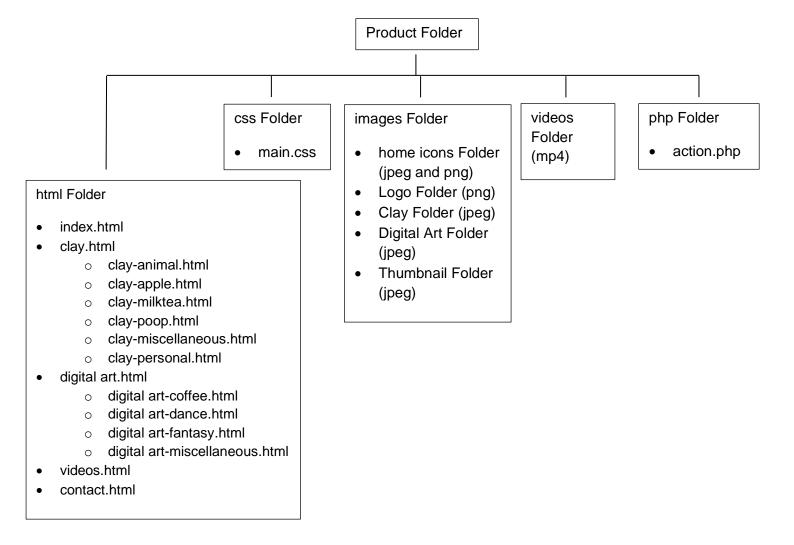
# **Criterion E: Product development**

## Complexities to Address the Client's concerns:

- Cascading Stylesheets (pp. 3- 4)
   Manipulation of HTML (pp. 5- 7)
   Manipulation of PHP (pp. 8)
   Manipulation of Graphics (pp. 9- 11)

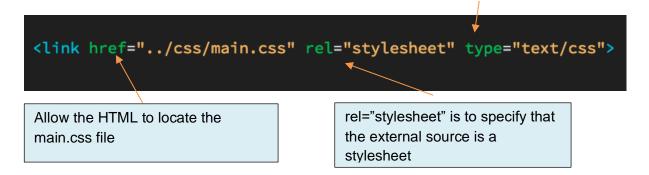


## **Technique: CSS**

The manipulation of CSS code is done in Dreamweaver. CSS is used to design and improve on the layout of the website. All the webpages have one main CSS fail attached, namely, main.css.

The CSS file is attached to the HTML files with the <link> tag:

type="text/css" is to specify that the media type<sup>1</sup> and only allow the sheet to contain CSS code



Figures below are the CSS code that is common for all webpages which is also to ensure consistency between webpages.

## A. Background and Heading

```
Style the <body> tag to change the background color

}

* .header {
    font-family: Baskerville, "Palatino Linotype", Palatino, "Century Schoolbook L", "Times New Roman", "serif";
    font-size: 50px;
    text-align: center;
    color: mediumpurple;

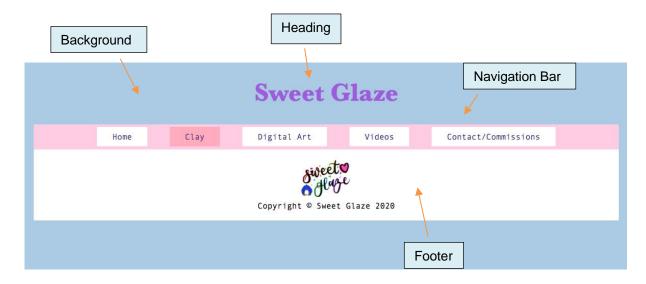
Style the id="header" for
    the heading of the website
}
```

#### **B.** Navigation

<sup>&</sup>lt;sup>1</sup> HTML Type Attribute, www.w3schools.com/tags/att\_type.asp.

## C. Footer

```
footer {
    text-align:center;
    background:white;
    margin: 0px 10px 0px 10px;
    padding: 20px 0px 20px 0px;
    font-family:Consolas, "Andale Mono", "Lucida Console", "Lucida Sans Typewriter", Monaco, "Courier New", "monospace";
}
```



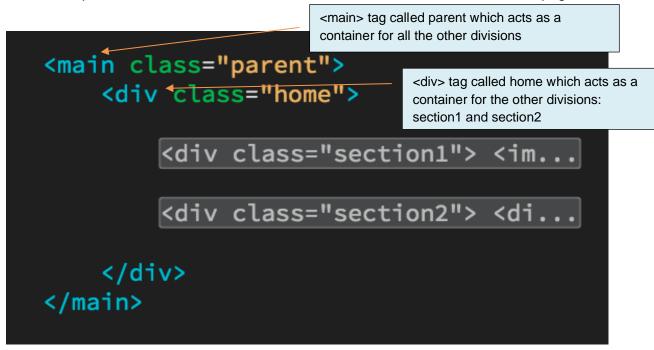
Above shows the screenshot of the website corresponding to the above CSS code. When the cursor hovers over the 'Clay' button, its color changes as seen in the above navigation code.

#### **Technique: HTML to improve Functionality**

#### A. Overall Structure

Divisions are used on the main content of each webpage by mainly using the <main> and <div> tags. These tags are assigned class and identifiers so, that the CSS and JavaScript are able to make changes specific to that element.

For example, this can be seen below which shows the HTML code for the home page.



#### B. Images

As the Client's wish, images are embedded in different webpages with different formatting and layouts. For example, below is HTML of the images that are placed in the division called section2.

```
The <a href="..."> tag is so that when
                                                           alt="..." is the
          the image is clicked, the user is sent to
                                                           alternative text to the
          a specific location
                                                           image
         <a href="clay.html">
         <img src="../images/home icons/IMG_4058.png" alt="Axolotl Icon" style="width:90%">
               class="homedesc">I have always been into clay making! Click for more info! </div>
                                                                                     style="width:..."
src="..." is the location of the image
                                                 The text here is to give
                                                                                     changes the design of
in order for the html to show the
                                                 a description under the
                                                                                     that specific image
image in the website
                                                 image which is
                                                 enveloped inside
                                                 another div tag
```

#### C. Navigation Bar

<nav> tag called navi holding contents inside the navigation bar

<a href="..."> directs the user to the intended location when they click the button in navigation.

#### D. Video Gallery

In videos.html, I placed a video gallery to show videos. The video gallery gives the user a selection of videos of which they can choose from.

The HTML code for the gallery is as follows:

```
type="..." is used to specify that the
                source is an mp4 file
                                                                                       This is so the video has
                                                                                       video and audio controls
                      <video class="slider" src="../videos/Video part 1.mp4" type="video/mp4" controls>
                        <video onclick="videoslider('../videos/Video part 1.mp4')" src="../videos/Video part 1.mp4" poster="../images/Thumbnail/Part 1 thumbnail.png">
</video>
                        ul> and 
                        <video onclick="videoslider('../videos/video part 3.mp4')" src="../videos/video part 3.mp4" poster="../images/Thumbnail/Part 3 thumbnail.png">
tags are used to
                        <video onclick="videoslider('../videos/video part 4.mp4')" src="../videos/video part 4.mp4" poster="../images/Thumbnail/Part 4 thumbnail.png">
</video>
arrange the
video selection
by putting each
<video> into its
                                                                                   poster="..." acts as the
                            Onclick="..." executes the JavaScript
own  tag
                                                                                   thumbnail for the video
                            from source in page 12 when the
                            video is clicked
```

#### E. Contact Form

A contact form is used to allow visitors to give requests and commissions to the client. The contact form is made with the guidance from the ITGS teacher.

Below is the <form> tag in the HTML file:



Below is the content of the <form> tag:

'type' is the kind of input that is accepted

The 'for' attribute is to show which id the label is attached to

'placeholder' is essentially a text to guide the user on what to type on the input

```
<label for="name">Full Name </label>
<input type="text" id="name" name="name" placeholder="Enter your name..">
                                                                     The input is called 'name'
<label for="email">Email</label>
                                                                     and this is used later to get
<input type="email" id="email" name="email" placeholder="Enter y</pre>
<br>
                                                                     the information in the php
<br>
                                                                     code
<label for="subforcontact"> Subject for Contact</label>
<select id="subforcontact" name="subforcontact">
                                                          <select> tag gives the user
    <option value="adclay">Air Dry Clay </option>
                                                          a list to choose from. The
    <option value="pclay"> Polymer Clay</option>
    <option value="digart">Digital Art</option>
                                                          <option> tag shows the
    <option value="quest"> Others</option>
                                                         content of the list.
        </select>
<label for="content"> Message</label>
<textarea id="content" name="content" placeholder="Tell us more..." style="height:200px">
</textarea>
<input type="submit" value="Submit">
  <textarea> tag is the
  space that allows the user
  to type in
```

<sup>&</sup>lt;sup>2</sup> Broadley, Claire, and Claire is seasoned technical writer. "Attribute for METHOD = GET: POST." ", 3 Nov. 2019, html.com/attributes/form-method.

## **Technique: Using PHP to improve Functionality**

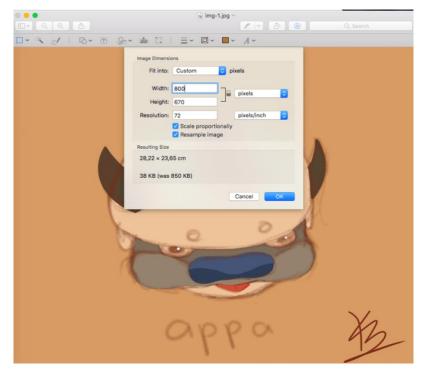
PHP code is used to handle the content when the user submits the contact form. Below is the code inside the action.php file.

```
<?php
                                                Declaring variables. $ POST is
$name = $_POST['name'];
                                                to obtain the value of inputs
$email_from = $_POST['email'];
                                                inside the <form> tag from the
$subforcontact = $_POST['subject'];
                                                HTML file
$content = $_POST['content'];
$email_subject= "Form Submission from Sweet Glaze";
$email_body= "Visitor Name: $name.\n".
                       "Visitor email: $email.\n".
                                                                           Declaring
                            "Visitor Subject: $subforcontent.\n".
                                                                           variables for
                                 "Visitor Content: $content.\n";
                                                                           the content
                                                                           of the mail
         $to= "fenylau@gmail.com";
    $headers= "From".$email_from;
mail($to,$email_subject,$email_body,$headers);
         header("Location: contact.html");
                                                          mail(...) is so it
?>
                                                          can send the
          header() where
                                                          variables to the
          it goes back to
          after the form is
                                                          email
          submitted
```

The data from the form is collected and sent to the client's email.

## **Technique: Image Manipulation**

## A. Reducing File size

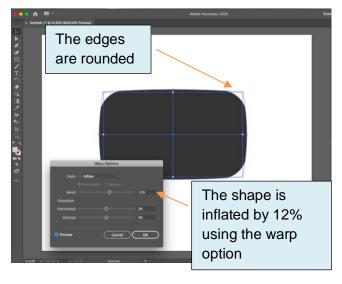


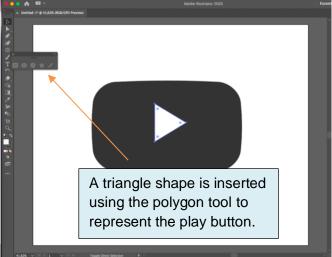
Images are manipulated to change in width and height using Preview. This is to reduce the file size so the images can load faster in the website and to prevent visitors to steal the original images. As seen on the left, the image was 850 KB and after changing the width and height it becomes 38 KB.

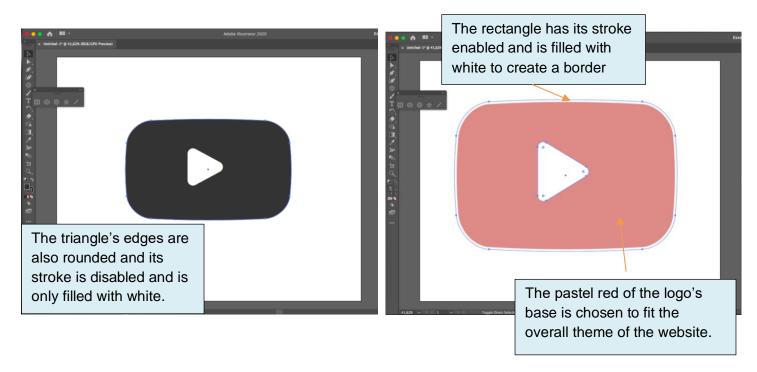
## B. Making Logos/ Icons

Adobe Illustrator was used to design logos for page 5 (Contact Us/ Commissions) to link to social medias.

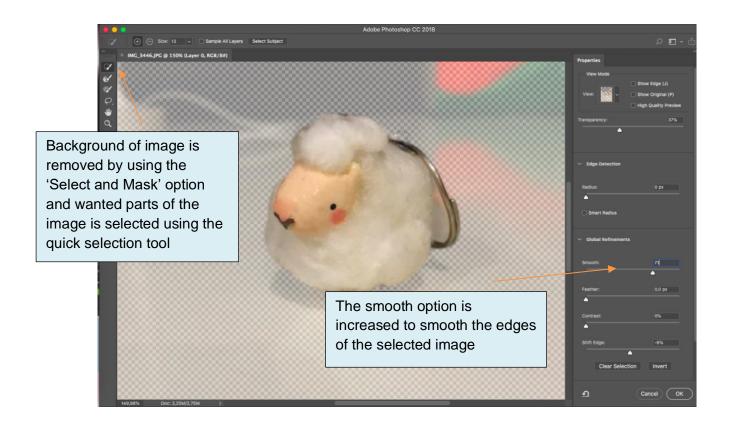
Images below show the process of creating a YouTube logo.

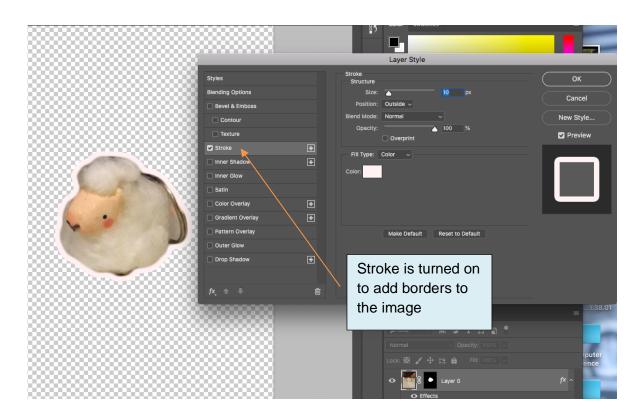


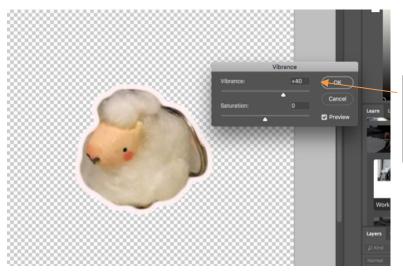




The home page also requires icons. This time, Adobe Photoshop is used to make these icons by modifying the appearance of the Client's image as seen below.







Vibrance of the image is increased by 60 To produce more user interaction there are some sections of the code of the website that are written in reference to the following tutorials and adjusting the code to fit appropriate class and identifier names:

A. To make the sticky navigation so that the navigation bar remains at the top when the user scrolls down:

"How TO - Sticky/Affix Navbar." *How To Create a Sticky Navbar*, www.w3schools.com/howto/howto\_js\_navbar\_sticky.asp.

B. To make image gallery and lightbox in order to organize the images and to open up a lightbox when images are clicked:

CSS Image Gallery, www.w3schools.com/css/css\_image\_gallery.asp.

"How TO - Lightbox." *How To Create a Lightbox*, www.w3schools.com/howto/howto\_js\_lightbox.asp.

C. To make the video gallery in order to organize videos and switch between videos in big screen:

I Make Design Easy. "Video Slider Using Html Css and Javascript | Video Slider Tutorial | Frontend Design." *YouTube*, YouTube, 14 Aug. 2020, www.youtube.com/watch?v=M8\_2\_p47UXI.

D. To make vertical tabs in order to display alternating content in a single webpage: "How TO - Vertical Tabs." *How To Create Vertical Tabs*, www.w3schools.com/howto/howto\_js\_vertical\_tabs.asp.

Word Count: 1172

#### **Works Cited**

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Easy Tutorials. "Create Working Contact Form Using HTML, CSS, PHP | Contact Form Design." YouTube, YouTube, 11 Feb. 2018, www.youtube.com/watch?v=lv93yjdvkWl&t=847s.

CSS Image Gallery, www.w3schools.com/css/css image gallery.asp.

- "How TO Contact Form." *How To Create a Contact Form with CSS*, www.w3schools.com/howto/howto\_css\_contact\_form.asp.
- "How TO Lightbox." *How To Create a Lightbox*, www.w3schools.com/howto/howto\_js\_lightbox.asp.
- "How TO Sticky/Affix Navbar." *How To Create a Sticky Navbar*, www.w3schools.com/howto/howto\_js\_navbar\_sticky.asp.

- "How TO Vertical Tabs." *How To Create Vertical Tabs*, www.w3schools.com/howto/howto\_js\_vertical\_tabs.asp.
- HTML Type Attribute, www.w3schools.com/tags/att\_type.asp.
- I Make Design Easy. "Video Slider Using Html Css and Javascript | Video Slider Tutorial | Frontend Design." YouTube, YouTube, 14 Aug. 2020, www.youtube.com/watch?v=M8\_2\_p47UXI.
- Krossing, Dani. "58: How to Create A PHP Contact Form: PHP Tutorial: Learn PHP Programming: HTML Contact Form." *YouTube*, 27 Nov. 2017, youtu.be/4q0gYjAVonl.