REPORT

WEB PROGRAMMING

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GENERAL

Bootstrap 5 is used for layouting purpose. FontAwesome icons is used for decoration. Importing Bootstrap 5 files via CDN:

```html
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
```

Basic Layouting in Bootstrap 5:

```html
<div class="container-fluid">
    <div class="container">
        <div class="row">
            <div class="col">
                .
                .
                .
            </div>
            <div class="col">
                .
                .
                .
            </div>
        </div>
        <div class="row">
            <div class="col">
                .
                .
                .
            </div>
            <div class="col">
                .
                .
                .
            </div>
        </div>
    </div>
</div>
```

Importing FontAwesome icons via CDN:

```
<script src="https://kit.fontawesome.com/6c2fc69305.js" crossorigin="anonymous"></script>
```
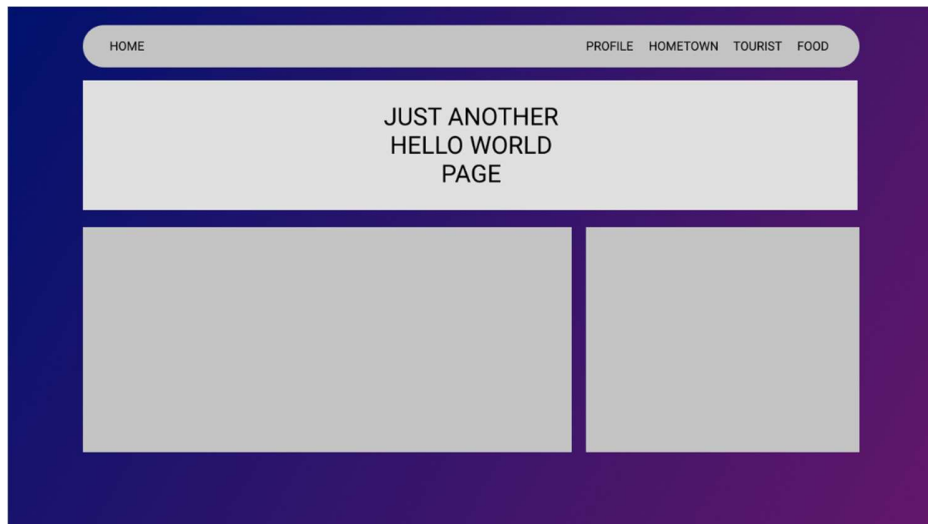
Adding FontAwesome icons to the navigation bar for screen with width below 992px :

```
<a class="col text-center" href="../index.html"><i class="fas fa-home fa-2x"></i></a>
<a class="col text-center" href="../profile/index.html"><i class="fas fa-user fa-2x"></i></a>
<a class="col text-center" href="index.html"><i class="fas fa-house-user fa-2x"></i></a>
<a class="col text-center" href="../tourist/index.html"><i class="fas fa-plane-arrival fa-2x"></i></a>
<a class="col text-center" href="../food/index.html"><i class="fas fa-utensils fa-2x"></i></a>
```

HOMEPAGE

The homepage layouts divided by three. The first row of homepage contains navigation bar. The second row of homepage contains a greetings. The third row contains short detail of this page and this row is divided into two-column with 2: 1 size.
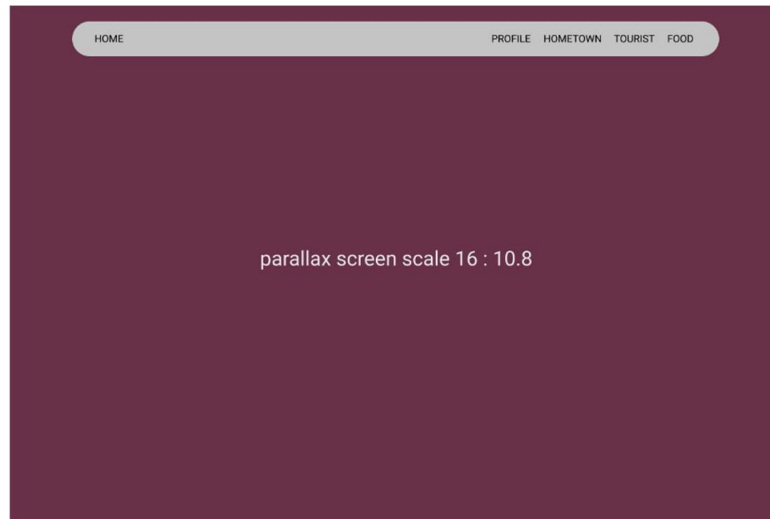

FOOD PAGE

The food page contains two rows which is the navigation bar on the first row and some foods description on the second row.
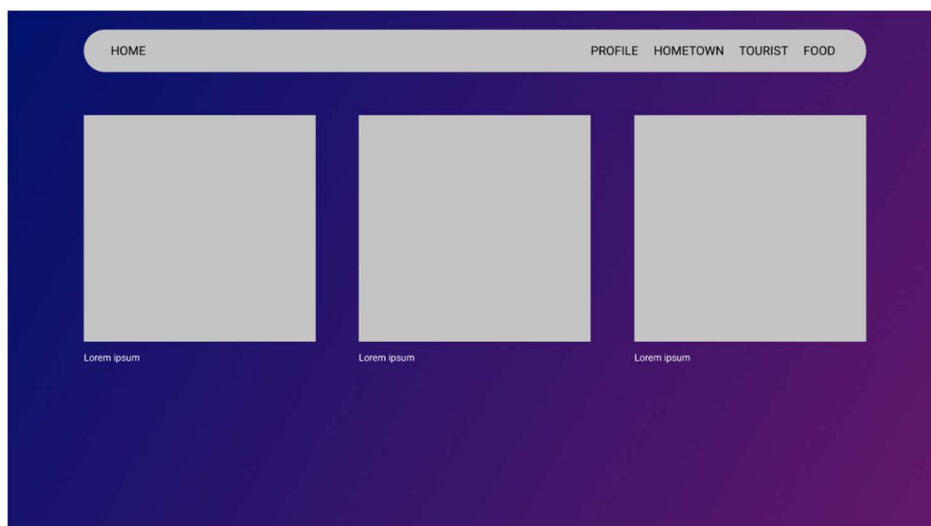
PARALLAX PAGE

The parallax page screen resolution is 16 : 10.8 . Added brief description about the particular topic at the center and below of it.

Javascript program used to create a parallax effect. The idea is to change the position of the picture fragments. The position changed relative to the scroll pixel. If the fragment is close to the viewer's perspective, it would move quickly. If the fragment is far from the viewer's perspective, it would move slowly.

```javascript
let parallax_1 = document.getElementById('parallax-1');
let parallax_2 = document.getElementById('parallax-2');
let parallax_3 = document.getElementById('parallax-3');
let parallax_4 = document.getElementById('parallax-4');
let parallax_5 = document.getElementById('parallax-5');
let parallax_6 = document.getElementById('parallax-6');
let parallax_7 = document.getElementById('parallax-7');

window.addEventListener('scroll', function() {
    let value = window.scrollY;
    parallax_1.style.top = value * 0.22 + 'px';
    parallax_2.style.top = value * 0.21 + 'px';
    parallax_3.style.top = value * 0.20 + 'px';
    parallax_4.style.top = value * 0.19 + 'px';
    parallax_5.style.top = value * 0.12 + 'px';
    parallax_6.style.top = value * 0.07 + 'px';
    parallax_7.style.top = value * 0.30 + 'px';
});
```

The Javascript program fetch the element of the HTML using its ID. The HTML elements need to declare its ID for parallax purpose.
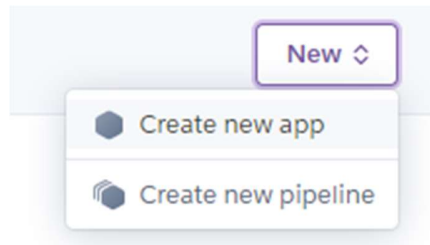
```html
<section class="parallax-container">
  <img id="parallax-0" src="0.png" alt="">
  <img id="parallax-1" src="1.png" alt="">
  <img id="parallax-2" src="2.png" alt="">
  <img id="parallax-3" src="3.png" alt="">
  <img id="parallax-4" src="4.png" alt="">
  <img id="parallax-5" src="5.png" alt="">
  <img id="parallax-6" src="6.png" alt="">
  <img id="parallax-7" src="7.png" alt="">
  <img id="parallax-8" src="8.png" alt="">
</section>
```

To make the picture fragments overlapping, the CSS code must declare the position property with 'absolute'. The z-index property is needed to set the parallax images to be behind the other elements.

```css
.parallax-container {
    position: absolute;
    width: 100%;
    height: 100vh;
    padding: 100px;
    left: 0;
    top: 0;
    z-index: -100;
    background-color: #097960;
}
.parallax-container img {
    position: absolute;
    top: 0;
    left: 0;
    width: 100%;
}
```

DEPLOYING WEB

I used Heroku and github for the server. To deploy on Heroku, first step is to register to its web. Second step is to download the Heroku CLI. Third step is to create new app through the Heroku dashboard.
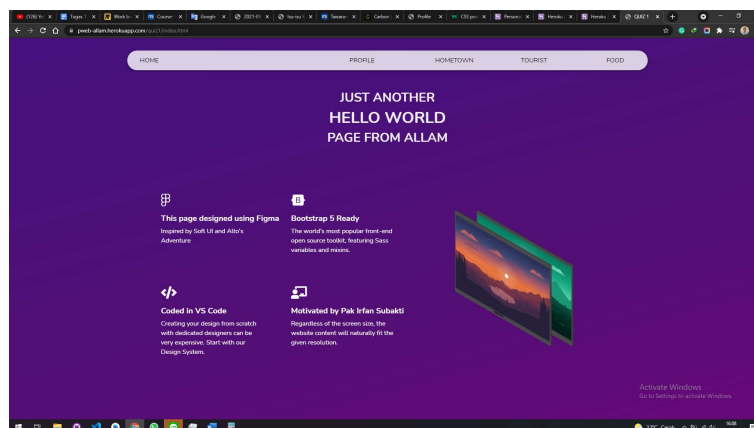

Then, loging in via CLI.

Pushing the files to Heroku git.

Finally, the web is ready.

LINK

Repository : https://github.com/Allam0053/quiz1

Web : https://pweb-allam.herokuapp.com/quiz1/ Or https://allam0053.github.io/quiz1/