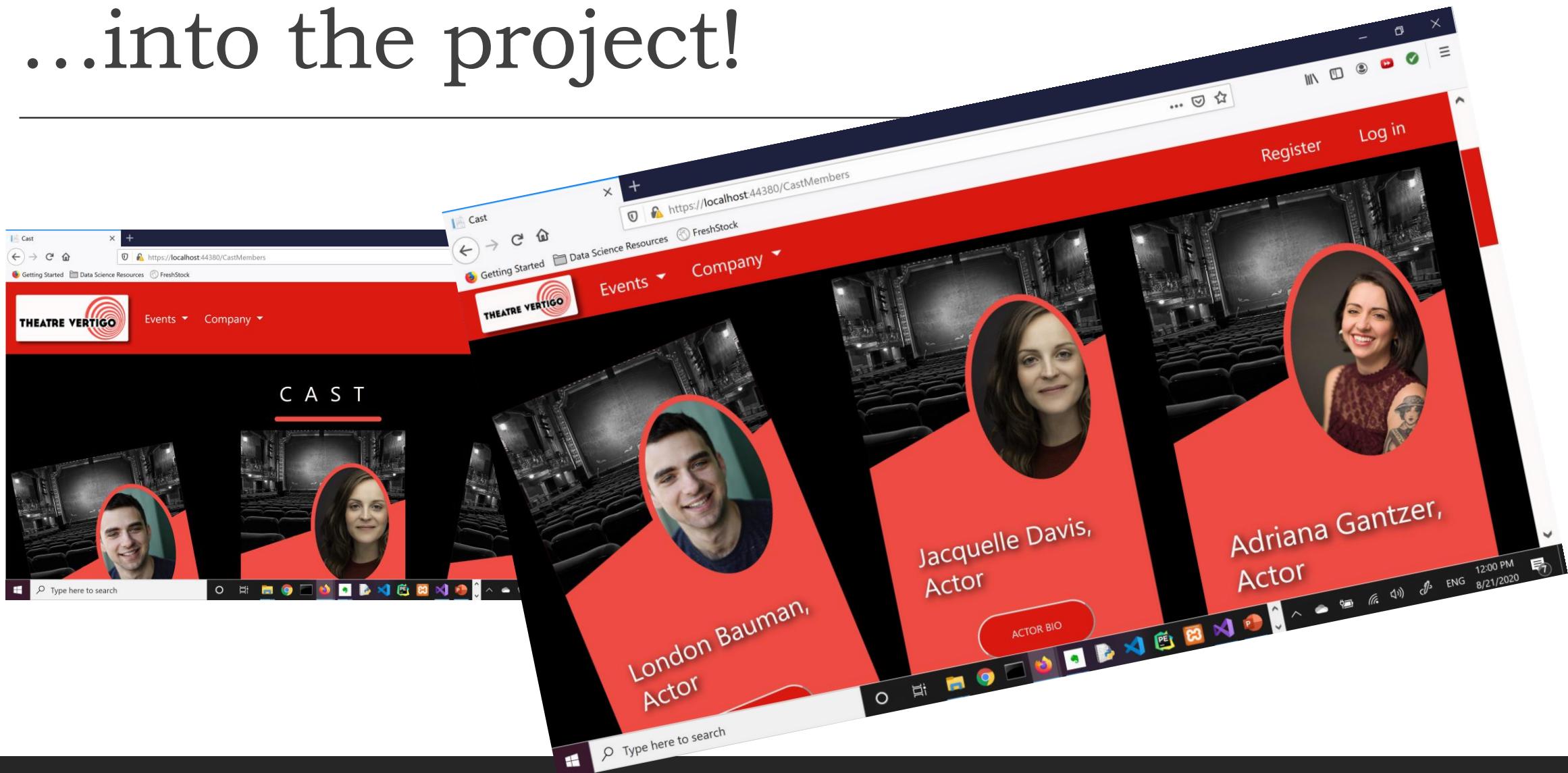


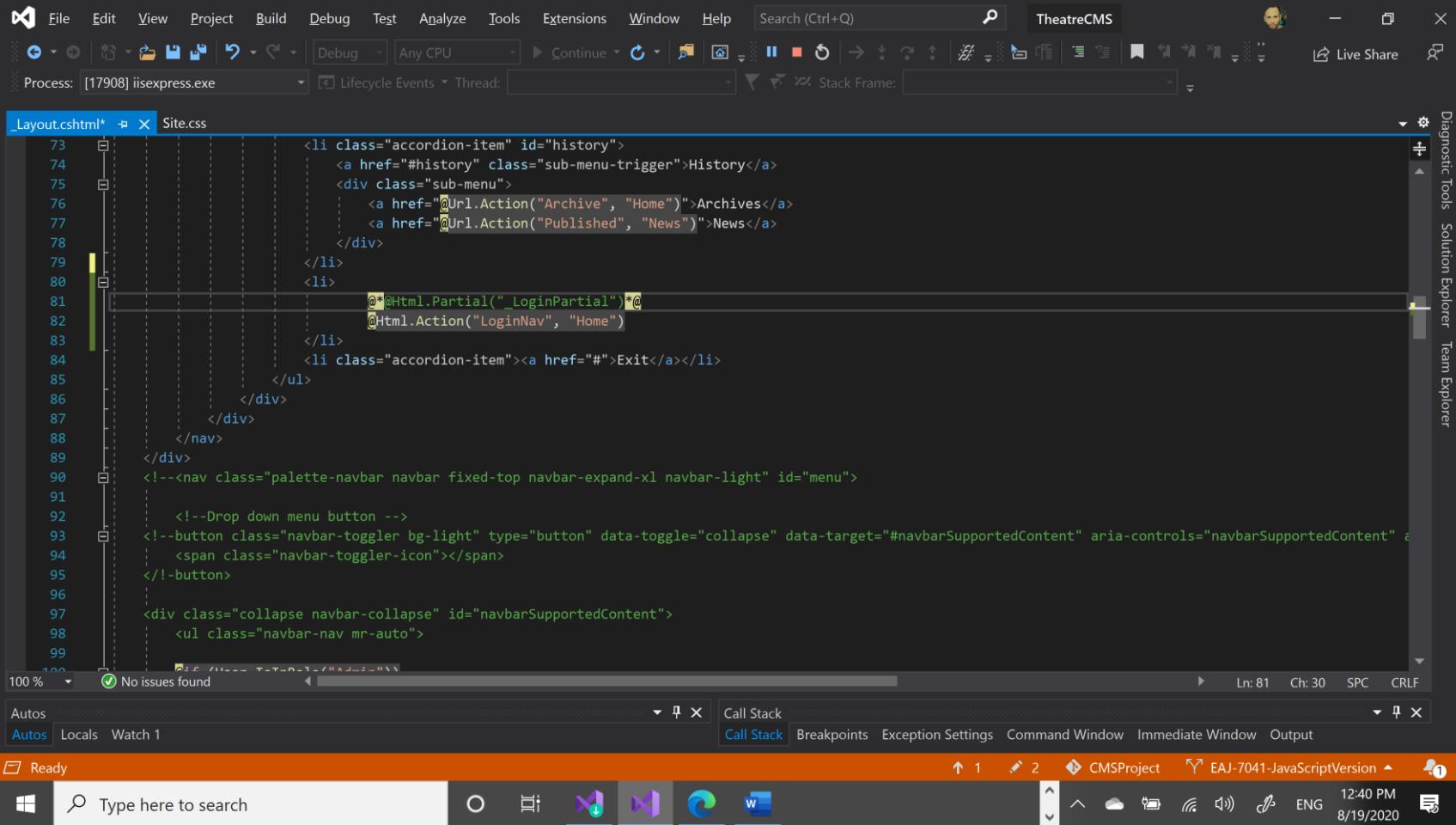
Clara-Luis Hillier, Actor

More prototyping!



...into the project!





The screenshot shows the Microsoft Visual Studio IDE interface. The main window displays the `_Layout.cshtml` file, which contains the following code:

```
73     <li class="accordion-item" id="history">
74         <a href="#history" class="sub-menu-trigger">History</a>
75         <div class="sub-menu">
76             <a href="@Url.Action("Archive", "Home")">Archives</a>
77             <a href="@Url.Action("Published", "News")">News</a>
78         </div>
79     </li>
80     <li>
81         @*@Html.Partial("_LoginPartial")*@
82         @Html.Action("LoginNav", "Home")
83     </li>
84     <li class="accordion-item"><a href="#">Exit</a></li>
85 </ul>
86 </div>
87 </div>
88 </nav>
89 </div>
90 <!--<nav class="palette-navbar navbar fixed-top navbar-expand-xl navbar-light" id="menu">
91
92     <!--Drop down menu button -->
93     <button class="navbar-toggler bg-light" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
94         <span class="navbar-toggler-icon"></span>
95     </button>
96
97     <div class="collapse navbar-collapse" id="navbarSupportedContent">
98         <ul class="navbar-nav mr-auto">
```

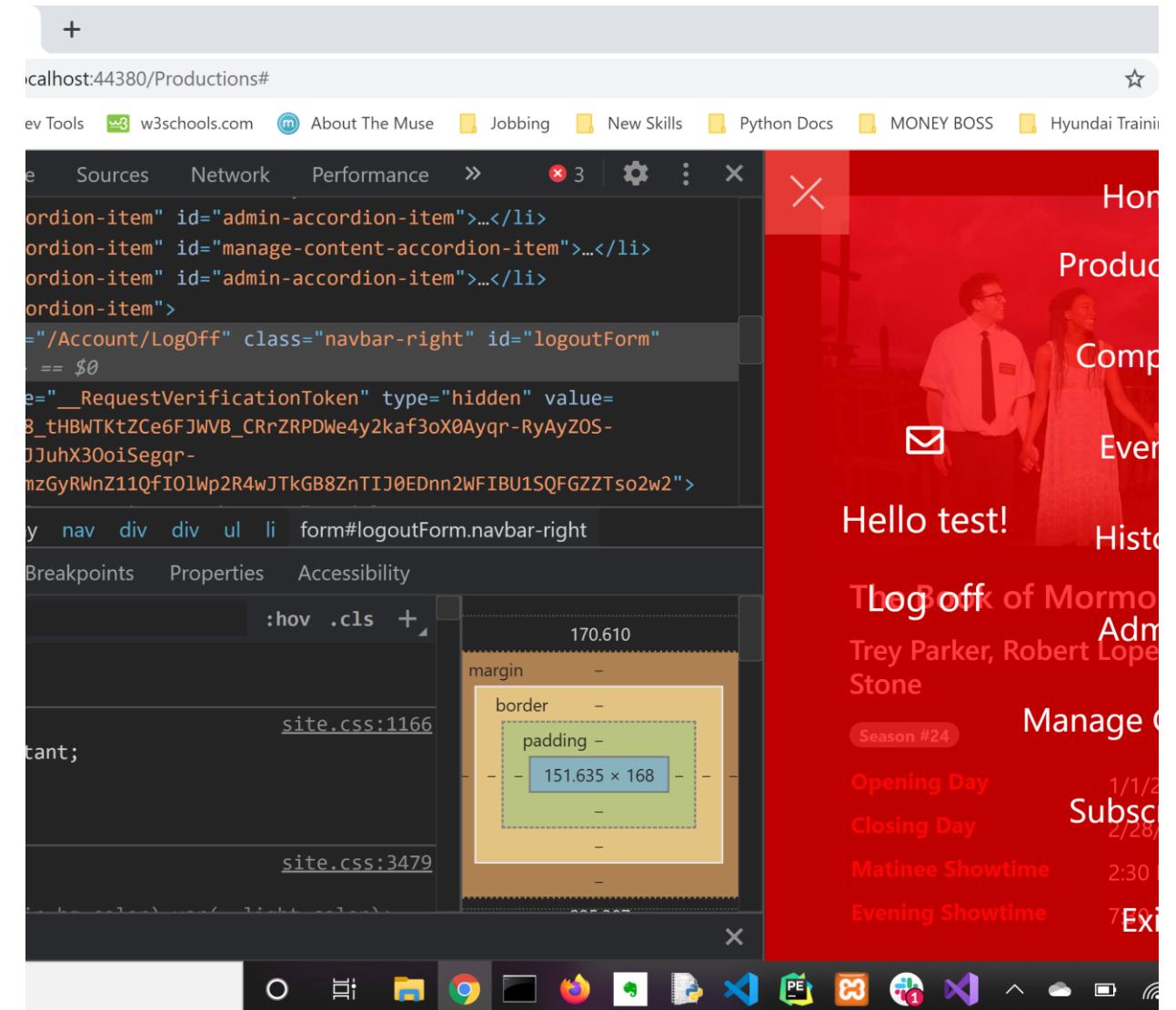
The status bar at the bottom left indicates "No issues found". The bottom right shows the system tray with icons for battery, signal, volume, and network, along with the date and time (12:40 PM, 8/19/2020).

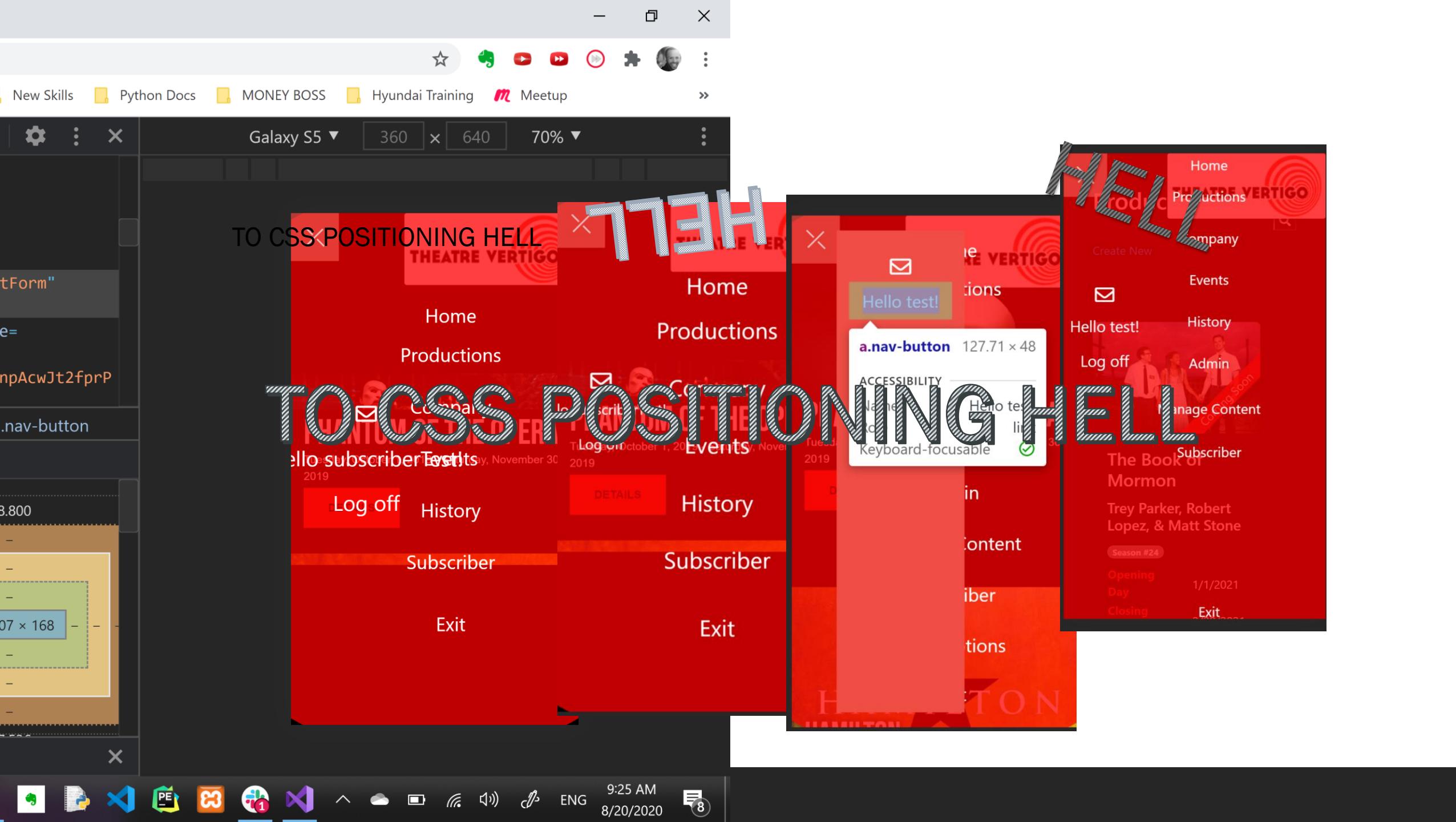
Guess who's back?

Administrative Assistance

So, in order to get the overlay into the project I had to incorporate the Admin/Subscriber functionality from the originally navbar.

Which promptly sent me back...

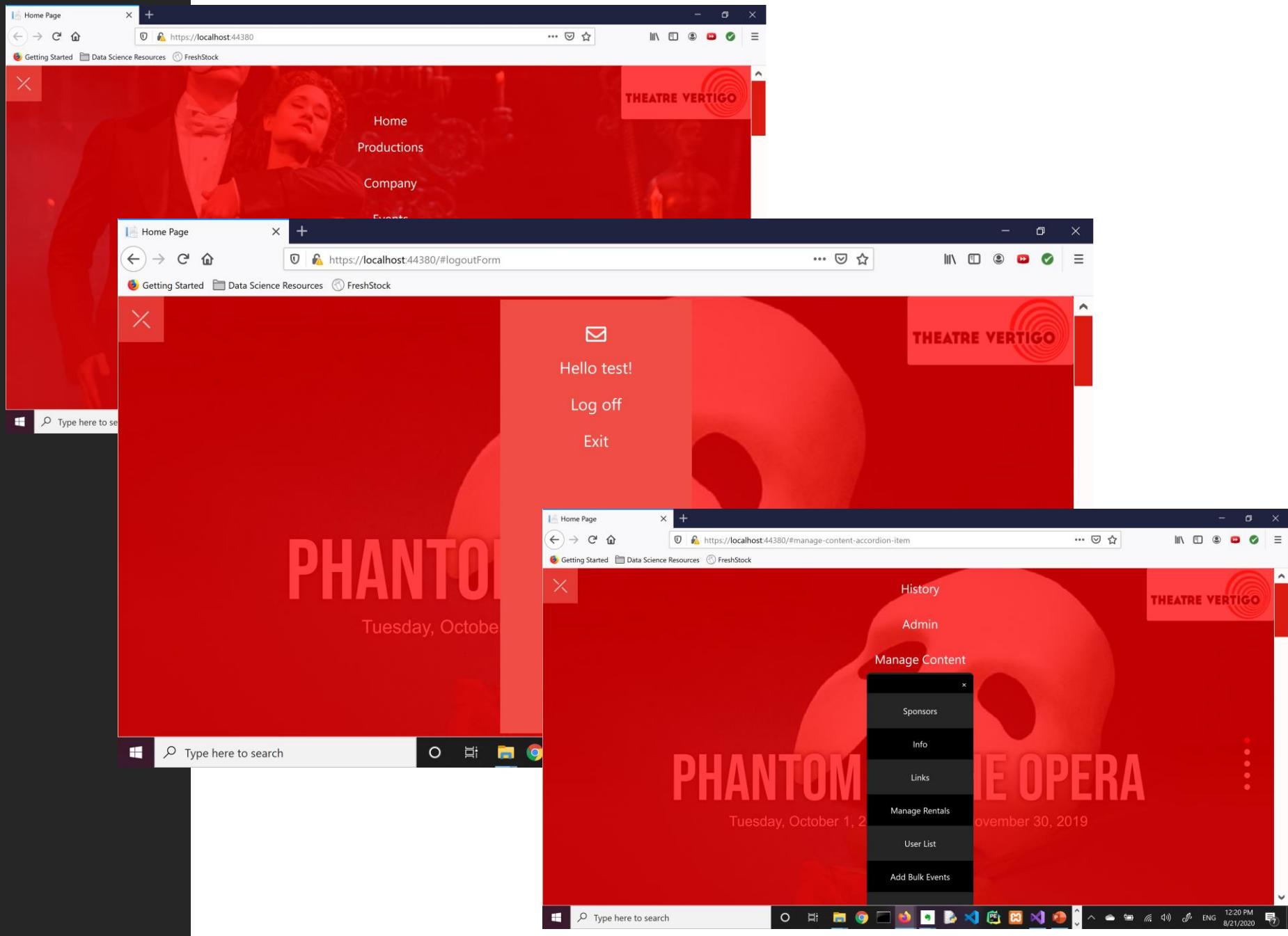




In the words of the
immortal American
Spiritual Song...

WE SHALL OVERLAY...

...some day!



Special thanks to the CMS
directors for letting me join
this amazing project. I've
learned so much!

- ME