

UNIVERSITY OF WESTMINSTER#

INOFORMATICS INSTITUTE OF TECHNOLOGY

BSc (Hons) Computer Science

Advanced Client-side Web Development 5COSC026W

Module Leader: Mrs. Theja Perera

Coursework: Portfolio

INDIVIDUAL COURSEWORK

Date of Submission: 11/05/2024

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Appendix A: Code

Home.html / index.html

<This is in text format>

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Pasindu Dilshan</title>
    <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css'</pre>
rel='stylesheet'>
    <link rel="stylesheet" href="Style.css">
</head>
<body>
    <header class="header">
        <a href="index.html" class="logo"> alwaysPasindu.</a>
        <i class='bx bx-menu' id="menu-icon"></i></i>
            <nav class="navbar">
                <a href="index.html" class="active">HOME</a>
                <a href="About.html">ABOUT</a>
                <a href="Blog.html">BLOG</a>
                <a href="Contact.html">CONTACT</a>
            </nav>
    </header>
<br><br><
    <section class="home" id="home">
        <div class="home-content">
            <h3>Hello, It's me! </h3>
            <h1>Pasindu Dilshan</h1>
```

```
<h3>And I'm a <span class="multiple-text">Full-Stack
Developer</span></h3>
            Undergraduate Computer Science Student, Tech enthusiast,
Freelancer, YouTuber, seeking Software Engineering internship, skilled in full-
stack development and version controlling.
            <div class="social-media">
                <!-- <a href="#"><i class='bx bxl-facebook' ></i></a> -->
                <a href="https://www.linkedin.com/in/pasindu-dilshan-929865269/"</pre>
target=" blank"><i class='bx bxl-linkedin' ></i></a>
                <a href="https://github.com/alwaysPasindu"><i class='bx bxl-</pre>
github' ></i></a>
href="https://www.instagram.com/always.pasindu?igsh=MWoweTJkcmR1bm8xYQ%3D%3D&utm
source=qr" target="_blank"><i class='bx bxl-instagram' ></i></a>
                <a href="https://www.youtube.com/@netforgeSolutions"</pre>
target=" blank"><i class='bx bxl-youtube' ></i></a>
            </div>
                <a href="ATS-Friendly-CV.pdf" class="btn" download> Download
CV</a>
        </div>
        <div class="home-img">
            <img src="images/XN.svg" alt="userimg">
        </div>
    </section>
        <div class="footer-text">
            Copyright © 2024 by <a
All Right Reserved.
        </div>
    </footer> -->
    <script>
        let menuIcon = document.querySelector('#menu-icon');
        let navbar = document.querySelector('.navbar');
        menuIcon.onclick = () => {
            menuIcon.classList.toggle('bx-x');
            navbar.classList.toggle('active');
            };
    </script>
```

```
</body>
</html>
```

About.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Pasindu Dilshan</title>
    <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css'</pre>
rel='stylesheet'>
    <link rel="stylesheet" href="Style.css">
</head>
<body>
    <header class="header">
        <a href="index.html" class="logo"> alwaysPasindu.</a>
        <i class='bx bx-menu' id="menu-icon"></i></i></or>
            <nav class="navbar">
                <a href="index.html" >HOME</a>
                <a href="About.html" class="active">ABOUT</a>
                <a href="Blog.html">BLOG</a>
                <a href="Contact.html">CONTACT</a>
            </nav>
    </header>
<br>
    <section class="about" id="about">
        <div class="about-img">
            <img src="images/XN.svg" alt="ownerimg">
        </div>
        <div class="about-content">
            <h2 class="heading">About <span>Me</span></h2>
            <h3>Full-Stack Developer</h3>
                I'm a second-year BSc. Computer Science student with a passion
for technology and programming. With experience as a tech solution provider and a
YouTuber, I excel in full-stack development, version control, and creative
problem-solving. I'm seeking a Software Engineering internship to further develop
my skills and gain valuable industry experience.
```

```
</div>
    </section>
   <footer class="footer">
        <div class="footer-text">
           Copyright © 2024 by <a
href="https://linktr.ee/always.pasindu" id="tree"><i>Pasindu Dilshan </i></a>|
All Right Reserved.
       </div>
   </footer> -->
    <script>
       let menuIcon = document.querySelector('#menu-icon');
       let navbar = document.querySelector('.navbar');
       menuIcon.onclick = () => {
           menuIcon.classList.toggle('bx-x');
           navbar.classList.toggle('active');
           };
</body>
</html>
```

Blog.html

```
<header class="header">
        <a href="index.html" class="logo"> alwaysPasindu.</a>
        <i class='bx bx-menu' id="menu-icon"></i></i></or>
            <nav class="navbar">
                <a href="index.html">HOME</a>
                <a href="About.html">ABOUT</a>
                <a href="Blog.html" class="active">BLOG</a>
                <a href="Contact.html">CONTACT</a>
            </nav>
    </header>
    <br>
    <section class="portfolio" id="portfolio">
        <h2 class="heading"> Latest <span>Projects</span></h2>
        <div class="portfolio-container">
            <div class="portfolio-box">
                <img src="images/portfolio11.png" alt="">
                <div class="portfolio-layer">
                    <h4>Life Below Water Website</h4>
                    University Group Project using HTML, CSS and JS
href="https://github.com/alwaysPasindu/Life Below Water Website UNSDG"
target=" blank"><i class='bx bx-link-external' ></i></a>
                </div>
            </div>
            <div class="portfolio-box">
                <img src="images/portfolio2.png" alt="">
                <div class="portfolio-layer">
                    <h4>Student Activity Management System</h4>
                    <!-- <p>Activity management system for handling student
results for three modules a Semester -->
                    <a href="https://github.com/alwaysPasindu/Student-Activity-</pre>
Management-System" target="_blank"><i class='bx bx-link-external' ></i>
                </div>
            </div>
            <div class="portfolio-box">
                <img src="images/portfolio3.png" alt="">
                <div class="portfolio-layer">
                    <h4>Personal Finance Tracker</h4>
```

```
Personal-Finance-Tracker Based on Python and Tkinter
                    <a href="https://github.com/alwaysPasindu/Personal-Finance-</pre>
Tracker" target=" blank"><i class='bx bx-link-external' ></i></a>
                </div>
            </div>
        </div>
<h2 class="blog-heading"> BLOG <span>POSTS</span></h2>
        <div class="blog-container">
            <div class="blog-box">
                <div class="blog-img">
                    <img src="images/WebAssembly.png" alt="">
                </div>
                <div class="blog-text">
                     <span> <time datetime="2024-11-04">Posted on November 4,
2024</time> </span>
                     <a href="https://medium.com/@contactmrpasindu/the-rise-of-</pre>
webassembly-a871bb432da7" class="blog-title">The Rise of WebAssembly</a>
                     WebAssembly is changing the game for web performance.
This low-level language allows developers to run complex applications in the
browser at near-native speed. From gaming to data visualization, WebAssembly is
opening up new possibilities for what can be achieved on the web. As a web
developer, I'm excited to explore how this technology can enhance the projects I
work on.
                     <a href="https://medium.com/@contactmrpasindu/the-rise-of-</pre>
webassembly-a871bb432da7">Read More</a>
                </div>
            </div>
            <div class="blog-box">
                <div class="blog-img">
                    <img src="images/serverless.png" alt="">
                </div>
                <div class="blog-text">
                     <span><time datetime="2024-11-04">Posted on November 4,
2024</time></span>
                     <a href="https://medium.com/@contactmrpasindu/embracing-</pre>
serverless-architecture-bd050c444418" class="blog-title">Embracing Serverless
Architecture</a>
```

```
Serverless architecture is revolutionizing how we build
and deploy web applications. By eliminating the need to manage servers, it allows
developers to focus solely on writing code. This approach not only simplifies
deployment but also offers better scalability and cost-efficiency. I've found
that adopting serverless has significantly streamlined my development process and
improved the performance of my applications.
                     <a href="https://medium.com/@contactmrpasindu/embracing-
serverless-architecture-bd050c444418">Read More</a>
                </div>
            </div>
            <div class="blog-box">
                <div class="blog-img">
                    <img src="images/Web-Accessibility.png" alt="">
                </div>
                <div class="blog-text">
                     <span><time datetime="2024-11-04">Posted on November 4,
2024</time></span>
                     <a href="https://medium.com/@contactmrpasindu/the-impact-of-</pre>
web-accessibility-9a9dd460fcb3" class="blog-title">The Impact of Web
Accessibility</a>
                     Web accessibility is more than just a legal requirement;
it's a crucial aspect of inclusive design. By ensuring our websites are
accessible to all users, including those with disabilities, we're not only
expanding our audience but also improving the overall user experience. I've
learned that incorporating accessibility from the start of a project leads to
cleaner, more semantic code and often results in better SEO as well.
                     <a href="https://medium.com/@contactmrpasindu/the-impact-of-</pre>
web-accessibility-9a9dd460fcb3">Read More</a>
                </div>
            </div>
        </div>
    </section>
    <!-- <footer class="footer">
        <div class="footer-text">
            Copyright © 2024 by <a
href="https://linktr.ee/always.pasindu" id="tree"><i>Pasindu Dilshan </i></a>
All Right Reserved.
       </div>
```

```
</footer> -->

<script>
    let menuIcon = document.querySelector('#menu-icon');
    let navbar = document.querySelector('.navbar');

menuIcon.onclick = () => {
    menuIcon.classList.toggle('bx-x');
    navbar.classList.toggle('active');
    };

</script>

<br/>
</body>
</html>
```

Contact.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Pasindu Dilshan</title>
    <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css'</pre>
rel='stylesheet'>
    <link rel="stylesheet" href="Style.css">
</head>
<body>
    <header class="header">
        <a href="index.html" class="logo"> alwaysPasindu.</a>
        <i class='bx bx-menu' id="menu-icon"></i>
            <nav class="navbar">
                <a href="index.html" >HOME</a>
```

```
<a href="About.html">ABOUT</a>
                <a href="Blog.html">BLOG</a>
                <a href="Contact.html" class="active">CONTACT</a>
            </nav>
    </header>
    <section class="contact" id="contact">
        <h2 class="heading">Contact <span>Me!</span></h2>
        <form>
            <div class="input-box">
                <input type="text" placeholder="Full Name">
                <input type="email" placeholder="Email Address">
            </div>
            <div class="input-box">
                <input type="number" placeholder="Mobile Number">
                <input type="text" placeholder="Email Subject">
            </div>
            <textarea name="#" id="#" cols="30" rows="10" placeholder="Your
Message"></textarea>
            <input type="submit" value="Send Message" class="btn"</pre>
onclick="location.href='mailto:pasindu.20230294@iit.ac.lk';">
        </form>
    </section>
    <footer class="footer">
        <div class="footer-text">
            Copyright © 2024 by <a
href="https://linktr.ee/always.pasindu" id="tree"><i>Pasindu Dilshan </i></a>|
All Right Reserved.
        </div>
    </footer>
    <script>
        let menuIcon = document.querySelector('#menu-icon');
        let navbar = document.querySelector('.navbar');
        menuIcon.onclick = () => {
            menuIcon.classList.toggle('bx-x');
            navbar.classList.toggle('active');
    </script>
```

```
</body>
</html>
```

Style.css

```
@import
url('https://fonts.googleapis.com/css2?family=Poppins:ital,wght@0,100;0,200;0,300
;0,400;0,500;0,600;0,700;0,800;0,900;1,100;1,200;1,300;1,400;1,500;1,600;1,700;1,
800;1,900&display=swap');
/* General reset and base styles */
   margin: 0;
  padding: 0;
   box-sizing: border-box;
   text-decoration: none;
   border: none;
  outline: none;
   scroll-behavior: smooth;
  font-family: 'Poppins', sans-serif;
/* Color variables */
:root{
   --bg-color :black;
   --second-bg-color: #323946;
   --text-color: #fff;
   --main-color: #f9004d;
/* Base HTML and body settings */
html{
   font-size: 62.5%;
   overflow-x: hidden;
body{
   background: var(--bg-color);
   color:var(--text-color);
```

```
/* Section styling */
section{
   min-height: 100vh;
   padding: 10rem 9% 2rem;
/* Header styling */
.header{
   position: fixed;
  top: 0;
  left: 0;
  width: 100%;
  padding: 2rem 9%;
  background: var(--bg-color);
   display: flex;
  justify-content: space-between;
  align-items: center;
  z-index: 100;
/* Header styling */
.navbar{
  padding: 20px;
  display: flex-end;
  justify-content: space-between;
.logo{
  font-size: 2rem;
  color: var(--text-color);
  font-weight: 600;
  cursor: default;
.navbar a{
  font-weight: 600;
  font-size: 2rem;
  color: var(--text-color);
  margin-left: 4rem;
  padding: 20px;
.navbar a:hover,
.navbar a.active {
```

```
color: var(--main-color);
#menu-icon {
  font-size: 3.6rem;
  color: var(--text-color);
  display: none;
.home{
  display: flex;
  justify-content: center;
   align-items: center;
.home-img img{
  width: 35vw;
.home-content h3{
  font-size: 3.2rem;
   font-weight: 700;
.home-content h3:nth-of-type(2){
  margin-bottom: 2rem;
span{
   color: var(--main-color);
.home-content h1{
  font-size: 5.6rem;
```

```
font-weight: 700;
  line-height: 1.3;
.home-content p {
  font-size: 1.6rem;
/* Social media icons */
.social-media a{
  display: inline-flex;
  justify-content: center;
  align-items: center;
  width: 4rem;
  height: 4rem;
  background: transparent;
  border: .2rem solid var(--main-color);
  border-radius: 50%;
   font-size: 2rem;
   color: var(--main-color);
   margin: 3rem 1.5rem 3rem 0;
.social-media a:hover{
  background: var(--main-color);
  color: var(--second-bg-color);
  box-shadow: 0 0 1rem var(--main-color);
/* Button styling */
.btn{
  display: inline-block;
  padding: 1rem 2.8rem;
  background: var(--main-color);
  border-radius: 4rem;
  box-shadow: 0 0 1rem var(--main-color);
  font-size: 1.6rem;
  color: #FEFDFD;;
  letter-spacing: .1rem;
  font-weight: 600;
```

```
.btn:hover{
  box-shadow: none;
.about{
  display: flex;
  justify-content: center;
  align-items: center;
  gap: 2rem;
  background: var(--bg-color);
.about-img img{
  width: 35vw;
.heading{
  text-align: center;
  font-size: 4.5rem;
.about-content h2{
  text-align: left;
  line-height: 1.2;
.about-content h3{
  font-size: 2.6rem;
.about-content p{
  font-size: 1.6rem;
  margin: 2rem 0 3rem;
/* Portfolio section */
.portfolio{
  background: var(--bg-color);
```

```
.portfolio h2{
  margin-bottom: 4rem;
.portfolio-container{
  grid-template-columns: repeat(3, 1fr);
  display: grid;
  align-items: center;
  gap: 2.5rem;
.portfolio-container .portfolio-box{
  position: relative;
  border-radius:2rem ;
  overflow: hidden;
  display: flex;
.portfolio-box img{
  width: 100%;
  transition: .5s ease;
.portfolio-box .portfolio-layer{
  position: absolute;
  bottom: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background: linear-gradient(rgba(0, 0, 0, .1), var(--main-color));
  display: flex;
  justify-content: center;
  align-items: center;
  flex-direction: column;
  text-align: center;
  padding: 0 4rem;
  transform: translateY(100%);
  transition: .5s ease;
.portfolio-box:hover .portfolio-layer{
  transform: translateY(0);
```

```
.portfolio-layer h4{
  font-size: 3rem;
.portfolio-layer p{
  font-size: 1.6rem;
  margin: .3rem 0 1rem;
.portfolio-layer a{
  display: inline-flex;
  justify-content: center;
  align-items: center;
  width: 5rem;
  height: 5rem;
  background: var(--text-color);
  border-radius: 50%;
.portfolio-layer a i{
  font-size: 2rem;
  color: var(--second-bg-color);
/* Blog styling */
.blog-heading{
  text-align: center;
  font-size: 4.5rem;
.about-content h2{
  text-align: left;
  line-height: 1.2;
```

```
.blog-container{
  display: flex;
  justify-content: center;
  align-items: center;
  margin: 20px 0px;
  flex-wrap: wrap;
.blog-box{
  width: 350px;
  background-color: #e9dfdf;
  border: 1px solid rgb(49, 46, 46);
  margin: 20px;
  border-radius:0.7rem ;
  position: relative;
  overflow: hidden;
.blog-img{
  width: 100%;
  height: auto;
.blog-img img{
  width: 100%;
  height: 100%;
  object-fit: cover;
  object-position: center;
.blog-text{
  padding: 30px;
  display: flex;
  flex-direction: column;
.blog-text span{
  color: #000000;
  font-size: 0.9rem;
.blog-text .blog-title{
  font-size: 1.3rem;
```

```
font-weight: 500;
  color: var(--second-bg-color);
.blog-text .blog-title:hover{
  color: #f9004d;
  transition: all ease 0.3s;
.blog-text p{
  color: #323946;
  font-size: 0.9rem;
  display: -webkit-box;
  -webkit-line-clamp: 3;
  line-clamp: 3;
  -webkit-box-orient: vertical;
  overflow: hidden;
  text-overflow: ellipsis;
  margin: 20px 0px;
.blog-text a{
  color: #000000;
.blog-text a:hover{
  color: #f9004d;
  transition: all ease 0.3s;
/* Contact styling */
.contact h2{
  margin-bottom: 3rem;
.contact form{
  max-width: 70rem;
  margin: 1rem auto;
  text-align: center;
```

```
margin-bottom: 3rem;
.contact form .input-box{
  display: flex;
  justify-content: space-between;
  flex-wrap: wrap;
.contact form .input-box input,
.contact form textarea {
  width: 100%;
  padding: 1.5rem;
  font-size: 1.6rem;
  color: var(--text-color);
  background: var(--second-bg-color);
  border-radius: .8rem;
  margin: .7rem 0;
.contact form .input-box input {
  width: 49%;
.contact form textarea {
  resize: none;
.contact form .btn {
  margin-top: 2rem;
  cursor: pointer;
/* Footer styling */
.footer {
  display: flex;
  justify-content: center;
  align-items: center;
  flex-wrap: wrap;
  padding: 2rem 9%;
```

```
background: var(--bg-color);
   position: relative;
#tree{
   color: var(--text-color);
/* Responsive styling */
@media(max-width: 1200px) {
   html {
      font-size: 55%;
@media(max-width: 991px) {
   .header {
       padding: 2rem 3%;
   section{
       padding: 10rem 3% 2rem;
   .services {
       padding: 7rem;
   .portfolio{
       padding-bottom: 7rem;
   .contact {
      min-height: auto;
   .footer {
       padding: 2rem 3%;
```

```
@media(max-width: 768px) {
   #menu-icon{
       display: block;
   .navbar {
       position: absolute;
       top: 100%;
       left: 0;
       width: 100%;
       padding: 1rem 3%;
       background: var(--bg-color);
       border-top: .1rem solid rgba(0, 0, 0, .2);
       box-shadow: 0 .5rem 1rem rgba(0, 0, 0, .2);
       display: none;
   .navbar.active{
       display: block;
   .navbar a {
       display: block;
       font-size: 2rem;
       margin: 3rem 0;
   .home {
       flex-direction: column;
   .home-content h3 {
       font-size: 2.6rem;
   .home-content h1 {
       font-size: 5rem;
```

```
.home-img img {
       width: 70vw;
       margin-top: 4rem;
   .about{
       flex-direction: column-reverse;
   .about img {
       width: 70vw;
       margin-top: 4rem;
   .services h2{
       margin-bottom: 3rem;
   .portfolio h2 {
       margin-bottom: 3rem;
   .portfolio-container {
       grid-template-columns: repeat(2, 1fr);
@media(max-width: 617px) {
   .portfolio-container{
       grid-template-columns: 1fr;
@media(max-width: 450px) {
  html {
       font-size: 50%;
   .contact form .input-box input {
      width: 100%;
```

```
}
}

@media(max-width: 365px) {
   .home-img {
      width: 900vw;
}

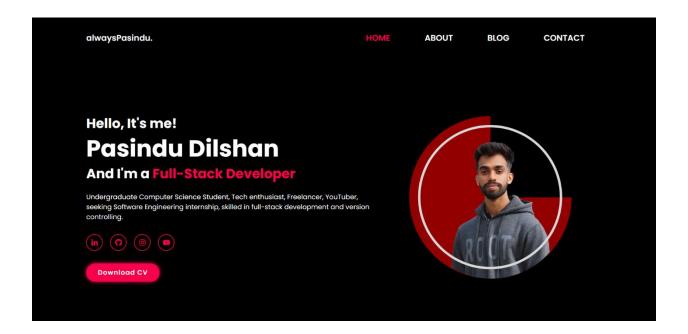
   .about-img img {
      width: 90vw;
}

   .footer{
      flex-direction: column-reverse;
}

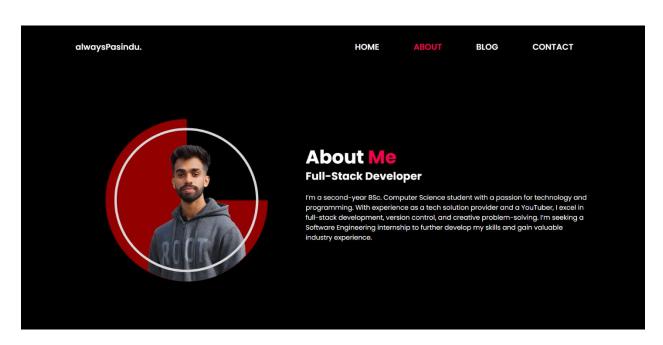
   .footer p {
      text-align: center;
      margin-top: 2rem;
}
```

Appendix B: Screenshots

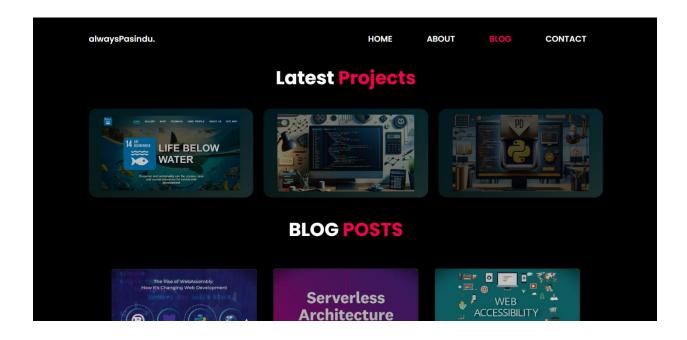
Home.html / index.html

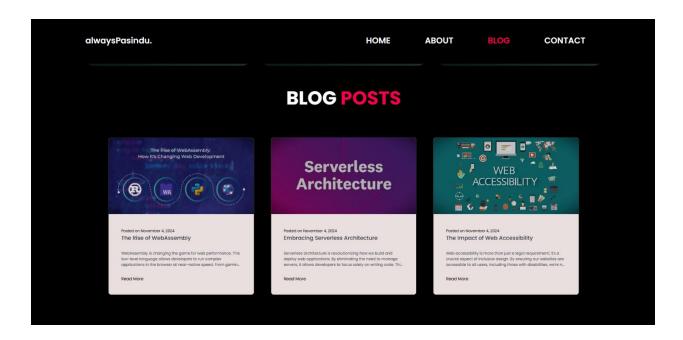


About.html

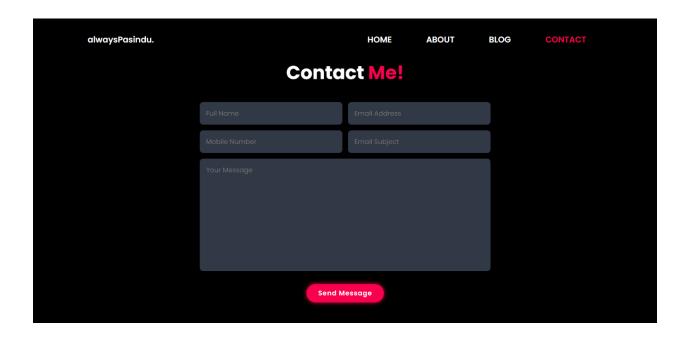


Blog.html





Contact.html



Appendix C: Screenshots - Webpage Validation Evidence

Nu Html Checker This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change Showing results for index.html Checker Input Show source outline image report Options... Check by file upload Choose File No file chosen Uploaded files with .xhtml or .xht extensions are parsed using the XML parser. Check Document checking completed. No errors or warnings to show. Used the HTML parser. Total execution time 3 milliseconds.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for uploaded file About.html

Checker Input	
Show source outline image report Options	
Check by file upload Choose File No file chosen Uploaded files with .xhtml or .xht extensions are parsed using the XML parser. Check	
Document checking completed. No errors or warnings to show.	

Nu Html Checker

Used the HTML parser.

Total execution time 3 milliseconds.

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for Blog.html

Checker Input	
·	
Show source outline image report Options	
Check by file upload ✓ Choose File No file chosen	
Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.	
Check	

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 5 milliseconds.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for Contact.html

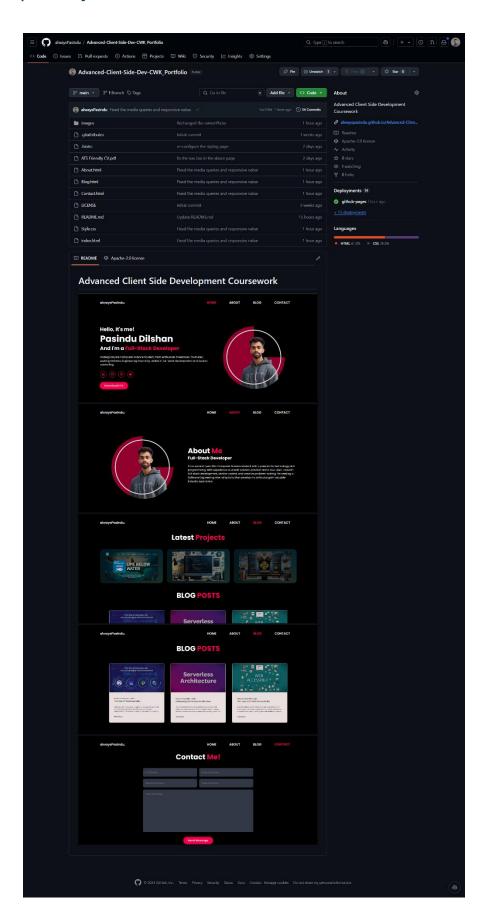
Checker Input
Show source outline image report Options
Check by file upload ✓ Choose File No file chosen
Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.
Check

Document checking completed. No errors or warnings to show.

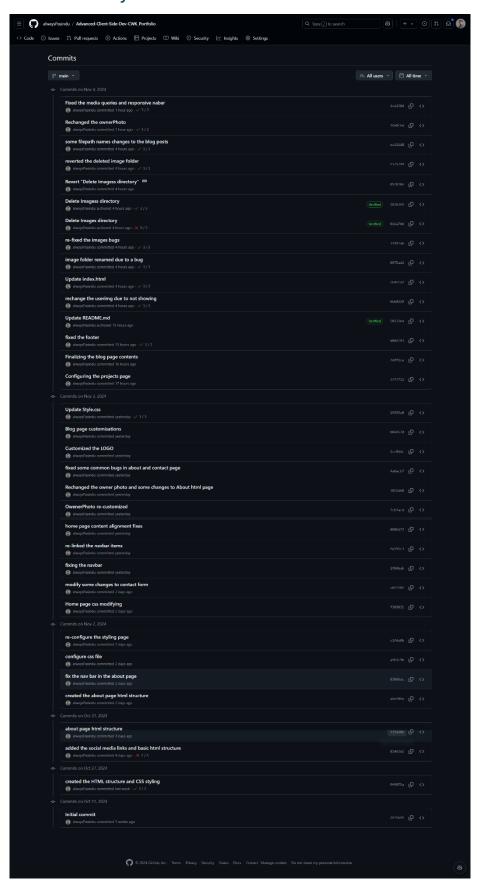
Used the HTML parser.

Total execution time 8 milliseconds.

GitHub Repository



GitHub Commit History



Lighthouse Report (Desktop)

