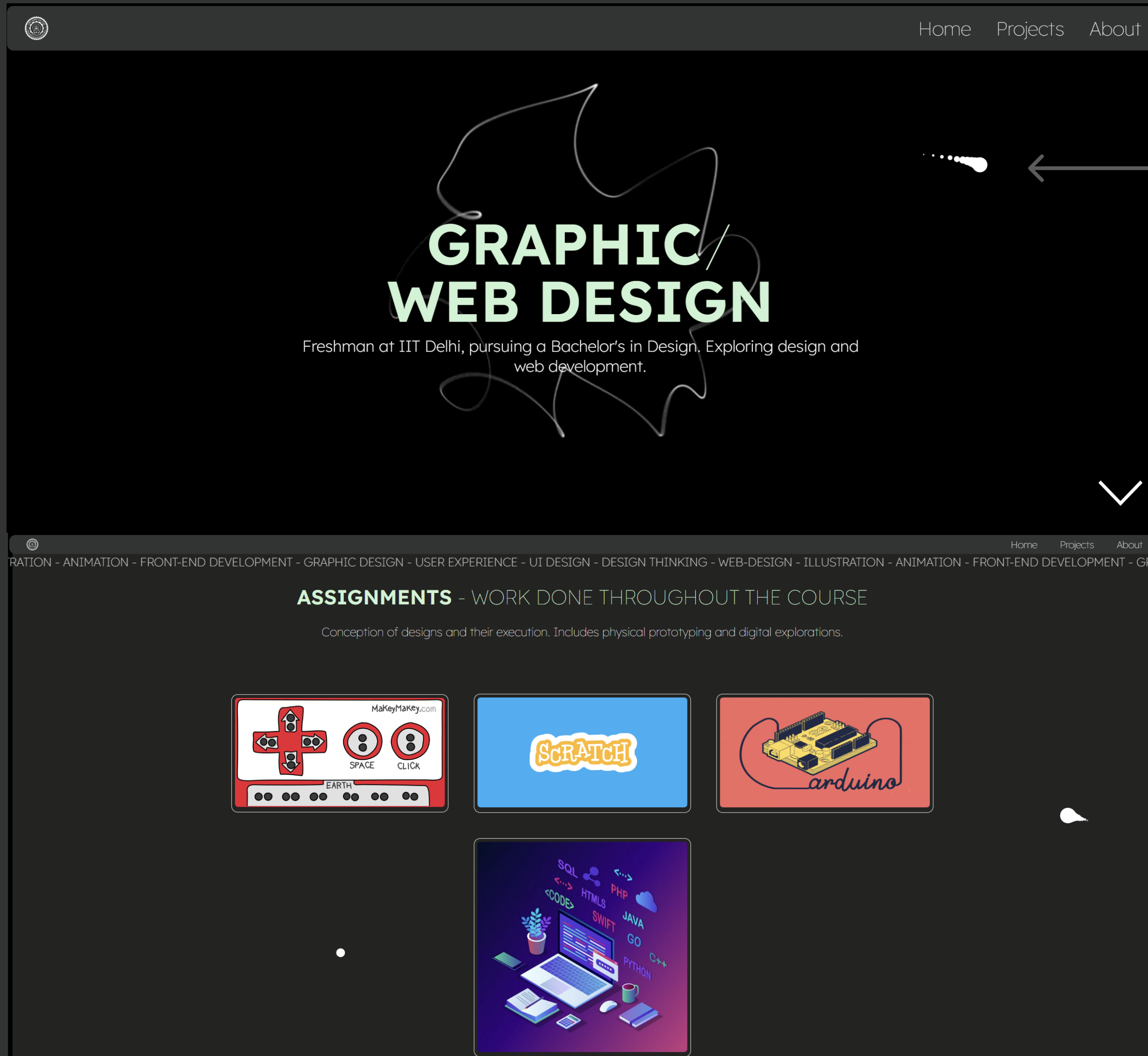WEBSITE DESIGN

WEBSITE DESIGN - LANDING PAGE

Fixed Navigation Bar

Custom-coded cursor

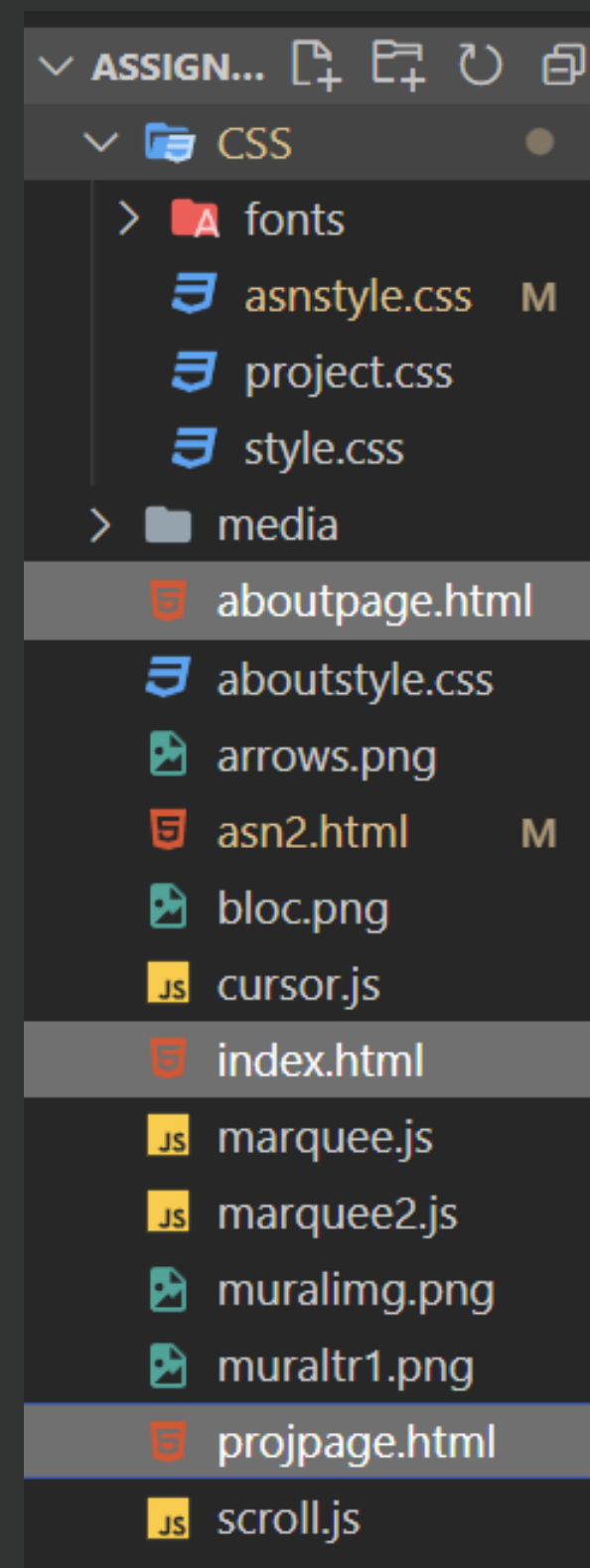Home Page with Dynamic Background

Dynamic TopNav Animation

Seamless Marquee

Assigment display cards

The website was designed to house a multitude of functions, I tried to keep all the elements fairly dynamic which also trying to maintain their legibility.

WEBSITE DESIGN - LAYOUT

The website is divided into three major sections with the home, project/assignments and about me pages

WEBSITE DESIGN - LAYOUT

HOME/LANDING PAGE

Incorporated a moving GIF-Based background
with a separate section on the same page for assignments

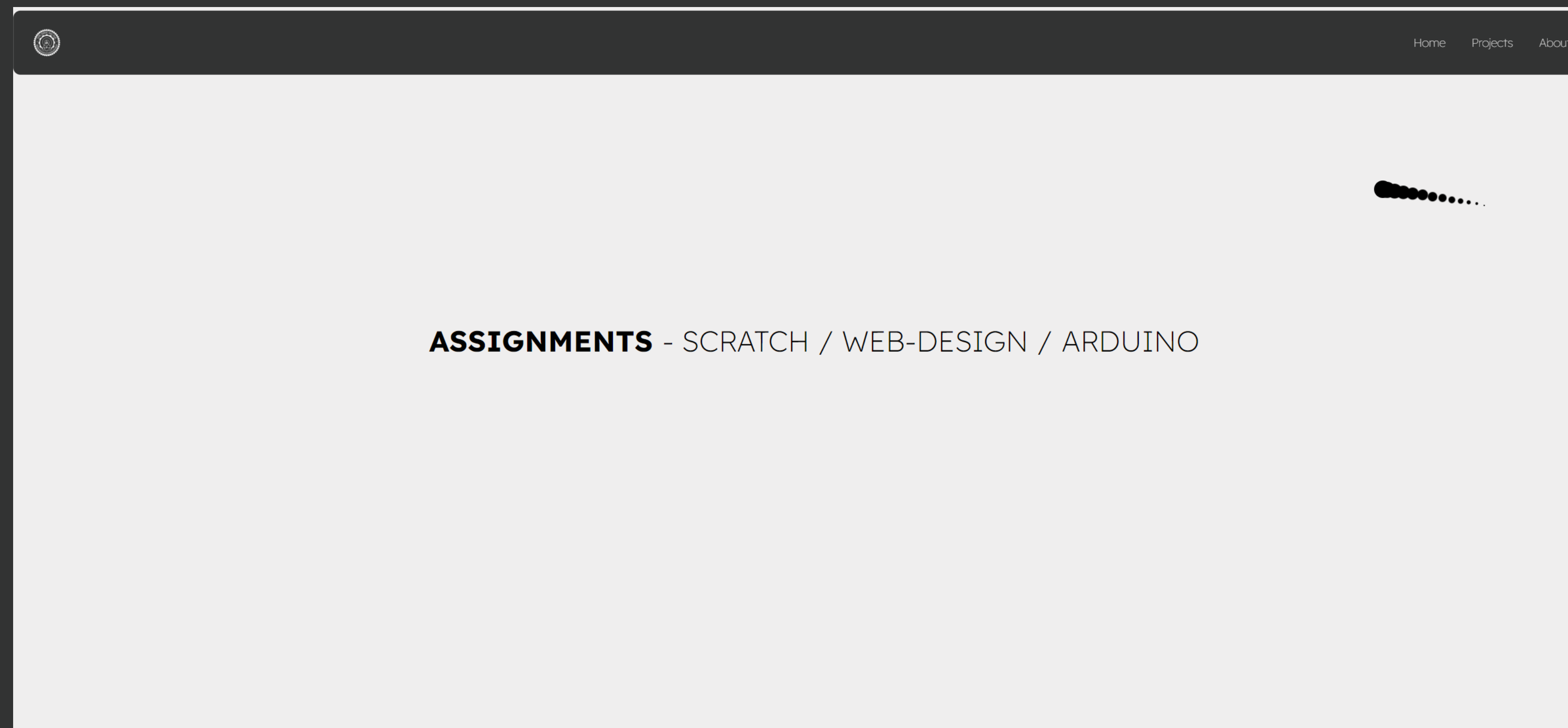# WEBSITE DESIGN - LAYOUT

ABOUT ME/DESCRIPTION PAGE

Used container div(s) and learned how they interact when place alongside each other.
Also added a short description/introduction text.

WEBSITE DESIGN - LAYOUT

PROJECTS PAGE

Added a page dedicated for displaying projects as and when required.
Extremely modular, easy to upload, used flexbox and containers
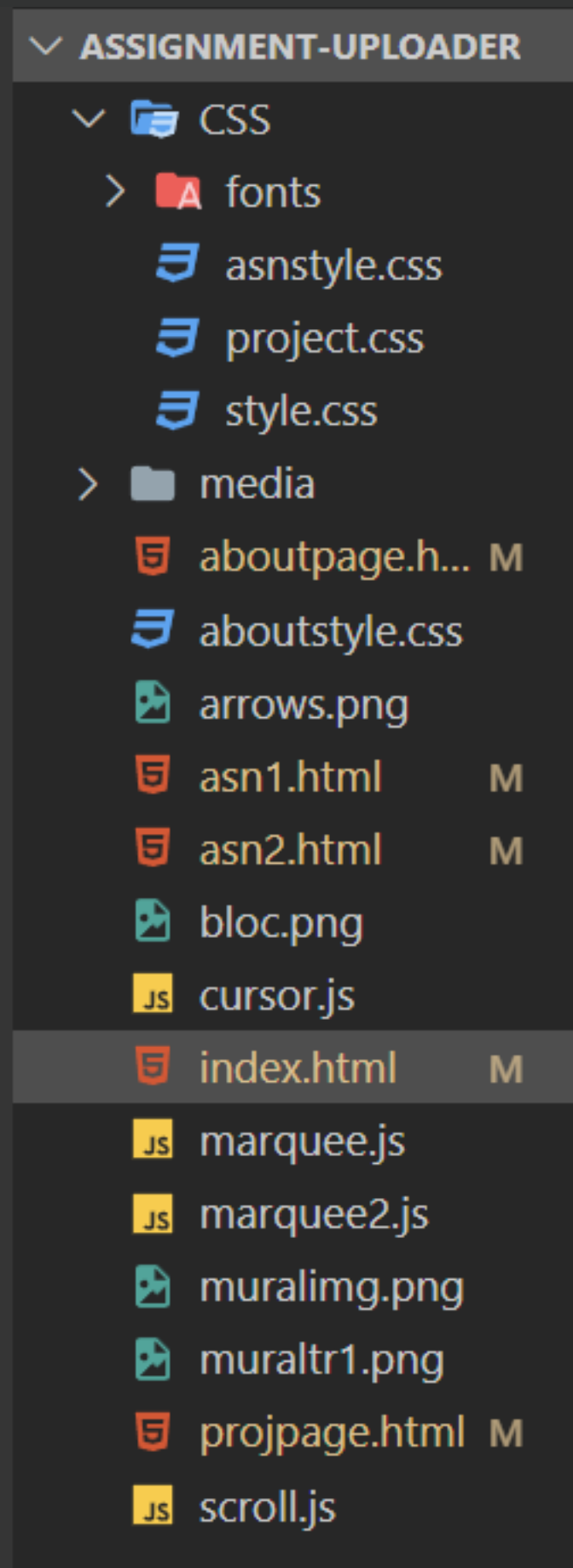
WEBSITE DESIGN - CODE

The entirety of this webpage was coded by me from scratch, and along the way I picked up a multitude of skills.

I picked up and learnt HTML in order to create the separate webpages

WEBSITE DESIGN - CODE

Basic layout of pages

ASSIGNMENT-UPLOADER
- ⌄ 📁 CSS
  - ⟩ 🅰 fonts
  - ⧎ asnstyle.css
  - ⧎ project.css
  - ⧎ style.css
- ⟩ 📁 media
- ⧎ aboutpage.h... M
- ⧎ aboutstyle.css
- 🖼 arrows.png
- ⧎ asn1.html M
- ⧎ asn2.html M
- 🖼 bloc.png
- 🟨 cursor.js
- ⧎ index.html M
- 🟨 marquee.js
- 🟨 marquee2.js
- 🖼 muralimg.png
- 🖼 muraltr1.png
- ⧎ projpage.html M
- 🟨 scroll.js

```
ex.html > ⬡ html > ⬡ body > ⬡ div > ⬡ div#myTopnav.topnav
  <body>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>
      <div class="circle"></div>

      <h1 class="webd">GRAPHIC<span>/</span><br>WEB DESIGN</h1>
      <h3 class="desc">Freshman at IIT Delhi, pursuing a Bachelor's in Design. Exploring design and web development.<
      <div class="darrow">
          <img src="arrows.png" id="darrowui" height="40" width="70">
      </div>

      <div>
          <div class="bgvid"></div>
      <div class="topnav" id="myTopnav">

          <a href="https://home.iitd.ac.in/" target="_blank">
              <img src="https://home.iitd.ac.in/images/logo-iit.png" id="navImg" height="40" width="40" alt="IITD">
          </a>

          <ul>
          <li><a class="active" href="#top">Home</a></li>
          <li><a href="#proj">Assignments</a></li>
          <li><a href="projpage.html">Projects</a></li>
          <li><a href="aboutpage.html">About</a></li>
          </ul>
      </div>
```

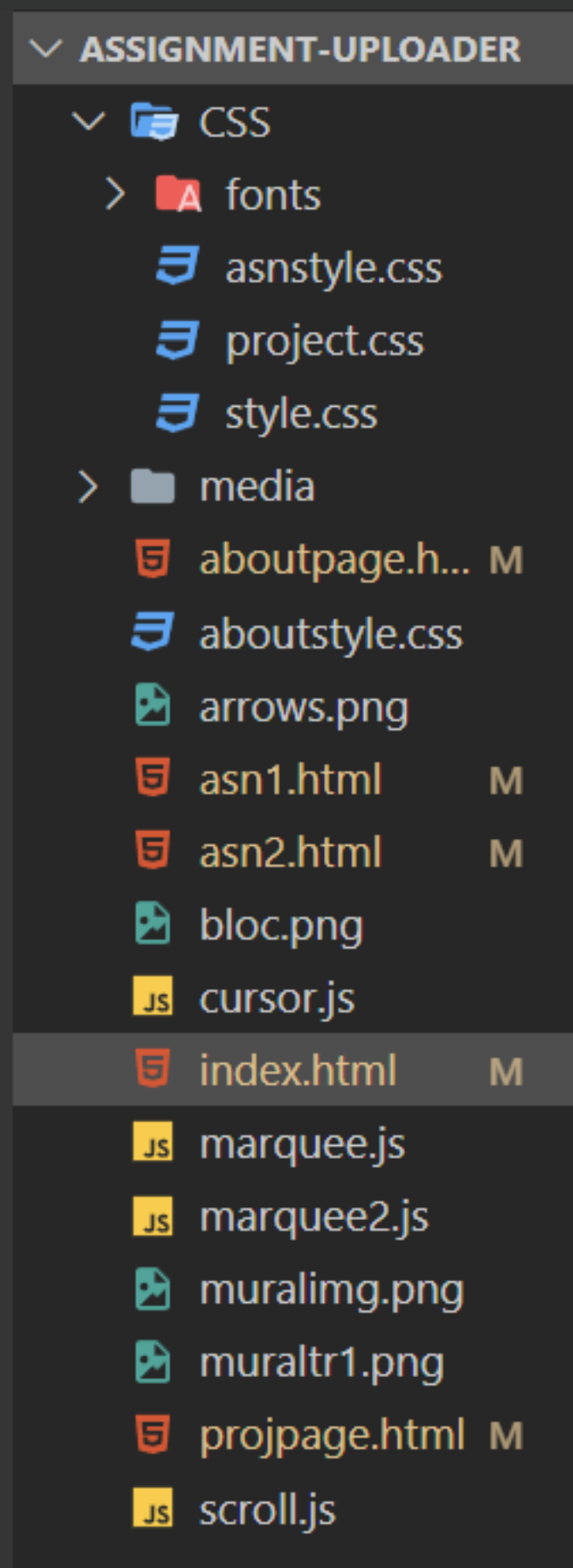Declared "Circle" divs that will constitute the custom cursor on each page

Created div to place the dynamic background labeled "bgvid"

Created listed elements for the contents of Navigation Bar

WEBSITE DESIGN - CODE

Basic layout of pages

ASSIGNMENT-UPLOADER
- ∨ 📁 CSS
  - › 🅰️ fonts
  - 🔲 asnstyle.css
  - 🔲 project.css
  - 🔲 style.css
- › 📁 media
- 🔲 aboutpage.h... M
- 🔲 aboutstyle.css
- 🖼️ arrows.png
- 🔲 asn1.html M
- 🔲 asn2.html M
- 🖼️ bloc.png
- 🟨 cursor.js
- 🔲 index.html M
- 🟨 marquee.js
- 🟨 marquee2.js
- 🖼️ muralimg.png
- 🖼️ muraltr1.png
- 🔲 projpage.html M
- 🟨 scroll.js

```html
<div class="projContainer">


    <a href="asn1.html" class="projBox" target="_blank">
        <img src="https://cdn.shopify.com/s/files/1/0162/8612/articles/mm_Inputs_drawing_1400x.png?v=1561149704" alt=""><p
        class="assh">Makey-Makey</p>
    </a>

    <a href="https://www.behance.net/gallery/166350679/ScratchArduino-Game-Design" class="projBox" target="_blank">
        <img src="https://scratch.mit.edu/images/scratch-og.png" alt=""><p class="assh">Scratch/Game Programming</p>
    </a>

    <a href="" class="projBox">
        <div class="ard"><img src="https://www.ponoko.com/blog/wp-content/uploads/2018/10/Arduino-Guide-1024x682.png" alt="
        div><p class="assh">Arduino</p>
    </a>

    <a href="asn2.html" class="projBox" target="_blank">
        <img src="media/webdes.jpg" alt=""><p class="assh">Website Design</p>
    </a>

</div>
</div>
</div>
```
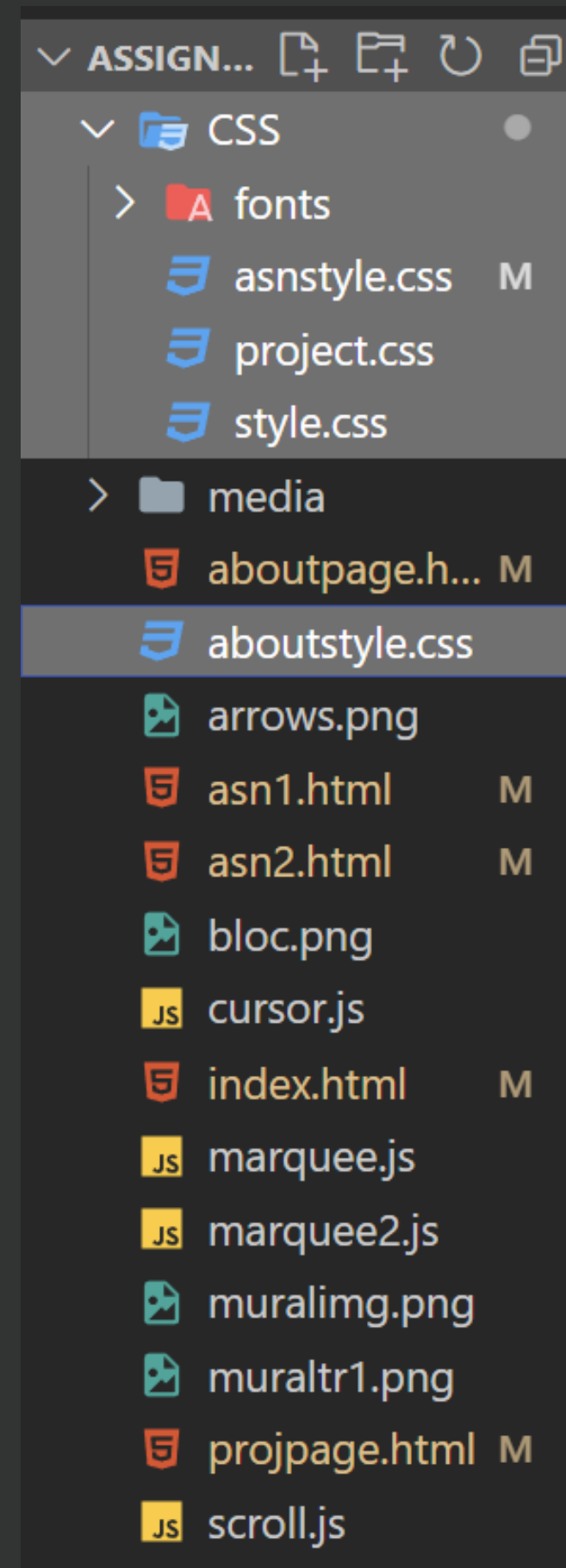
Creating a div preset to contain all elements such as assignments

WEBSITE DESIGN - CODE

I also had to learn CSS and layout to appropriately style the various webpages

WEBSITE DESIGN - CODE

Some insights into basic CSS layout of pages

CSS > 3 project.css > 🔀 html

```css
1   @import url("https://fonts.googleapis.com/css?family=Urbanist");
2   @import url("https://fonts.googleapis.com/css?family=Kosugi");
3   @import url("https://fonts.googleapis.com/css2?family=Asul:wght@70
```

Importing fonts from Google's Fonts API

ASSIGN...
- ∨ 📁 CSS
  - > 🅰 fonts
  - 3 asnstyle.css M
  - 3 project.css
  - 3 style.css
- > 📁 media
- 📄 aboutpage.h... M
- 3 aboutstyle.css
- 🖼 arrows.png
- 📄 asn1.html   M
- 📄 asn2.html   M
- 🖼 bloc.png
- JS cursor.js
- 📄 index.html   M
- JS marquee.js
- JS marquee2.js
- 🖼 muralimg.png
- 🖼 muraltr1.png
- 📄 projpage.html M
- JS scroll.js

```css
.topnav {
    transform: translate(-5px, 5px);
    background-color: ▢#323333;
    overflow: hidden;
    border-radius: 10px;
    position: fixed;
    top: 0;
    width: 100%;
    transition: 0.2s;
    align-items: center;
    display: flex;
    justify-content: space-between;
    z-index: 2;
}

.topnav ul {
    list-style: none;
    padding-right: 10px;
    margin: 0;
    text-align: right;
}

.topnav li {
    display: inline-block;
}
```

```css
.circle {
    height: 24px;
    width: 24px;
    border-radius: 24px;
    background-color: ■rgb(0, 0, 0);
    position: fixed;
    top: 0;
    left: 0;
    z-index: 1000;
    pointer-events: none;
}
```
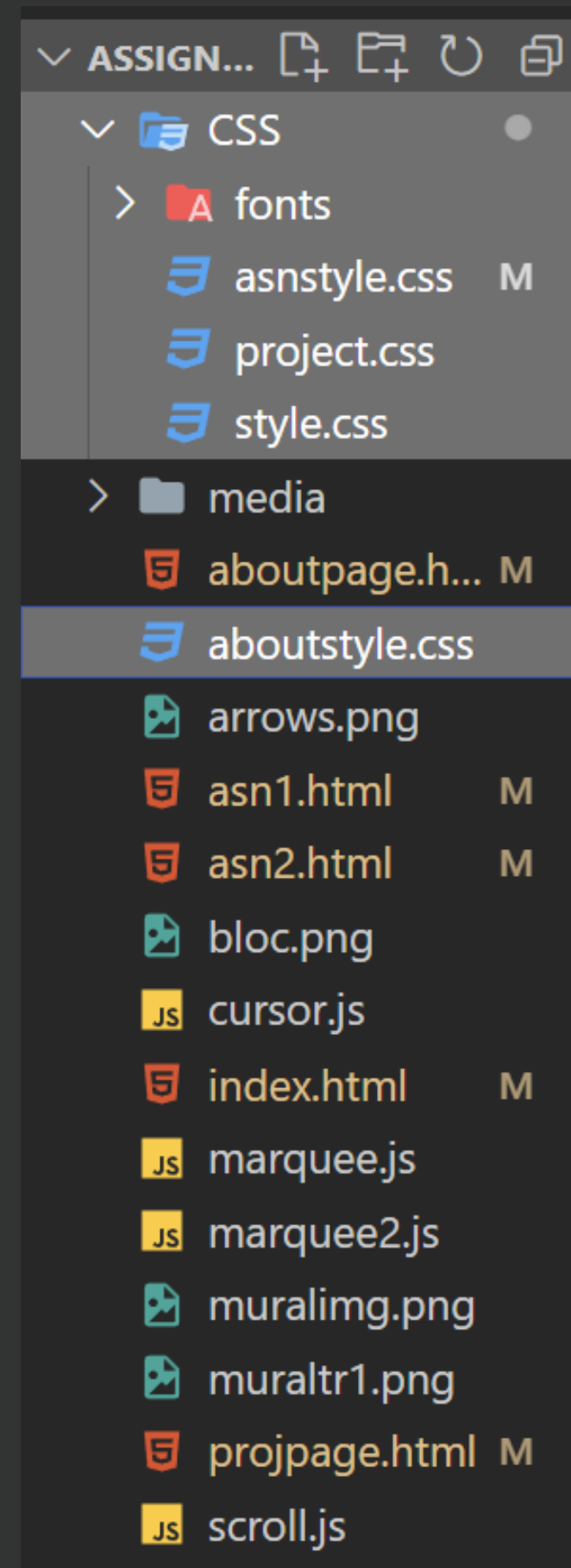
Styling cursor circles to contrast the background

Using translate(X)/(Y) to properly place top nav

WEBSITE DESIGN - CODE

Some insights into basic CSS layout of pages

```
199
200   .bgvid {
201     position: relative;
202     min-height: 100vh;
203     width: 100%;
204     background-image: url(https://64.media.tumblr.com/5e8015de8e0500463c2c3a72251272c3/tumblr_pd7ao4sAc91w3y4ilo1_r1_500.gifv);
205     background-position: center;
206     background-repeat: no-repeat;
207     background-size: 50%;
208     background-color: ☐#000;
209   }
210
211   .bgvid-overlay {
212     position: absolute;
213     top: 0;
214     left: 0;
215     width: 100%;
216     height: 100%;
217     background-color: ☐rgba(0, 0, 0, 0.5);
218   }
219
220   .projHeading {
221     display: flex;
222     justify-content: center;
223     align-items: center;
224     flex-direction: column;
225     margin: 50px 0px;
226     font-family: "Lexend";
227     line-height: 100%;
228   }
229
```

File explorer:
- CSS
  - fonts
  - asnstyle.css   M
  - project.css
  - style.css
- media
- aboutpage.h...   M
- aboutstyle.css
- arrows.png
- asn1.html   M
- asn2.html   M
- bloc.png
- cursor.js
- index.html   M
- marquee.js
- marquee2.js
- muralimg.png
- muraltr1.png
- projpage.html   M
- scroll.js

Styling the dynamic background to loop seamlessly and creating overlay to make it less opaque
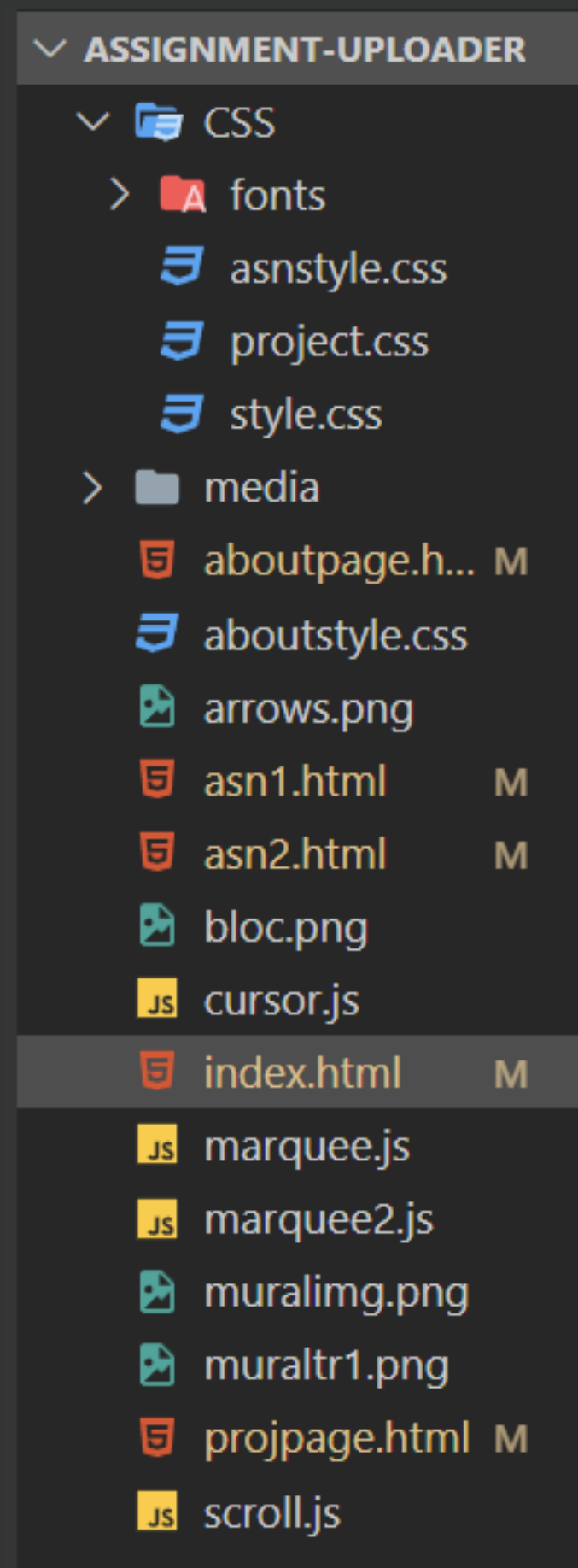
WEBSITE DESIGN - CODE

As I also wanted to include many interactive features and modify the behavioral aspect of certain elements such as the dynamic top navigation bar and the custom coded cursor, both built from the ground up. To this end, I had to also become fairly well-versed in JavaScript.

WEBSITE DESIGN - CODE

ASSIGNMENT-UPLOADER
- CSS
  - fonts
  - asnstyle.css
  - project.css
  - style.css
- media
- aboutpage.h...   M
- aboutstyle.css
- arrows.png
- asn1.html   M
- asn2.html   M
- bloc.png
- cursor.js
- index.html   M
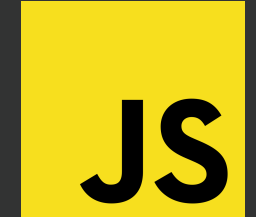- marquee.js
- marquee2.js
- muralimg.png
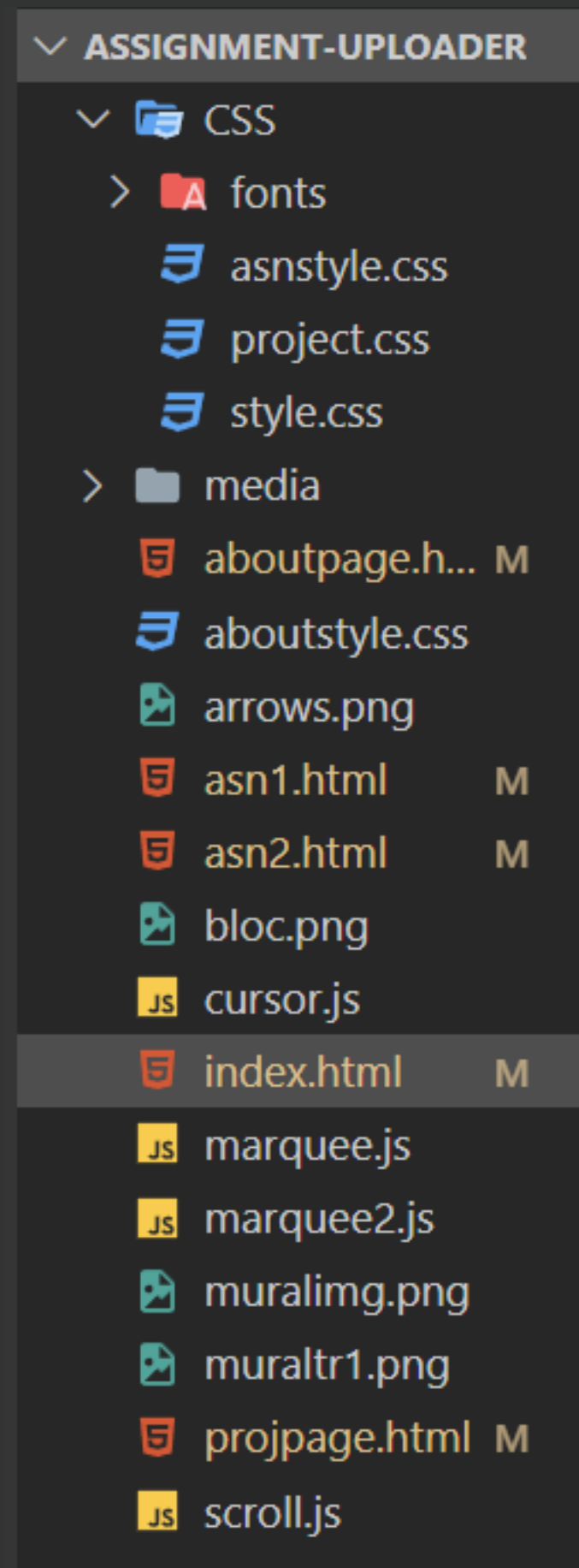- muraltr1.png
- projpage.html   M
- scroll.js

```js
cursor.js > window.addEventListener("mousemove") callback
1   const coords = {x: 0,y: 0};
2   const circles = document.querySelectorAll(".circle");
3
4   circles.forEach(function(circle) {
5       circle.x=0;
6       circle.y=0;
7   });
8
9   window.addEventListener("mousemove",function(e){
10      coords.x=e.clientX;
11      coords.y=e.clientY;
12
13      animateCircles();
14
15  });
16
17  function animateCircles() {
18
19      let x = coords.x;
20      let y = coords.y;
21
22      circles.forEach(function(circle,index) {
23          circle.style.left=x-12+"px";
24          circle.style.top=y-12+"px";
25          circle.x=x;
26          circle.y=y;
27
28          circle.style.scale = (13-index)/13;
29
30          const nextCircle = circles[index + 1] || circles [0];
31          x+= (nextCircle.x-x) * 0.3;
32          y+= (nextCircle.y-y)* 0.3;
33
34
35      });
```

Javascript code for the custom cursor that records the user's mouse coordinates on the page and places the "Circle" div at those coordinates
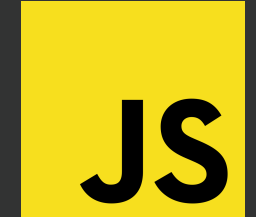
JS

WEBSITE DESIGN - CODE

```
ASSIGNMENT-UPLOADER
∨ ⊡ CSS
  > ◣ fonts
    � 킈 asnstyle.css
    킈 project.css
    킈 style.css
  > ▢ media
  □ aboutpage.h...  M
  킈 aboutstyle.css
  ▨ arrows.png
  □ asn1.html      M
  □ asn2.html      M
  ▨ bloc.png
  ◩ cursor.js
  □ index.html     M
  ◩ marquee.js
  ◩ marquee2.js
  ▨ muralimg.png
  ▨ muraltr1.png
  □ projpage.html  M
  ◩ scroll.js
```
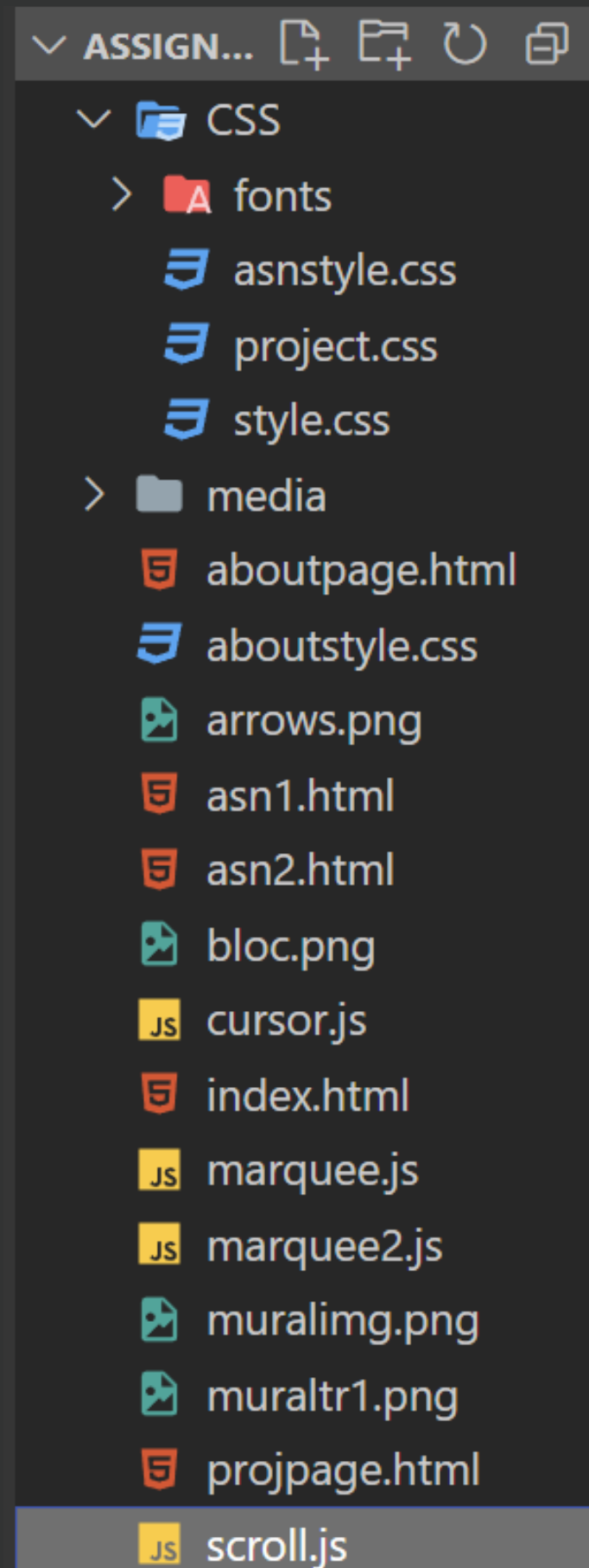
```javascript
cursor.js > ⬡ window.addEventListener("mousemove") callback
1   const coords = {x: 0,y: 0};
2   const circles = document.querySelectorAll(".circle");
3
4   circles.forEach(function(circle) {
5       circle.x=0;
6       circle.y=0;
7   });
8
9   window.addEventListener("mousemove",function(e){
10      coords.x=e.clientX;
11      coords.y=e.clientY;
12
13    animateCircles();
14
15  });
16
17  function animateCircles() {
18
19      let x = coords.x;
20      let y = coords.y;
21
22      circles.forEach(function(circle,index) {
23          circle.style.left=x-12+"px";
24          circle.style.top=y-12+"px";
25          circle.x=x;
26          circle.y=y;
27
28          circle.style.scale = (13-index)/13;
29
30          const nextCircle = circles[index + 1] || circles [0];
31          x+= (nextCircle.x-x) * 0.3;
32          y+= (nextCircle.y-y)* 0.3;
33
34
35      });
```

```html
<body>
  <div class="circle" style="left: 566px; top: 110px; scale: 1;
  <div class="circle" style="left: 565.998px; top: 110.453px; s
  23077;"></div>
  <div class="circle" style="left: 565.989px; top: 110.93px; sc
  6154;"></div>
  <div class="circle" style="left: 565.971px; top: 111.42px; sc
  9231;"></div>
  <div class="circle" style="left: 565.941px; top: 111.913px; s
  92308;"></div>
  <div class="circle" style="left: 565.899px; top: 112.399px; s
  15385;"></div>
  <div class="circle" style="left: 565.846px; top: 112.873px; s
  38462;"></div>
  <div class="circle" style="left: 565.782px; top: 113.334px; s
  61538;"></div>
  <div class="circle" style="left: 565.71px; top: 113.783px; sc
  4615;"></div>
  <div class="circle" style="left: 565.632px; top: 114.221px; s
  07692;"></div>
  <div class="circle" style="left: 565.55px; top: 114.652px; sc
  0769;"></div>
  <div class="circle" style="left: 565.464px; top: 115.079px; s
  53846;"></div>
  <div class="circle" style="left: 565.376px; top: 115.505px; s
  769231;"></div>
```

— Script working on site

JS

WEBSITE DESIGN - CODE

```
ASSIGN...
∨ CSS
  > fonts
    asnstyle.css
    project.css
    style.css
  > media
    aboutpage.html
    aboutstyle.css
    arrows.png
    asn1.html
    asn2.html
    bloc.png
    cursor.js
    index.html
    marquee.js
    marquee2.js
    muralimg.png
    muraltr1.png
    projpage.html
    scroll.js
```

```javascript
scroll.js > ...
1  function scroller() {
2      window.onscroll = function() {
3
4          if(document.documentElement.scrollTop > 50) {
5              document.getElementById("myTopnav").style.height = "30px";
6              document.getElementById("myTopnav").style.fontSize = "15px";
7              document.getElementById("navImg").style.height = "20px";
8              document.getElementById("navImg").style.width = "20px";
9          }
10
11         else {scroll.js
12             document.getElementById("myTopnav").style.height = "70px";
13             document.getElementById("myTopnav").style.fontSize = "30px";
14             document.getElementById("navImg").style.height = "40px";
15             document.getElementById("navImg").style.width = "40px";
16         }
17     }
18 }
19 window.onload = scroller;
```

Simple JS code to change top navigation bar size depening on user scroll

JS

WEBSITE DESIGN - DEPLOYMENT

Here is the list of programs I utilized to create the webpage:

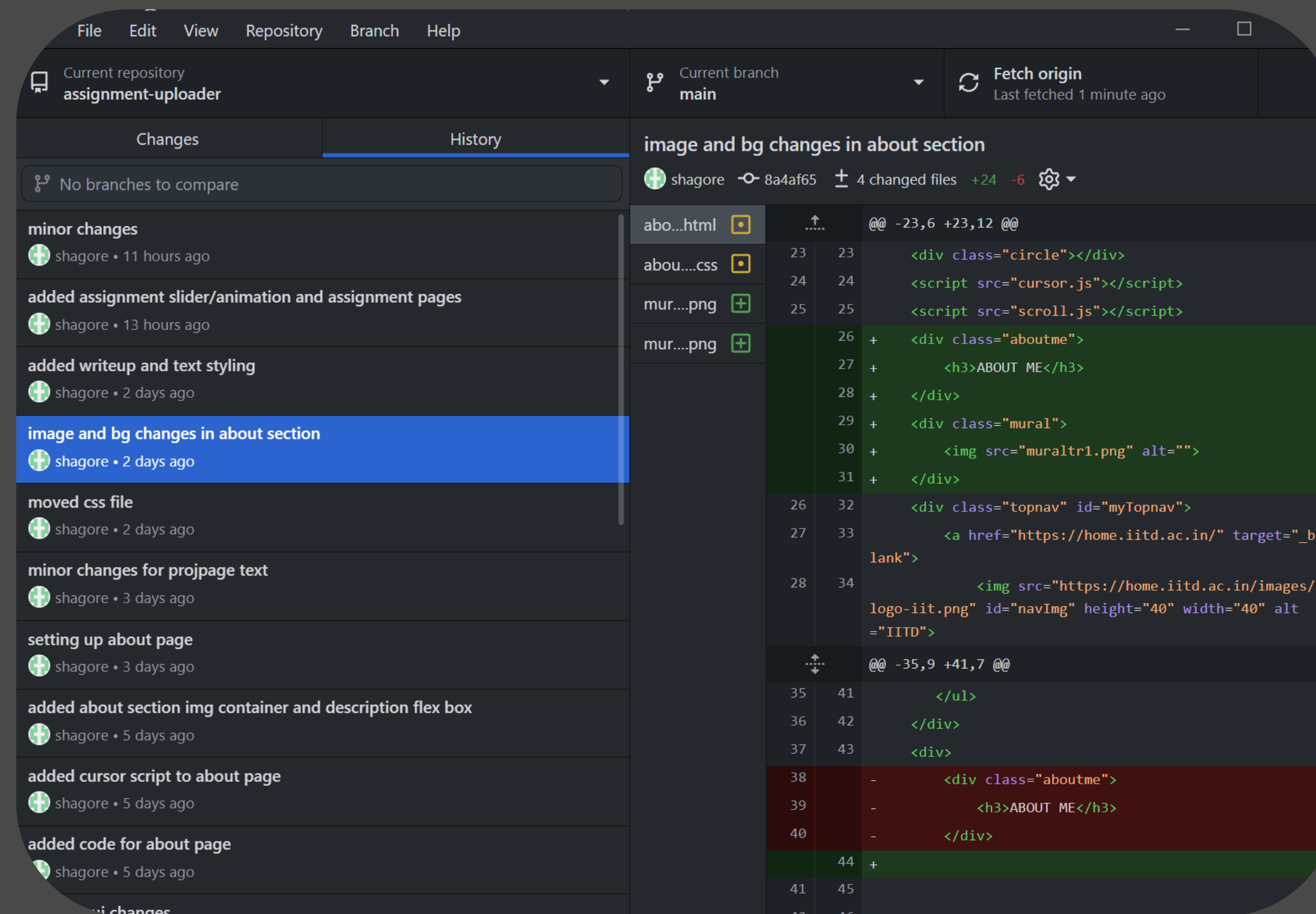|	
	Visual Studio Code: I chose this editor due to its versatility and in-depth customization options
	Adobe Illustrator: Used to create many of the icons and other graphic elements used in the page
	GitHub: Used to make the repository to upload and document the code, also used to host the webpage

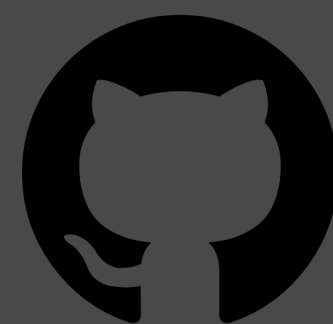# WEBSITE DESIGN - DEPLOYMENT

GitHub client that I used, showcasing the history of the repo, and the changes that I made along the entire process

WEBSITE DESIGN - DEPLOYMENT

The project repository can be found at the following link.

https://github.com/shagore/assignment-uploader

THANK YOU