PORTFOLIO PROJECT

Submitted by

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1P24MC018

In partial fulfillment of the requirements for the award of the Degree of
MASTER OF COMPUTER APPLICATIONS
From Bharathiar University, Coimbatore.

Under the Internal Supervision of

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SCHOOL OF COMPUTER STUDIES

MASTER OF COMPUTER APPLICATIONS

RVS COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)

Sulur, Coimbatore – 641 402.

Nov 2024

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Register Number: 1P24MC018

Certified *bonafide* original record of work done by **HEMAMALINI.B**

Internal Supervisor   **Director**

Submitted for the project Evaluation and *Viva voce* held on**………………….**

Internal Examiner   **External Examiner**

CONTENT INDEX

Chapter-1

VIDEO INFORMATION

1.1   YouTube video introduction

Description:

In this page, you can see the self-introduction of mine. By

clicking the play button it will redirect to the YouTube page,

so that you can know me more.

Source Code:

HTML:

```
<iframe width="560" height="315"
src="https://www.youtube.com/embed/6HieKPQgupA?si
=YkCGkWt4s0VvULZQ" title="YouTube video player"
frameborder="0" allow="accelerometer; autoplay;
clipboard-write; encrypted-media; gyroscope; picture-in-
picture; web-share" referrerpolicy="strict-origin-
whencross-origin" allowfullscreen></iframe>        <div
id="intr
```

Chapter-2

Website Bio Score

2.1 About Me:

Description:

In this page, there is an image of mine, paragraph about me and also an option called ViewMy resume viewSo, that if any user want to see the resume they can directly download from here.

SOURCE CODE:

HTML:

```
<!--==================== ABOUT ====================-->
<nav class="navbar">
  <ul>
    <li><a href="#">HOME</a></li>
    <li><a href="#about">ABOUT ME</a></li>
    <li><a href="#skills">SKILLS</a></li>
    <li><a href="#PROJECT">PROJECT</a></li>
    <li><a href="#Education">EDUCATION</a></li>
    <li><a href="#contact">CONTACT US</a></li>

  </ul>
```

```html
        </nav>
        <section id="home">
            <div class="main">
                <h1 class="headings">I AM <br> HEMAMALINI</h1>
                <a href="https://github.com/hema959"><i class="fa-brands fa-
github"></i></a>
                <a href=""><i class="fa-brands fa-linkedin"></i></a>
                <div class="btn_main">
                    <a href=""><button>Resume View</button></a>
                </div>
            </div>
        </section>

        <section id="about">
            <h1 class="headings">ABOUT ME</h1>
            <div id="pic">
          <img src="../Image/profile.3.jpg">
          <div id="intro">
            <h2>HEMAMALINI</h2>
            <h1> Frontent Developer</h1>
            <p>"Hi, I'm HEMAMALINI, a fresh front-end developer with a
passion for building beautiful and interactive web experiences.<br>
                I have basic knowledge of HTML, CSS, and JavaScript, and
I'm excited to learn and grow as a developer.<br>
                 I'm a quick learner and always looking to improve my
skills."
            </p><br><br>
            <p>Name: HEMAMALINI.B<br><br>
                DOB: 25.05.2004<br><br>
                Age: 21<br><br>
                Gender: Female<br><br>
                Degree: Master Of Computer
Applications(pursuing)<br><br>
                Gmail: balahema174@gmail.com<br><br>
                Phone no: 8754775932<br><br>
                Address: 160,nanjappa Chettiyar Street,Ondipudhur-16.
                Nationality: Indian
             </p>

            </div>
          </div>
        </div>
```

CSS:
```css
/*=============== ABOUT ===============*/
*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
.navbar{
  display: flex;
  justify-content: center;
  align-items: center;
  background-color: rgba(0,0,0,0.5);
```

```css
    position: sticky;
    top:0;
}
.navbar ul{
    display: flex;
    list-style: none;
    margin: 20px 0px;
}
.navbar ul li {
    font-family: century;
    font-size: 1.1rem;
    font-weight: bold;
}
.fa-github{
    margin-left: -80px;
    margin-top: 60px;
    font-size: 50px;
    color: white;
}
.fa-linkedin{
    position: absolute;
    margin-top: -50px;
    margin-left: 20px;
    font-size: 50px;
    color: white;
}
.navbar ul li a{
text-decoration:none;
color:white;
padding: 8px 25px;
transition: all.5s ease;
}
.navbar ul li a:hover{
    background-color: white;
    color: black;
    box-shadow: 0 0 10px white;
}
#home{
    display: flex;
    flex-direction: column;
    background-color: rgba(0,0,0,0.5);
    height: 840px;
    justify-content: center;
    align-items: center;
    color: white;
}
#home::before{
    content: "";
    position: absolute;
    top:0;
    right: 0;
    background: url('../Image/profile.JPG') no-repeat center center/cover;
    height: 900px;
    width: 100%;
    z-index: -1;
```

```css
    opacity: .8;
}
.main{
    display: flex;
    flex-direction: column;
    align-items: center;
    position: absolute;
    top: 30%;
    left: 10%;
}

/* main */

.btn_main button{
    margin-top: 55%;
    padding: 10px 20px;
    border-radius: 10px;
    border: none;
}
.headings{
    font-family: century;
    font-size: 3rem;
    text-align: center;
    margin: 40px 0px;
}
.btn{
    padding: 10px 35px;
    background-color: transparent;
    border: 1px solid white;
    color: white;
    outline: none;
    transition: .6s ease;
}
.btn:hover{
    cursor: pointer;
    background-color: white;
    color: black;
    box-shadow: 0 0 5px white,0 0 10px rgb(7, 7, 7),0 0 15px white;
    font-weight: bold;
}

#about{
    display: flex;
    flex-direction: column;
    box-sizing: border-box;
    padding: 20px;
    margin-bottom: 50px;
}
#pic{
    display: flex;
}
#pic img{
    width: 550px;
    height: 500px;
}
```

```
#intro{
    display: flex;
    flex-direction: column;
    text-align: justify;
    padding: 10px;
}
#intro h2{
    font-size: 2rem;
    margin-bottom: 20px;
}
```

2.2 Contact Page :

Description:

The above displayed figure is a contact page in the website. If the user wants to contact me, they can fill the form with their valid details. Here I imported library called Email-js to send messages.

Source code:

HTML:

```html
<!--==================== CONTACT
====================-->
<div id="contact"></div>
        <div class="contact">
            <h1>Contact Us</h1>
            <iframe src="../Coding/form.html" width="100%"
height="600px" frameborder="0"></iframe>
        </div>
<body>
  <div class="mb-3" id="contact">
    <label for="exampleFormControlInput1" class="form-
label">Name</label>
    <input type="email" class="form-control"
id="exampleFormControlInput1" placeholder="Your name">
  </div>
  <div class="mb-3" id="contact1">
    <label for="exampleFormControlInput1" class="form-label">Email
address</label>
    <input type="email" class="form-control"
id="exampleFormControlInput1" placeholder="name@example.com">
  </div>
  <div class="mb-3" id="contact2">
    <label for="exampleFormControlInput1" class="form-
label">Subject</label>
    <input type="email" class="form-control"
id="exampleFormControlInput1" placeholder="Subject">
  </div>
  <div class="mb-3" id="contact3">
    <label for="exampleFormControlTextarea1" class="form-
label">Example textarea</label> <br>
    <textarea  id="exampleFormControlTextarea1" rows="3"
cols="65"></textarea>
  </div>
  <div class="col-12" id="form_btn">
    <button class="btn btn-primary" type="submit">Submit
form</button>
  </div>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundl
e.min.js" integrity="sha384-
kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7H
AuoJl+0I4" crossorigin="anonymous"></script>
</body>
```

CSS :

```
/*=============== CONTACT ===============*/

.CONTACT{
  .contact{
   margin-top: 7%;
   margin-left: 30%;
}
iframe{
   margin-top: 5%;
}
#form_btn button{
   background-color: cyan;
   color: black;
}
#contact,#contact1,#contact2 input {
   width: 500px;
}
#contact3 textarea{
   border: 2px solid #ccc;
}
```
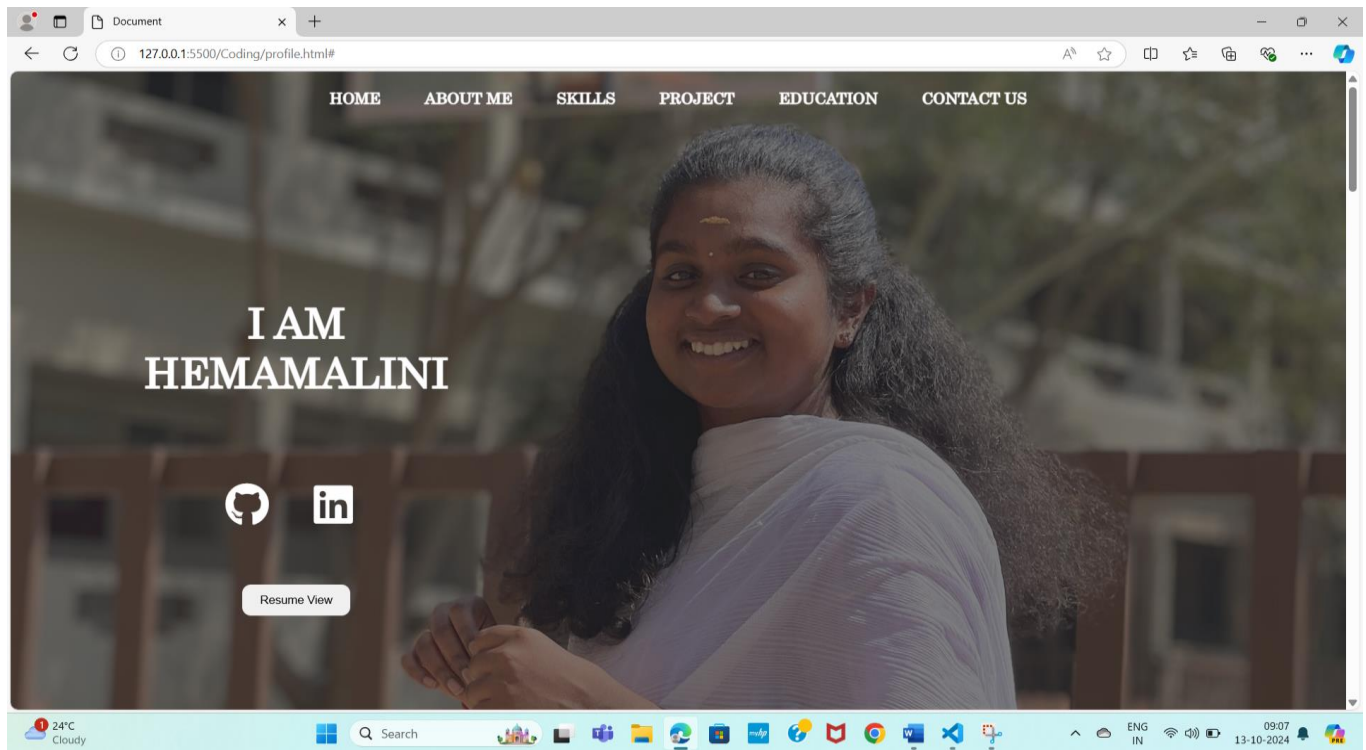
CHAPTER-3
PAGE&NAVIGATION

3.1 Landing Page:

Figure 3.1.1

Description:

The above Figure 3.1.1 are the screenshot of Homepage in a desktop view. And this is a home screen of the portfolio which shows the landing page and navigation bar. which shownas Figure 3.1.1.

Source Code

HTML

```html
<nav class="navbar">
    <ul>
        <li><a href="#">HOME</a></li>
        <li><a href="#about">ABOUT ME</a></li>
        <li><a href="#skills">SKILLS</a></li>
        <li><a href="#PROJECT">PROJECT</a></li>
        <li><a href="#Education">EDUCATION</a></li>
        <li><a href="#contact">CONTACT US</a></li>

    </ul>
    </nav>
    <section id="home">
        <div class="main">
            <h1 class="headings">I AM <br>
HEMAMALINI</h1>
            <a href="https://github.com/hema959"><i
class="fa-brands fa-github"></i></a>
            <a href=""><i class="fa-brands fa-
linkedin"></i></a>
            <div class="btn_main">
                <a href=""><button>Resume
View</button></a>
            </div>
        </div>
    </section>
```

```css
/*=============== HOME ===============*/

*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}
.navbar{
  display: flex;
  justify-content: center;
  align-items: center;
```

```css
    background-color: rgba(0,0,0,0.5);
    position: sticky;
    top:0;
}
.navbar ul{
    display: flex;
    list-style: none;
    margin: 20px 0px;
}
.navbar ul li {
    font-family: century;
    font-size: 1.1rem;
    font-weight: bold;
}
.fa-github{
    margin-left: -80px;
    margin-top: 60px;
    font-size: 50px;
    color: white;
}
.fa-linkedin{
    position: absolute;
    margin-top: -50px;
    margin-left: 20px;
    font-size: 50px;
    color: white;
}
.navbar ul li a{
text-decoration:none;
color:white;
padding: 8px 25px;
transition: all.5s ease;
}
.navbar ul li a:hover{
    background-color: white;
    color: black;
    box-shadow: 0 0 10px white;
}
#home{
    display: flex;
    flex-direction: column;
    background-color: rgba(0,0,0,0.5);
```

```css
    height: 840px;
    justify-content: center;
    align-items: center;
    color: white;
}
#home::before{
    content: "";
    position: absolute;
    top:0;
    right: 0;
    background: url('../Image/profile.JPG') no-repeat center center/cover;
    height: 900px;
    width: 100%;
    z-index: -1;
    opacity: .8;
}
.main{
    display: flex;
    flex-direction: column;
    align-items: center;
    position: absolute;
    top: 30%;
    left: 10%;
}

/* main */

.btn_main button{
    margin-top: 55%;
    padding: 10px 20px;
    border-radius: 10px;
    border: none;
}
.headings{
    font-family: century;
    font-size: 3rem;
    text-align: center;
    margin: 40px 0px;
}
.btn{
    padding: 10px 35px;
    background-color: transparent;
```

```
    border: 1px solid white;
    color: white;
    outline: none;
    transition: .6s ease;
}
.btn:hover{
    cursor: pointer;
    background-color: white;
    color: black;
    box-shadow: 0 0 5px white,0 0 10px rgb(7, 7, 7),0 0 15px white;
    font-weight: bold;
}
```

Mobile view sample for one background image:
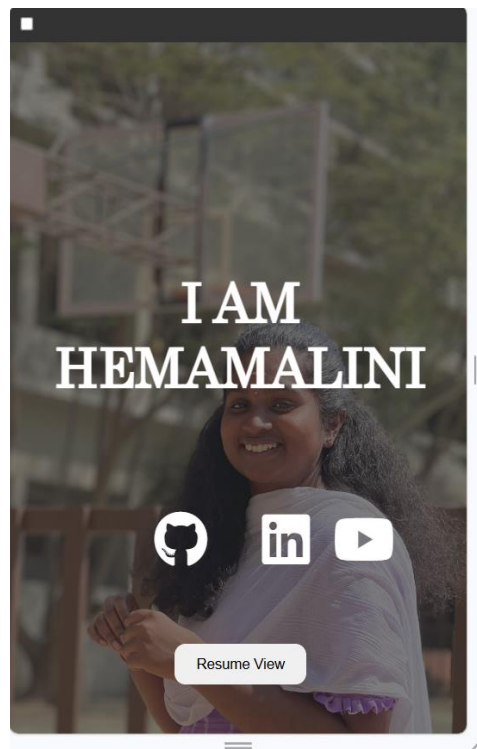
Figure 3.1.2

Description:

The above Figure 3.1.2 are the screenshot of Homepage
in a Mobile view. And this is a home screen of the
portfolio which shows the landing page and navigation
bar ,which shownas

3.2 Project Page
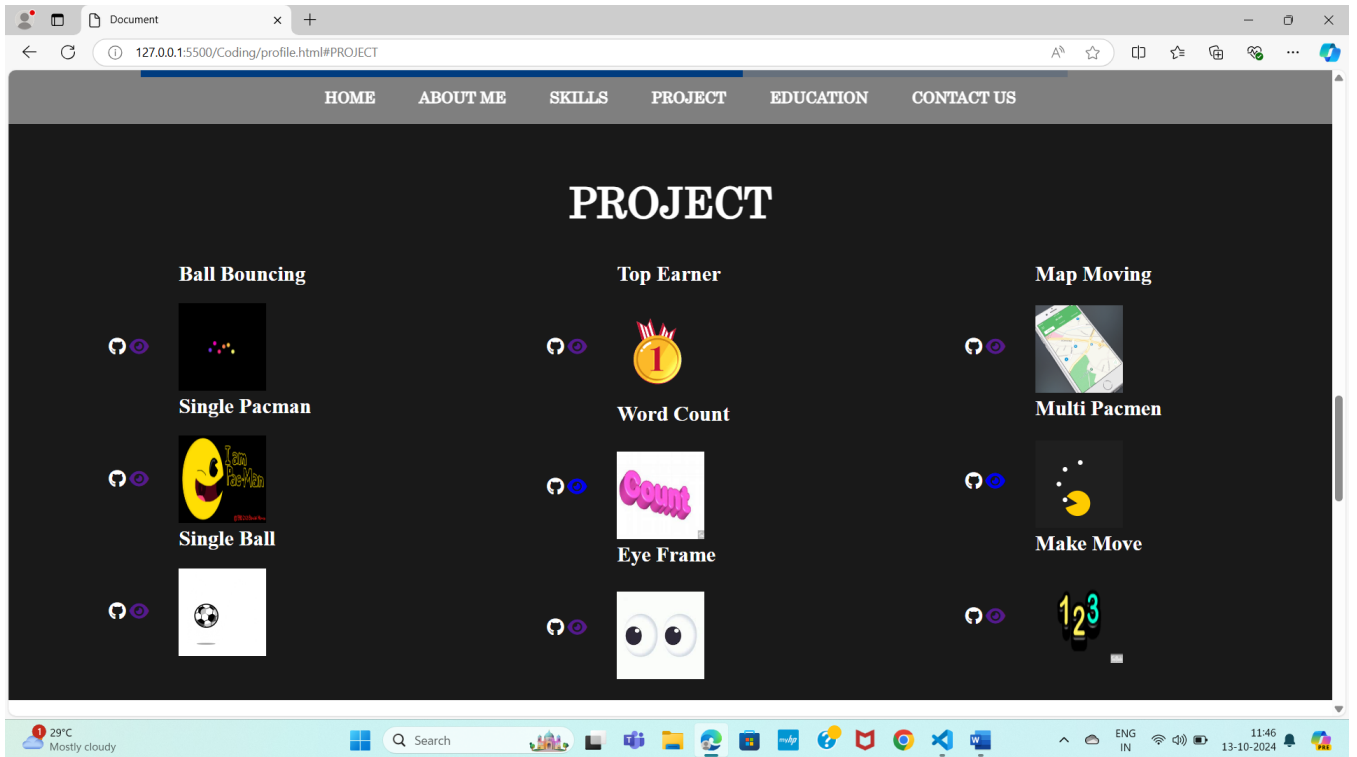
SOURCE CODE:

HTML:

```
<!-- ==================== PROJECTS
==================== -->
  <section id="PROJECT">
    <h1 class="headings">PROJECT</h1>
    <div class="main-text scroll-scale">  </div>
      <div class="project">
        <div class="project_page_01">
          <div class="project01">
            <h2>Ball Bouncing</h2>
            <div class="project_btn01">
              <a href="https://github.com/hema959/bouncing-ball-
" target="_blank"><i class="fa-brands fa-github"></i></a>
              <a href="https://hema959.github.io/bouncing-ball-/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
            </div>
            <img src="../Image/bouncing ball.jpg" alt="">
            <div class="contact01">

            </div>
          </div>
        </div>
        <div class="project02">
```

```html
                    <h2>Single Pacman</h2>
                    <div class="project_btn02">
                        <a
href="https://github.com/hema959/pacman"  target="_blank"><i
class="fa-brands fa-github"></i></a>
                        <a href="https://hema959.github.io/pacman/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
                    </div>
                    <img src="../Image/packman.jpg" alt="">
                    <div class="contact01">

                    </div>
                </div>
                <div class="project03">
                    <h2>Single Ball</h2>
                    <div class="project_btn03">
                        <a href= "https://github.com/hema959/single-
ball"  target="_blank"><i class="fa-brands fa-github"></i></a>
                        <a href= "https://hema959.github.io/single-ball/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
                    </div>
                    <img src="../Image/single ball moving.gif" alt="">
                    <div class="contact01">

                    </div>
                </div>
            </div>
            <div class="project02">
                <div class="project04">
                    <h2>Top Earner </h2>
                    <div class="project_btn04">
                        <a href="https://github.com/hema959/Top-
Earner"  target="_blank"><i class="fa-brands fa-github"></i></a>
                        <a href=" https://hema959.github.io/Top-Earner/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
                    </div>
                    <img src="../Image/Top_earner_pro.gif" alt="">
                    <div class="contact01">

                    </div>
                </div>
                <div class="project05">
                    <h2>Word Count</h2>
                    <div class="project_btn05">
                        <a href="https://github.com/hema959/index-
word"  target="_blank"><i class="fa-brands fa-github"></i></a>
                        <a href="https://hema959.github.io/index-word/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
                    </div>
                    <img src="../Image/Word_count_pro.jpg" alt="">
                    <div class="contact01">

                    </div>
```

```
            </div>
            <div class="project06">
                <h2>Eye Frame</h2>
                <div class="project_btn06">
                    <a href="https://github.com/hema959/eye-
ball" target="_blank"><i class="fa-brands fa-github"></i></a>
                    <a href="https://hema959.github.io/eye-ball/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
                </div>
                <img src="../Image/Eye_frame_pro.jpg" alt="">
                <div class="contact01">

                </div>
            </div>
        </div>
        <div class="project03">
            <div class="project07">
                <h2>Map Moving</h2>
                <div class="project_btn07">
                    <a
href="https://github.com/hema959/map" target="_blank"><i class="fa-
brands fa-github"></i></a>
                    <a href= "
https://hema959.github.io/map/"target="_blank"><i class="fa-solid fa-
eye"></i></a>
                </div>
                <img src="../Image/gif_map.gif" alt="">
                <div class="contact01">

                </div>
            </div>
            <div class="project08">
                <div class="project_btn08">
                    <h2>Multi Pacmen</h2>
                    <a
href="https://github.com/hema959/multipacmen1" target="_blank"><i
class="fa-brands fa-github"></i></a>
                    <a href=" https://hema959.github.io/multipacmen1/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
                </div>
                <img src="../Image/multi packmen.gif" alt="">
                <div class="contact01">

                </div>
            </div>
            <div class="project09">
                <div class="project_btn09">
                    <h2>Make Move</h2>
                    <a
href="https://github.com/hema959/project9" target="_blank"><i
class="fa-brands fa-github"></i></a>
                    <a href="https://hema959.github.io/project9/"
target="_blank"><i class="fa-solid fa-eye"></i></a>
```

```
                </div>
                <img src="../Image/numbers 2.gif" alt="">
                <div class="contact01">

                </div>
            </div>
          </div>
        </div>
</section>


    </section>
```

CSS:
```
/*=============== PROJECTS ===============*/
.project{
   display: flex;
   justify-content: space-around;
   margin-top: 2%;
}
.project_page_01 i{


}
.project i{
   font-size: 20px;

}
#PROJECT{

   background-color: rgba(0,0,0,0.9);
   color: white;
   align-items: center;
   padding: 20px;

}
#PROJECT img{
   width: 100px;
   height: 100px;
   margin-top: -40%;
}

/* end project */
.pro-box{
   width: 500px;
   height: 200px;
}
.container{
   height: 700px;
   display: flex;
   flex-direction: row;
   margin-left: 20%;
}
.project-gallery{
```

```
        display: flex;
        flex-wrap: wrap;
        justify-content: space-around;
        box-sizing: border-box;
    }
    .gallery img{
        width: 400px;
        height: 240px;
        margin: 10px;

    }
```

3.3
NAVIGATION BAR&
DESKTOP VIEW:

Figure-3.3.1

Description:

The Figure-3.3.1 are the samples of navigation bar in both desktop

View.This was a user-friendlymethod only, so the user can easily use the

features.

source code:

HTML:

```
    <!--===================== HEADER
    =====================-->
<nav class="navbar">

    <input type="checkbox" id="check">

        <label for="check" class="checkbtn">

            <i class="fas fa-bars" style="font-size: 24px;"></i>

        </label>

    <ul>

        <li><a href="#">HOME</a></li>

        <li><a href="#about">ABOUT ME</a></li>

        <li><a href="#skills">SKILLS</a></li>

        <li><a href="#PROJECT">PROJECT</a></li>
```

```html
      <li><a href="#Education">EDUCATION</a></li>

      <li><a href="#contact">CONTACT US</a></li>


  </ul>

  </nav>
```

CSS:

```css
/*=============== HEADER & NAV ===============*/
.navbar {
    position: fixed;
    top: 0;
    width: 100%;
    background-color: #333;
    color: #0033a0;
    z-index: 1000;
    display: flex;
    justify-content: space-
  between;
    align-items: center;
    padding: 10px 10px;
}

.navbar ul {
    display: flex;
    list-style: none;
}

.navbar ul li {
    margin: 0 10px;
}

.navbar ul li a {
    color: white;
    text-decoration: none;
    font-size: 18px;
}
```

Mobile View :
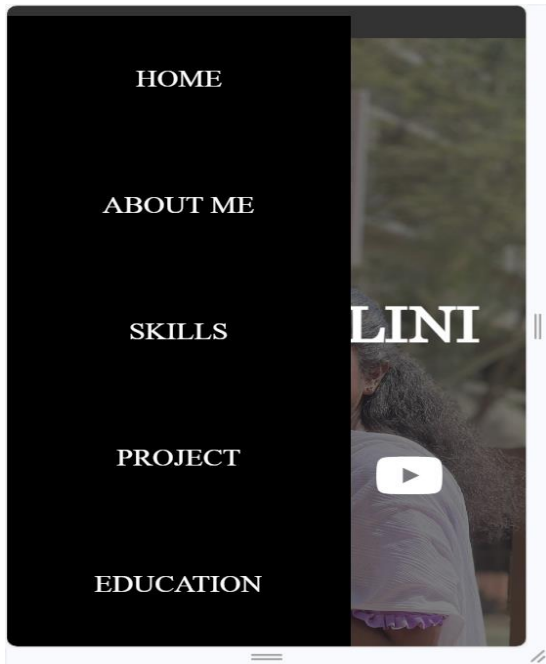
Figure -3.3.1 (mobile view)

Description:

The figure-3.3.1 are the samples of navigation bar in both mobile
view. This was a user-friendly method only, so the user can easily
use the features.

Features:

There are many styles are added. Whenever the user
move lists to the navigation bar it will hover with some
effect. And also the navigation bar willbe stable in the
same position, even we switch to any other pages.

3.4. Skills:
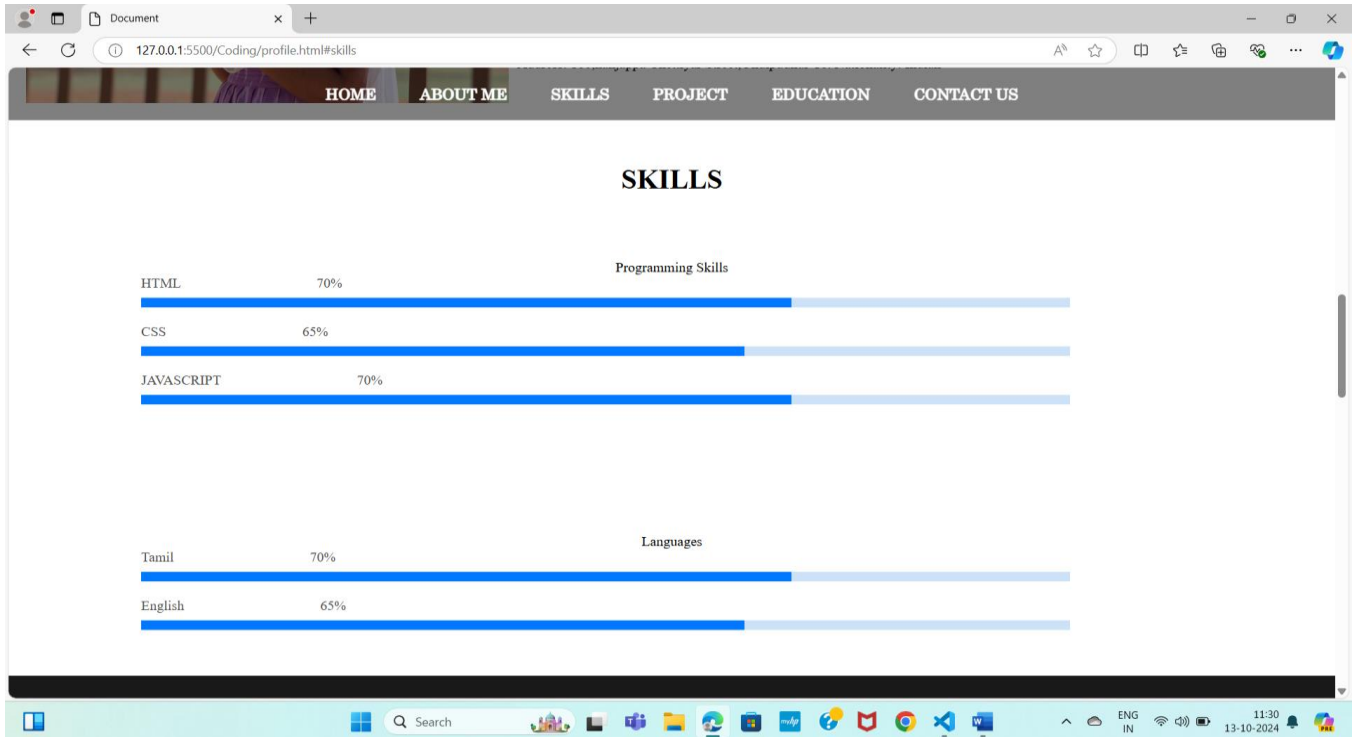
Description:

The above figures are skill page, which contain a subdivision named skills and expertise,education and training, soft skills and self-introduction video. Basically, it is an animation, when the user load the page and click the specified box it will toggle with border with orange color.

Source Code:

HTML:

```html
<!--==================== Skills ====================-->
    <div class="skills">
      <h1 style="text-align: center;">SKILLS</h1>
      <div id="skill" class="skill-mf">
        <center><p class="title-s">Programming Skills</p></center>
        <span>HTML</span> <span class="pull-right">70%</span>
        <div class="progress">
        <div class="progress-bar" role="progressbar" style="width: 70%;" aria-valuenow="85" aria-valuemin="0"
aria-valuemax="100"></div>
        </div>
        <span>CSS</span> <span class="pull-right">65%</span>
        <div class="progress">
        <div class="progress-bar" role="progressbar" style="width: 65%" aria-valuenow="75" aria-valuemin="0"
aria-valuemax="100"></div>
        </div>
        <span>JAVASCRIPT</span> <span class="pull-right">70%</span>
        <div class="progress">
        <div class="progress-bar" role="progressbar" style="width: 70%" aria-valuenow="90" aria-valuemin="0"
aria-valuemax="100"></div>
        </div>
```

```html
    </div>
    <div class="lang">
       <center><p class="title-s">Languages</p></center>
       <span>Tamil</span> <span class="pull-right">70%</span>
       <div class="progress">
       <div class="progress-bar" role="progressbar" style="width: 70%;" aria-valuenow="85" aria-valuemin="0" aria-
valuemax="100"></div>
       </div>
       <span>English</span> <span class="pull-right">65%</span>
       <div class="progress">
       <div class="progress-bar" role="progressbar" style="width: 65%" aria-valuenow="75" aria-valuemin="0" aria-
valuemax="100"></div>
       </div>
    </div>
   </div>
```

CSS:

```css
/*=============== Skills ===============*/
. .SKILLS{


.skills{

   width: 100%;

   height: 600px;

}
.skill-mf{

   margin-top: 5%;

}
.skill-mf span {

   color: #4e4e4e;

  /* padding: 10px; */

   margin-left: 10%;


 }



 .skill-mf .progress {

  background-color: #cde1f8;

  margin: 0.5rem 0 1.2rem 0;

  border-radius: 0;

  width: 70%;

  height: 0.7rem;

  margin-left: 10%;


 }
```

```css
.skill-mf .progress .progress-bar {
  height: 0.7rem;
  background-color: #0078ff;
}
.lang{
  margin-top: 10%;
}
.lang span {
  color: #4e4e4e;
  margin-left: 10%;
}
.lang .progress{
  background-color: #cde1f8;
  margin: 0.5rem 0 1.2rem 0;
  border-radius: 0;
  width: 70%;
  height: 0.7rem;
  margin-left: 10%;
}
.lang .progress .progress-bar{
  height: 0.7rem;
  background-color: #0078ff;
```

CHAPTER-4

Style link:

<!--=============== FAVICON ===============-->

<link rel="shortcut icon" href="../Image/Untitled design (1).png">

<!--=============== REMIXICONS ===============-->

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.6.0/css/all.min.css"
integrity="sha512-
Kc323vGBEqzTmouAECnVceyQqyqdsSiqLQISBL29aUW4U/M7pSPA/gEUZQqv1cwx4OnYxTxve5UMg5GT6L4
JJg==" crossorigin="anonymous" referrerpolicy="no-referrer" />

<!--=============== CSS ===============-->

<link rel="stylesheet" href="../Css/profile.css">

Chapter 5:

Website include the following Information

Project-1

Title: BOUNCING BALL

Link: "https://hema959.github.io/bouncing-ball-/"

Project Description:

Elevate the animation by enabling user input for modifying the ball's movement, incorporating elementslike keyboard and mouse controls, as well as introducing obstacles or ta rgets to enhance interactivity.

Project-2

Title: SINGLE BALL

Link: https://hema959.github.io/single-ball/

Project Description:

This HTML page displays a continuous bouncing red ball animation within a rectangular area controlled by JavaScript using the setInterval function with a 500- millisecond interval.

PROJECT-3

Title: SINGLE PAC-MAN

Link: https://hema959.github.io/pacman/

Project Description:

This HTML page features a Pac-Man animation moving horizontally within a container, controlled by JavaScript for direction, mouth animation, and boundary

reversal, with a continuous animation loop triggered by setInterval every 100 milliseconds.

PROJECT-4

Title: TOP EARNER

Link: https://hema959.github.io/Top-Earner/

Project Description:

This JavaScript program retrieves and displays information about the
top five earning employeesin Boston, providing key details for each employee.

PROJECT-5

Title: WORD COUNT

Link: https://hema959.github.io/index-word/

Project Description:

This HTML document displays the top 5 most frequently occurring words from
a providedparagraph after removing punctuation and converting all text to lowercase.

PROJECT-6

Title: MULTI PACKMAN

Link: https://hema959.github.io/multipacmen/

Project Description:

The HTML document creates a basic Pac-Man game with randomly generated Pac-Man
characters that bounce off the container's boundaries and change mouth states while moving.

PROJECT-7

Title: MOVING EYES

Link: https://hema959.github.io/eye-ball/

Project Description:

This HTML document creates a simple interactive face with moving eyes that follow the user's mouse cursor. The face consists of a yellow circle with two eyes, and the eyes' black pupils follow the mouse movement.

PROJECT-8

Title: MAP

Link: https://hema959.github.io/map/

Project Description:

This HTML document displays a map using Mapbox and a button to animate a marker's movement along predefined bus stops between Gandhipuram and Sulur

PROJECT-9

Title: TOWERS-OFF-HANOI

Link: https://hema959.github.io/tower-of-hanoi/

Project Description:

This project is a dynamic and interactive visualization of the Tower of Hanoi puzzle using HTML, CSS, and JavaScript. Users can input the number of disks and see the puzzle being solved step by step.

Chapter-6:

Bootstrap :

6.1 Uses of Bootstrap:

Description:

I have used bootstrap in this website as a separate file. Which was a built in CSS file, so wecan use it to reduce our time and also it carries a (N) number of designs. So, I had linked them to the code in HTML.

Source Code

```html
<div id="contact"></div>
        <div class="contact">
            <h1>Contact Us</h1>
            <iframe src="../Coding/form.html" width="100%" height="600px" frameborder="0"></iframe>
        </div>
<body>

 <div class="mb-3" id="contact">
     <label for="exampleFormControlInput1" class="form-label">Name</label>
     <input type="email" class="form-control" id="exampleFormControlInput1" placeholder="Your name">
    </div>
   <div class="mb-3" id="contact1">
     <label for="exampleFormControlInput1" class="form-label">Email address</label>
     <input type="email" class="form-control" id="exampleFormControlInput1" placeholder="name@example.com">
    </div>
   <div class="mb-3" id="contact2">
     <label for="exampleFormControlInput1" class="form-label">Subject</label>
     <input type="email" class="form-control" id="exampleFormControlInput1" placeholder="Subject">
    </div>
    <div class="mb-3" id="contact3">
     <label for="exampleFormControlTextarea1" class="form-label">Example textarea</label> <br>
     <textarea  id="exampleFormControlTextarea1" rows="3" cols="65"></textarea>
    </div>
    <div class="col-12" id="form_btn">
     <button class="btn btn-primary" type="submit">Submit form</button>
    </div>
   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js" integrity="sha384-kenU1KFdBIe4zVF0s0G1M5b4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4"
crossorigin="anonymous"></script>
 </body>
CSS :
.CONTACT{
  .contact{
  margin-top: 7%;
  margin-left: 30%;
}
iframe{
  margin-top: 5%;
}
#form_btn button{
  background-color: cyan;
  color: black;
}
#contact,#contact1,#contact2 input {
```

```css
    width: 500px;
}
#contact3 textarea{
    border: 2px solid #ccc;
}
```

Chapter 7:

PROJECT README

🔗 Bouncing Balls Simulation

A simple web project that simulates multiple bouncing balls inside a container using HTML, CSS, and JavaScript. The balls move with random initial velocities and interact with the container's walls, bouncing off them while being affected by gravity.

Demo

You can view a live demo of the project here.
(Replace the `#` with the URL to your hosted project, if available.)

Features

- Multiple balls with random initial velocities and colors.
- Simulates gravity for realistic ball movement.
- Balls bounce off the container walls.
- Smooth animation using `requestAnimationFrame`.
- Adjustable gravity and bounce behavior.

Bouncing Ball Animation

This is a simple web project that demonstrates a ball bouncing within a `600x600` container using HTML, CSS, and JavaScript.

Demo

You can view a live demo of the project here.

Features

- A ball that moves and bounces within a boundary.
- Dynamic movement of the ball controlled by JavaScript.
- Adjustable speed and smooth animations.
- Customizable ball colors and styles with CSS.

Pac-Man Animation

This project is a simple Pac-Man animation where Pac-Man moves back and forth across the screen, bouncing off the edges, while switching between open and closed mouth images. The animation is implemented using HTML, CSS, and JavaScript.

Demo

You can view a live demo of the project here.
(Replace the `#` with the URL to your hosted project, if available.)

Features

- Pac-Man character that animates between open and closed mouth images.
- Smooth movement across the screen.
- Bounces off screen edges and reverses direction.
- Dynamic switching between right-facing and left-facing images depending on the direction of movement.
- Game starts when the "Start" button is clicked.

Boston Top Earners

This project processes a dataset of individuals from Boston to identify and display the top earners based on their salaries. It is implemented using JavaScript and utilizes the HTML DOM for displaying the results dynamically.

Demo

You can view a live demo of the project here.
(Replace the `#` with the URL to your hosted project, if available.)

Features

- Filters individuals with salaries greater than $200,000.
- Displays the names and salaries of the top earners.
- Sorts the top earners by salary in descending order.
- Dynamically updates the HTML content to display results.

Most Common Words Finder

This project analyzes a given text to identify the most frequently occurring words, ignoring punctuation and case sensitivity. The results are dynamically displayed on a web page.

Demo

You can view a live demo of the project here.
(Replace the # with the URL to your hosted project, if available.)

Features

- Removes punctuation and handles case sensitivity.
- Counts the frequency of each word in the provided text.
- Displays the most common words and their counts.
- Dynamically updates the HTML content to present results.

PacMan Bounce

This project is a simple interactive web application where users can add "PacMan" images that move around the screen and bounce off the edges. The application demonstrates basic HTML, CSS, and JavaScript functionalities, including DOM manipulation and animation.

Demo

You can view a live demo of the project here.
(Replace the # with the URL to your hosted project, if available.)

Features

- Add multiple "PacMan" images by clicking the "Add PacMan" button.
- Each image moves and bounces off the window edges.
- Simulates gravity to create a realistic bouncing effect.
- Responsive design that adjusts based on window size.

Eyeball Follower

This project is an interactive web application that simulates eyeballs following the mouse cursor. The background features an eerie image to enhance the spooky effect. The application demonstrates the use of HTML, CSS, and JavaScript to create a fun and engaging user experience.

Demo

You can view a live demo of the project [here](#).
(Replace the `#` with the URL to your hosted project, if available.)

Features

- Two eyeballs that track the mouse movements in real-time.
- A spooky background image that enhances the overall effect.
- Responsive design that works across various screen sizes.

Mapbox Marker Movement

This project utilizes Mapbox GL JS to create an interactive map application that demonstrates moving a marker between predefined coordinates. The application showcases the journey from Sulur to Singanallur.

Demo

You can view a live demo of the project [here](#).
(Replace the `#` with the URL to your hosted project, if available.)

Features

- Interactive Map displaying the route between Sulur and Singanallur.
- A marker that moves smoothly between predefined latitude and longitude coordinates.
- Button to start the marker movement.

Tower of Hanoi Visualization

This project is a dynamic and interactive visualization of the Tower of Hanoi puzzle using HTML, CSS, and JavaScript. Users can input the number of disks and see the puzzle being solved step by step.

Table of Contents

Overview

The **Tower of Hanoi** is a classic puzzle where you must move a set of disks from one peg to another, with the help of an auxiliary peg. The puzzle follows specific rules regarding the movement of disks.

This project allows users to visualize how the Tower of Hanoi puzzle is solved, with a dynamic interface that updates after every move.

Features

- Set the number of disks dynamically using an input field.
- Visualize the step-by-step solution of the puzzle.
- Fully responsive and styled using CSS.
- Recursive algorithm implemented in JavaScript to solve the puzzle.

Description:

The above figures are the screenshot of project README files (Description, steps to run, futureimprovement) in a desktop view.

Chapter 8

File Structure

8.1 GitHub File Structure :

hema959 Update README.md ✓		c14944a · 1 hour ago	🕐 4 Commits
📄 README.md	Update README.md		1 hour ago
📄 index.html	Add files via upload		last week

Figure 8.1.1

hema959 Create README.md ✓		c9f3cec · 1 hour ago	🕐 4 Commits
📁 .github/workflows	Create static.yml		4 days ago
📄 README.md	Create README.md		1 hour ago
📄 index.html	Update and rename index (1).html to index.html		4 days ago

Figure 8.1.2

hema959 Create README.md ✓		00a85cd · 1 hour ago	🕐 4 Commits
📁 .github/workflows	Create static.yml		last week
📄 PacMan1.png	Add files via upload		last week
📄 PacMan2.png	Add files via upload		last week
📄 PacMan3.png	Add files via upload		last week
📄 PacMan4.png	Add files via upload		last week
📄 README.md	Create README.md		1 hour ago
📄 index.html	Update and rename coding_assignment_3.1.html to index.ht...		last week

Figure 8.1.3

Figure 8.1.4

Figure 8.1.5

Figure 8.1.6

Figure 8.1.7

Figure 8.1.8

Figure 8.1.9

Description:

This above Figures 8.1.1, 8.1.2, 8.1.3, 8.1.4, 8.1.5 , 8.1.6, 8.1.7 , 8.1.8 , 8.1.9 shows GitHub File Structure in desktop.