



INFORMATICS
INSTITUTE OF
TECHNOLOGY

**UNIVERSITY OF WESTMINSTER
INFORMATICS INSTITUTE OF
TECHNOLOGY**

5COSC026W

Advanced Client Side Development (2024/25)

Nimesha Sachethani - 20221251 - w1954063

Table of Contents

| | |
|--|----|
| 1.Introduction | 3 |
| 2.HTML Files..... | 4 |
| 2.1 Main Page (index.html) | 4 |
| 2.1.1. Large Screen View | 4 |
| 2.1.2. Small Screen View | 6 |
| 2.1.3. Explanation of its HTML structure..... | 8 |
| 2.1.4. Code in Main Page | 9 |
| 2.2. About Page (about.html) | 11 |
| 2.2.1. Screenshot of the About Page Large Screen Size..... | 11 |
| 2.2.2. Small Screen Size..... | 12 |
| 2.2.3. Explanation of page structure | 13 |
| 2.2.4. Code in About Page | 13 |
| 2.3 Blog/Personal Projects Page (blog.html) | 14 |
| 2.3.1. Screenshot of the Blog Page, with two blog posts..... | 15 |
| 2.3.2. Small Screen view | 17 |
| 2.3.3. Code in project Page | 18 |
| 2.4 Form Page (contact.html) | 21 |
| 2.4.1. Screenshot of the Contact Form Page Large Screen | 21 |
| 2.4.2. In Small Screen view..... | 22 |
| 2.4.3. Key Form Components and Elements | 23 |
| 2.4.4. Code in Contact me page | 24 |
| 3. CSS Stylesheet..... | 27 |
| 3.1. CSS Styling Overview | 27 |
| 3.2 Fonts & Colors | 27 |
| 3.3 CSS Features Used | 27 |
| 3.4 Other CSS Elements..... | 28 |
| 3.5. CSS Code | 29 |
| 4. Responsiveness and Media Queries | 37 |
| 4.1. Screenshots of the site of on different devices or screen sizes | 37 |
| 4.2. Explanation of media query setup and specific CSS properties that change for mobile views.. | 41 |
| 5. Diary of Project Progress | 42 |
| 5.1 Week-by-Week Entries | 42 |
| 5.2. Hand drawing progress..... | 43 |
| 6.Conclusion..... | 45 |
| 7.Appendices | 46 |
| 7.1. Appendix A: Screenshots | 46 |
| 7.2. Appendix B: Resources | 46 |
| 8.References | 47 |

1. Introduction

This project involves creating a responsive, multi-page portfolio website using HTML5 and CSS3. The site will include a Main page with side information, an About page, a Personal Projects or Hobbies page featuring two blog posts, and a Contact page with a registration form.

A single external CSS3 stylesheet will style the entire site, utilizing custom fonts, colors, shadows, and transitions to enhance visual appeal. Advanced CSS3 features, like pseudoclasses, attribute selectors, and animations, will improve interactivity. Media queries will ensure responsiveness across screen sizes.

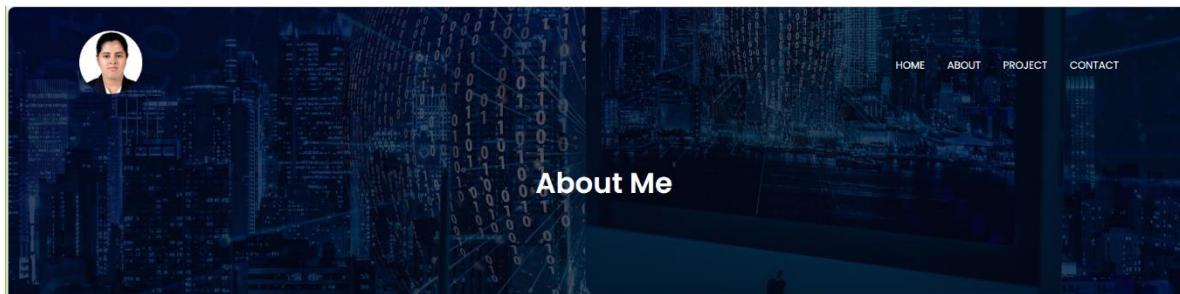
Weekly or bi-weekly diary entries will document progress, design choices, and implementation details, supporting reflection and preparation for the final assessment.

2.HTML Files

2.1 Main Page (index.html)

- Screenshot of the Main Page in large and small screen views.
- Explanation of its HTML structure, purpose of side information, and HTML5 elements used.

2.1.1. Large Screen View



Education

★ B Sc (Hons) Computer Science, Informatics Institute of Technology (IIT),
University of Westminster (UK)

- * Completed First year
- * Software Development I
- * Mathematics for Computing



Higher Education

Currently pursuing a BEng (Hons) Software Engineering degree at the Informatics Institute of Technology (IIT), affiliated with the University of Westminster.
Completed multiple years, mastering subjects like machine learning, algorithms, and software development.



Programming Skills

Proficient in developing responsive web applications with modern technologies, building robust backend systems, and managing optimized databases to ensure performance and data integrity.

Web Development

Skilled in building responsive and visually appealing websites using modern technologies like HTML, CSS, JavaScript, and frameworks such as React.js and Bootstrap. I create user-friendly web applications that focus on performance and accessibility.

Backend Development

Proficient in backend technologies, including C#, Python, and ASP .Net, to build robust and scalable server-side applications. I ensure seamless integration with databases using Web APIs and efficient MySQL queries.

Database Management

Expertise in designing, managing, and optimizing databases using SQL, MySQL, and PostgreSQL. I handle complex data structures to ensure the accuracy, security, and efficiency of stored information for various applications.

Key Skills

Highly skilled in managing time efficiently, allowing for the successful completion of tasks within set deadlines. I bring a creative approach to problem-solving, finding innovative solutions to complex challenges. Additionally, I excel in clear and concise communication, fostering strong teamwork and collaboration to ensure the achievement of group objectives.



2.1.2. Small Screen View

The screenshot shows a web browser window with the title 'BrainBooster'. The page content includes three main sections: 'Good Time Management' (with a DNA helix icon), 'Creativity in Problem-Solving' (with a puzzle pieces icon), and 'Strong Communication and Interpersonal Skills' (with a team meeting icon). Below these is a section titled 'Social Media Links' with links to LinkedIn and GitHub.

Good Time Management
Able to prioritize tasks effectively, ensuring deadlines are met while maintaining quality in work.

Creativity in Problem-Solving
Utilizes innovative thinking to tackle challenges and develop efficient solutions in various scenarios.

Strong Communication and Interpersonal Skills
Excels in conveying ideas clearly and building positive relationships with team members and stakeholders.

Social Media Links
Stay connected with my professional journey and projects through these platforms

LinkedIn: Connect with me on LinkedIn to view my professional experience, achievements, and networking activities.
[LinkedIn](#)

GitHub: Explore my coding projects and contributions on GitHub, showcasing my work in software development and collaborative projects.
[GitHub](#)

Windows taskbar at the bottom shows icons for File Explorer, Search, Task View, and other system tools. The date and time are 11/4/2024 at 6:06 PM.



Welcome to My Portfolio

Name: Nimesha Sachethani
Title: Software Engineer | Driven by Technology | Continuous Learner

Welcome to my portfolio! I'm a passionate software engineer committed to continuous learning and growth. Here, you'll find an overview of my skills, achievements, and the exciting projects I've worked on. My goal is to leverage my technical expertise and creativity to deliver impactful solutions and exceed expectations.

[Visit Us To More](#)

Higher Education

Currently pursuing a BEng (Hons) Software Engineering degree at the Informatics Institute of Technology (IIT), affiliated with the University of Westminster. Completed multiple years, mastering subjects like machine learning, algorithms, and software development.

Programming Skills

Proficient in developing responsive web applications with modern technologies, building robust backend systems, and managing optimized databases to ensure performance and data integrity.

Web Development

Skilled in building responsive and visually appealing websites using modern technologies like HTML, CSS, JavaScript, and frameworks such as React.js and Bootstrap. I create user-friendly web applications that focus on performance and accessibility.

Backend Development

Proficient in backend technologies, including C#, Python, and ASP .Net, to build robust and scalable server-side applications. I ensure seamless

databases using SQL, MySQL, and PostgreSQL to handle complex data structures to ensure the accuracy, security, and efficiency of stored information for various applications.

Key Skills

Highly skilled in managing time efficiently, allowing for the successful completion of tasks within set deadlines. I bring a creative approach to problem-solving, finding innovative solutions to complex challenges. Additionally, I excel in clear and concise communication, fostering strong teamwork and collaboration to ensure the achievement of group objectives.

Programming Skills

Proficient in developing responsive web applications with modern technologies, building robust backend systems, and managing optimized databases to ensure performance and data integrity.

Good Time Management

Able to prioritize tasks effectively, ensuring deadlines are met while maintaining quality in work.

Strong Communication and Interpersonal Skills

Excels in conveying ideas clearly and building positive relationships with team members and stakeholders.

work in software development and collaborative projects

GitHub

COLLABORATIONS, FEEL FREE TO connect with me

Social Media Links

Stay connected with my professional journey and projects through these platforms:

Connect with me on LinkedIn to view my professional experience, achievements, and networking activities.

LinkedIn

For more information or to discuss potential collaborations, feel free to connect with me

CONTACT ME

About This Assignment

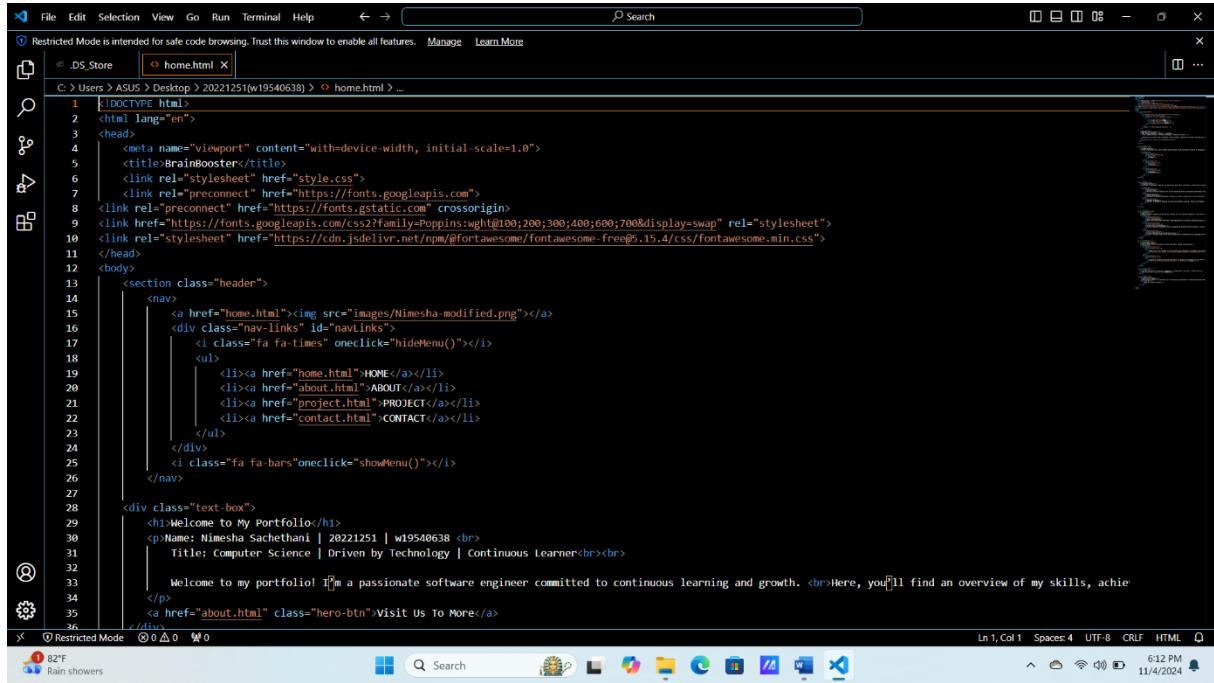
This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.

2.1.3. Explanation of its HTML structure

- The main page is built with a clean and well-organized HTML5 structure, ensuring semantic meaning for each section. Key components include:
 - <!DOCTYPE html>: Defines the document as HTML5 for correct rendering.
 - Header Section: Contains the <nav> element, which includes a logo, navigation links, and a mobile menu with icons.
 - Main Content:
 - Introduction (<section class="header">): Contains welcoming text and links to explore further, showcasing the site's purpose.
 - About (<section class="campus">): Describes educational background and displays images with descriptive overlays.
 - Skills (<section class="course">): Highlights key programming skills, separated into columns using <div> elements for clear visual structure.
 - Key Skills (<section class="facilities">): Presents skills with supporting images and descriptions, reinforcing the strengths of the individual.
- Side Information:
 - Social Media Links (<section class="testimonials">): Provides links to LinkedIn and GitHub profiles to allow visitors to connect professionally and explore project contributions.
 - Footer: Contains an "About This Assignment" section to clarify the educational purpose of the page, using <section class="footer"> to keep the structure consistent and organized.
 - Purpose of Side Information
 - The Social Media Links section serves as a side information area where visitors can find professional and project-related links to social media. This allows users to connect with the creator and follow their work.
- Use of HTML5 Elements
 - <header>, <section>, <nav>, <footer>: These elements are used to give a meaningful and accessible structure, allowing for easy navigation and readability.
 - <h1>, <h3>, <p>, <a>: Used appropriately to create a hierarchy in headings, descriptive text, and clickable elements.
 - Media and Content Elements: Images and text are arranged with <div> containers and enhanced with HTML5 elements like and <p>.
 - Font and Styles: Fonts from Google Fonts are integrated using <link> tags in the head section to create a uniform and stylish look.

2.1.4. Code in Main Page



The screenshot shows a code editor window with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Search.
- Status Bar:** Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More. C:\> Users > ASUS > Desktop > 20221251(w19540638) > home.html > ... Ln 1, Col 1 Spaces: 4 UTF-8 CR/LF HTML. 6:12 PM 11/4/2024.
- Code Area:** The code is an HTML file named "home.html". It includes meta tags for viewport and fonts.googleapis.com, and a link to a local CSS file. The header section contains a navigation menu with links to HOME, ABOUT, PROJECT, and CONTACT. The text box section displays a welcome message and a link to the "about.html" page.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>BrainBooster</title>
    <link rel="stylesheet" href="style.css">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;600&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@5.15.4/css/fontawesome.min.css">
</head>
<body>
    <section class="header">
        <nav>
            <a href="home.html"></a>
            <div class="nav-links" id="navlinks">
                <i class="fa fa-times" onclick="hideMenu()"></i>
                <ul>
                    <li><a href="home.html">HOME</a></li>
                    <li><a href="about.html">ABOUT</a></li>
                    <li><a href="project.html">PROJECT</a></li>
                    <li><a href="contact.html">CONTACT</a></li>
                </ul>
            </div>
            <i class="fa fa-bars" onclick="showMenu()"></i>
        </nav>
    </section>
    <div class="text-box">
        <h1>Welcome to My Portfolio</h1>
        <p>Name: Nimesha Sachethani | 20221251 | w19540638 <br>
            Title: Computer Science | Driven by Technology | Continuous Learner<br><br>
            Welcome to my portfolio! I'm a passionate software engineer committed to continuous learning and growth. Here, you'll find an overview of my skills, achieve
        </p>
        <a href="about.html" class="hero-btn">Visit Us To More</a>
    </div>
</body>
```

```

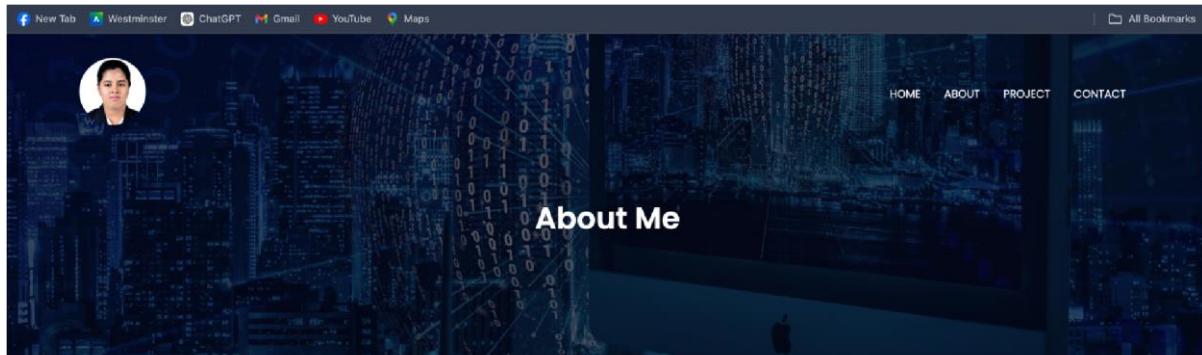
home.html
1 <html lang="en">
2   <body>
3     <section class="course">
4       <div class="row">
5         <div class="course-col">
6           <div>
7             <h3>Database Management</h3>
8             <p>Expertise in designing, managing, and optimizing databases using SQL, MySQL, and PostgreSQL. I handle complex data structures to ensure the accuracy and efficiency of data retrieval and manipulation.</p>
9           </div>
10      </div>
11    </section>
12
13    <!-- Facilities -->
14    <section class="facilities">
15      <h1>Key Skills</h1>
16      <p>Highly skilled in managing time efficiently, allowing for the successful completion of tasks within set deadlines. I bring a creative approach to problem-solving and enjoy finding efficient solutions.</p>
17      <div class="row">
18        <div class="facilities-col">
19          
20          <h3>Good Time Management</h3>
21          <p>Able to prioritize tasks effectively, ensuring deadlines are met while maintaining quality in work.</p>
22        </div>
23        <div class="facilities-col">
24          
25          <h3>Creativity in Problem-Solving</h3>
26          <p>Utilizes innovative thinking to tackle challenges and develop efficient solutions in various scenarios.</p>
27        </div>
28        <div class="facilities-col">
29          
30          <h3>Strong Communication and Interpersonal Skills</h3>
31          <p>Excels in conveying ideas clearly and building positive relationships with team members and stakeholders.</p>
32        </div>
33      </div>
34    </section>
35
36    <!-- testimonials -->
37    <section class="testimonials">
38      <h1>Social Media Links</h1>
39      <p>Stay connected with my professional journey and projects through these platforms</p>
40      <div class="row">
41        <div class="testimonial-col">
42          
43          <div>
44            <p>Connect with me on LinkedIn to view my professional experience, achievements, and networking activities.</p>
45            <h3>LinkedIn</h3>
46          </div>
47        </div>
48        <div class="testimonial-col">
49          
50          <div>
51            <p>Explore my coding projects and contributions on GitHub, showcasing my work in software development and collaborative projects. </p>
52            <h3>GitHub</h3>
53          </div>
54        </div>
55      </div>
56    </section>
57
58    <!-- call to action -->
59    <section class="cta">
60      <h1>For more information or to discuss potential collaborations, feel free to connect with me</h1>
61      <a href="contact.html" class="hero-btn">CONTACT ME</a>
62    </section>
63
64    <!-- footer -->
65    <section class="footer">
66      <h4>About This Assignment</h4>
67      <p>This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and JavaScript. The design is clean and modern, utilizing responsive web design principles to ensure it looks great on all devices. The content highlights my proficiency in database management, problem-solving, communication, and interpersonal skills. The social media links provide a way for interested parties to stay connected with my professional journey and projects. The call-to-action button encourages users to contact me for further collaboration opportunities. The footer contains basic information about the assignment, such as the developer's name (Nimesha Sachethani) and the purpose of the website (coursework).</p>
68    </section>
69
70  </body>
71 </html>

```

2.2. About Page (about.html)

- Screenshot of the About Page.
- Explanation of page structure and layout using HTML5 elements.

2.2.1. Screenshot of the About Page Large Screen Size



Education

★ BEng (Hons) Software Engineering, Informatics Institute of Technology (IIT), University of Westminster (UK)

★ Completed First year
* Software Development I
* Mathematics for Computing
* Computer System Fundamentals
* User Design / User Development

★ High School

★ Bodhiraja College - Embilipitiya
* G.C.E Ordinary Level
* G.C.E Advanced Level



Personal Profile Statement

★ I am a highly driven, self-motivated software engineer committed to continuous learning and professional growth. I leverage my technical skills and knowledge to contribute effectively to organizational success, striving to deliver impactful solutions and exceed expectations.

[EXPLORE NOW](#)

About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethan.

2.2.2.Small Screen Size



About Me

Education

★ BEng (Hons) Software Engineering, Informatics Institute of Technology (IIT), University of Westminster (UK)

★ Completed First year
* Software Development I

[EXPLORE NOW](#)



About This Assignment

This website is part of my coursework for the University of

Software Development I
* Mathematics for Computing
* Computer System Fundamentals

★ Completed Second Year
* Software Development II
* Web Design and Development

★ High School

★ Bodhiraja College - Embilipitiya
* G.C.E Ordinary Level
* G.C.E Advanced Level

Personal Profile Statement

★ I am a highly driven, self-motivated software engineer committed to continuous learning and professional growth. I leverage my technical skills and knowledge to contribute effectively to organizational success, striving to deliver impactful solutions and exceed expectations.



About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.

2.2.3. Explanation of page structure

- This About page utilizes a structured, semantic HTML5 layout, enhancing accessibility and readability. The main components are:
- HTML5 Document Declaration:
- `<!DOCTYPE html>`: Declares the document as HTML5 for compatibility.
- `<html lang="en">`: Specifies the language, assisting accessibility tools.
- Head Section:
- `<head>`: Contains metadata, including `<meta>` tags for responsive design, `<title>` for the page title, and links to CSS styles and Google Fonts to create a consistent visual theme.
- Header Section (`<section class="Sub-header">`):
- Navigation (`<nav>`): The header includes a `<nav>` element with a logo and navigation links. The navigation bar also uses Font Awesome icons to enhance usability on mobile.
- `<h1>`: The main heading within the header section, "About Me," provides a clear, visually distinct title for the page.
- Main Content (`<section class="about-us">`):
- Row Layout (`<div class="row">`): The `<div class="row">` container organizes content into columns, creating a balanced, two-column layout.
- Education and Personal Profile: The `<div class="about-col">` containers present educational history, personal profile, and skills, using nested `<p>` elements for text and `
` for line breaks.
- `<h1>`: Used to introduce sections ("Education" and "Personal Profile Statement"), improving semantic clarity.
- `<p>`: Contains detailed educational background and personal profile statement.
- Image (``): The second `<div class="about-col">` includes an image to visually complement the content, adding personality to the profile.
- Footer (`<section class="footer">`):
- The footer provides assignment-related details, using `<h4>` for the section heading and `<p>` for a brief description.
- Author Information: A `<div class="heart">` container presents the creator's name, adding a personal touch.

2.2.4. Code in About Page

Advanced Client Side Development-Nimesha

```

<!--about.html -->
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta name="viewport" content="width=device-width, initial-scale=1.0">
5      <title>BrainBooster</title>
6      <link rel="stylesheet" href="style.css">
7      <link rel="preconnect" href="https://fonts.googleapis.com">
8      <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;600;700&display=swap" rel="stylesheet">
9      <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@5.15.4/css/fontawesome.min.css">
10     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@5.15.4/css/fontawesome.min.css">
11  </head>
12  <body>
13      <section class="sub-header">
14          <nav>
15              <a href="home.html"></a>
16              <div class="nav-links" id="navLinks">
17                  <i class="fa fa-times" onclick="hideMenu()"/>
18                  <ul>
19                      <li><a href="home.html">HOME</a></li>
20                      <li><a href="about.html">ABOUT</a></li>
21                      <li><a href="project.html">PROJECT</a></li>
22                      <li><a href="contact.html">CONTACT</a></li>
23                  </ul>
24              </div>
25              <i class="fa fa-bars" onclick="showMenu()"/>
26          </nav>
27          <h1>About Me</h1>
28      </section>
29      <!--about us content -->
30      <section class="about-us">
31          <div class="row">
32              <div class="about-col">
33                  <h1>Education</h1>
34                  <p> ★ Beng (Hons) Software Engineering, Informatics Institute of Technology (IIT), University of Westminster (UK)<br><br>
35                      * Completed First year<br>
36                      * Software Development I <br>
37                      * Mathematics for Computing<br>
38                      * Computer System Fundamentals<br><br>
39                      * Completed Second Year<br>
40                      * Software Development II<br>
41                      * Web Design and Development</p>
42                      <p> ★ High School:<br><br>
43                          * Bodhiraja College - Embilipitiya <br>
44                          * G.C.E Ordinary Level <br>
45                          * G.C.E Advanced Level<br>
46                  </p>
47                  <br>
48                  <br>
49                  <h1>Personal Profile Statement</h1>
50                  <p>★ I am a highly driven, self-motivated software engineer committed to continuous learning and professional growth. I leverage my technical skills
51                  <a href="home.html" class="hero-btn red-btn">EXPLORE NOW</a>
52              </div>
53              <div class="about-col">
54                  
55              </div>
56          </div>
57      </section>
58      <!-- footer -->
59      <section class="footer">
60          <h4>About This Assignment</h4>
61          <p>This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module.<br> It showcases my skills in HTML5,
62          <div class="heart">
63              <p>Done by: Nimesha Sachethani.</p>
64          </div>
65      </section>
66  </body>
67  </html>
68
69
70
71
72
73
74
75
76
77
78
79

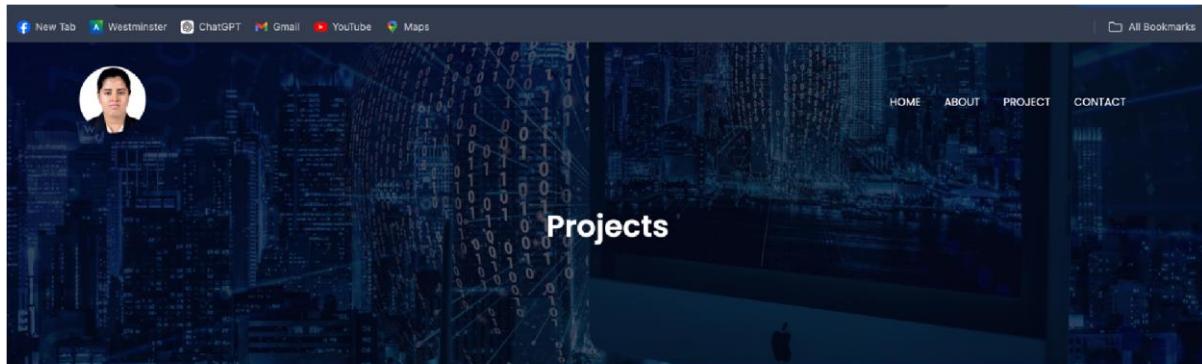
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF ⚡ HTML ⚡ Go Live ⚡ Prettier

2.3 Blog/Personal Projects Page (blog.html)

- Screenshot of the Blog Page, with two blog posts.
- Description of structure, use of semantic elements, and the `<time>` element with the `datetime` attribute.

2.3.1. Screenshot of the Blog Page, with two blog posts.



Movie Booking System: Java Console Application **November 2021**

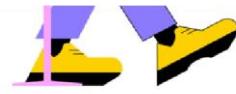
During my Software Development 1 module, I developed a Java-based movie booking system. The project allowed users to book seats for a movie, with real-time seat availability notifications. If a seat was already booked, the system would immediately notify the user, ensuring no double bookings.

The application featured a payment option, enabling users to pay for their tickets after selecting a movie. Upon successful payment, the system would print a ticket with all necessary details. I also implemented



validation checks throughout the process, ensuring a smooth user experience.

This project was entirely console-based but demonstrated key principles of seat management, user interaction, and transaction handling. Although simple, it functioned well and marked an important step in my journey as a software developer.



Mathematics for Computing: Logic Gates and IP Addresses November 2021

In the Mathematics for Computing module, I gained valuable knowledge in foundational concepts like logic gates and IP addressing. This course emphasized problem-solving skills, with a focus on understanding how logic gates function to perform calculations and operations in digital circuits. We also explored IP addresses, learning how to calculate and assign them efficiently within network structures.

This module sharpened my analytical abilities and deepened my understanding of how mathematical principles are applied in computing.

Software Development II (November 2022): Java OOP Coursework and Career Impact

In the Software Development II coursework, I developed key skills that are crucial for a successful career in technology. I mastered advanced OOP concepts such as inheritance, polymorphism, and encapsulation, which enabled me to create scalable systems. Additionally, I tackled synchronization issues in concurrency and multi-threading, enhancing my performance optimization skills. I applied the producer-consumer pattern, which significantly improved my resource management abilities.

On the technical side, I gained practical experience with JavaFX for building user-friendly front-end



Software Development II (November 2022): Java OOP Coursework and Career Impact

In the Software Development II coursework, I developed key skills that are crucial for a successful career in technology. I mastered advanced OOP concepts such as inheritance, polymorphism, and encapsulation, which enabled me to create scalable systems. Additionally, I tackled synchronization issues in concurrency and multi-threading, enhancing my performance optimization skills. I applied the producer-consumer pattern, which significantly improved my resource management abilities.

On the technical side, I gained practical experience with JavaFX for building user-friendly front-end interfaces and developed server-side logic in Java, preparing me for full-stack development roles.

This coursework also had a substantial impact on my career prospects. It enhanced my portfolio by showcasing my technical skills through a complex project, and it provided concrete examples for interviews, especially in discussing challenges like deadlocks. Furthermore, I improved my communication and time management skills, which are essential for thriving in professional environments.

About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethan.



2.3.2. Small Screen view



Movie Booking System: Java Console Application November 2021

During my Software Development I module, I developed a Java-based movie booking system. The project allowed users to book seats for a movie, with real-time seat availability notifications. If a seat was already booked, the system would immediately notify the user, ensuring no double bookings.

The application featured a payment option, enabling users to pay for their tickets after selecting a movie. Upon successful payment, the system would print a ticket with all necessary details. I also implemented validation checks throughout the process, ensuring a smooth user experience.

This project was entirely console-based but demonstrated key principles of seat management, user interaction, and transaction handling. Although simple, it functioned well and marked an important step in my journey as a software developer.

Mathematics for Computing: Logic Gates and IP Addresses November 2021

In the Mathematics for Computing module, I gained valuable knowledge in foundational concepts like logic gates and IP addressing. This course emphasized problem-solving skills, with a focus on understanding how logic gates function to perform calculations and operations in digital circuits. We also explored IP addresses, learning how to calculate and assign them efficiently within network structures.

This module sharpened my analytical abilities and deepened my understanding of how mathematical principles are applied in computing.

Software Development II (November 2022): Java OOP Coursework and Career Impact

In the Software Development II coursework, I developed key skills that are crucial for a successful career in technology. I mastered advanced OOP concepts such as inheritance, polymorphism, and encapsulation, which enabled me to create scalable systems. Additionally,



About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.

2.3.3. Code in project Page

Advanced Client Side Development-Nimesha

```
<!-- home.html -->
<html lang="en">
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>BrainBooster</title>
    <link rel="stylesheet" href="style.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;600;700&display=swap" rel="stylesheet">
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@5.15.4/css/fontawesome.min.css">
  </head>
  <body>
    <section class="Sub-header">
      <nav>
        <a href="home.html"></a>
        <div class="nav-links" id="navLinks">
          <ul>
            <li><a href="home.html">HOME</a></li>
            <li><a href="about.html">ABOUT</a></li>
            <li><a href="project.html">PROJECT</a></li>
            <li><a href="contact.html">CONTACT</a></li>
          </ul>
        </div>
        <i class="fa fa-bars" onclick="showMenu()"/>
      </nav>
      <h1>Projects</h1>
    </section>

    <!-- blog page content -->
    <section class="blog-content">
      <div class="row">
        <div class="blog-left">
          <h2>
            Movie Booking System: Java Console Application<br>
            <time datetime="2021-11">November 2021</time>
          </h2>
          <p>During my Software Development 1 module, I developed a Java-based movie booking system. The project allowed users to book seats for a movie, with payment integration. The application featured a payment option, enabling users to pay for their tickets after selecting a movie. Upon successful payment, the system would generate a receipt. This project was entirely console-based but demonstrated key principles of seat management, user interaction, and transaction handling. Although some features were missing, it provided a solid foundation for learning Java's capabilities in a real-world scenario.<br>
          <br>
          <p>This project was entirely console-based but demonstrated key principles of seat management, user interaction, and transaction handling. Although some features were missing, it provided a solid foundation for learning Java's capabilities in a real-world scenario.<br>
          <br>
        </div>
      </div>
    </section>
```

The screenshot shows a code editor interface with a dark theme. The title bar reads "Advanced Client Side Development-Nimesha". The left sidebar lists three files: "home.html", "about.html", and "project.html". The "project.html" tab is active, displaying the following HTML code:

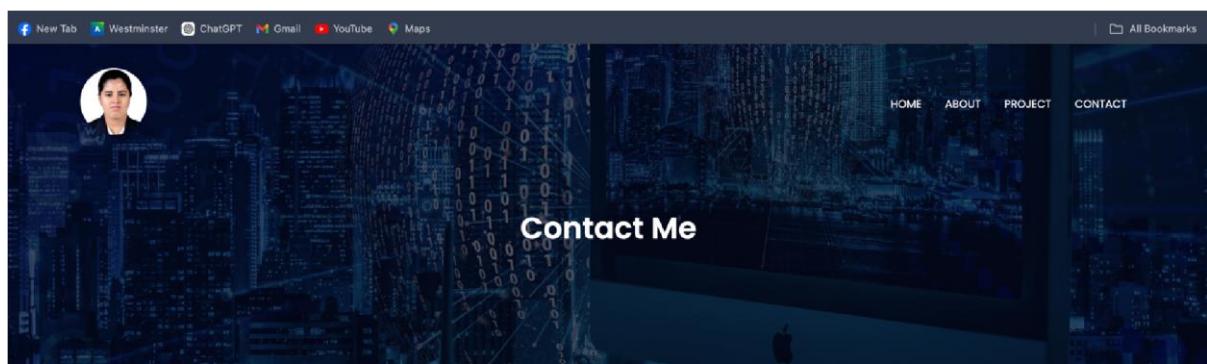
```
1 <html lang="en">
2   <body>
3     <section class="blog-content">
4       <div class="row">
5         <div>
6           <div>
7             <!-- footer -->
8             <section class="footer">
9               <h4>About This Assignment</h4>
10              <p>This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module.<br> It showcases my skills in HTM
11              <div class="heart">
12                <p>Done by: Nimesha Sachethani.</p>
13              </div>
14            </section>
15          </div>
16        </div>
17      </div>
18    </body>
19  </html>
```

The code editor includes standard UI elements like tabs, a search icon, a refresh icon, and a status bar at the bottom indicating "Ln 1, Col 1" and "Spaces: 4".

2.4 Form Page (contact.html)

- Screenshot of the Contact Form Page.
- Explanation of HTML5 form elements used and why they were chosen for the userfriendly form layout.

2.4.1. Screenshot of the Contact Form Page Large Screen

A detailed view of the contact form fields. On the left, there is a section titled "Send me a Message" with three contact options: "HOME" (address: No.743, Habaraluwewa, Sevanagala), "EMAIL" (nirmeshasachethani@gmail.com), and "MOBILE" (+94) 71 9023802. On the right, there are three input fields: "Name" (placeholder: Enter your name), "Email" (placeholder: Enter email address), and "Message" (placeholder: Message). A red error message "Please fill in this field." is visible next to the "Message" field. Below the message field is a red "Send Message" button.

About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.



2.4.2. In Small Screen view

The screenshot shows a mobile contact form. At the top left is a circular profile picture of a person. To its right, the text "Contact Me" is displayed in a large, bold, white font. Below this, there is a section for sending a message, which includes a placeholder "Send me a Message". Further down, there are links for "HOME" (with an icon of a house) and "EMAIL" (with an icon of an envelope). On the right side of the screen, there is a contact information section. It includes icons for "EMAIL" and "MOBILE", followed by the respective details: nimeshasachethani@gmail.com and +(94)71 9023902. Below this, there are three input fields labeled "Name", "Email", and "Message", each with a placeholder text ("Enter your name", "Enter email address", and "Message" respectively). At the bottom of the contact form, there is a red-bordered button labeled "Send Message".

EMAIL
nimeshasachethani@gmail.com

MOBILE
+(94)71 9023902

Name
Enter your name

Email
Enter email address

Message
Message

Send Message

About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.

2.4.3. Key Form Components and Elements

- Form Wrapper (`<form>`)
- `<form action="https://api.web3forms.com/submit" method="POST">`:
- The action attribute specifies the endpoint (<https://api.web3forms.com/submit>) for form submissions, in this case, Web3Forms, an API that handles form data.
- The method="POST" attribute sends the form data securely.
- Hidden Access Key (`<input type="hidden">`)
- `<input type="hidden" name="access_key" value="58b08465-23c3-495e-8e9d74359a2f78ab">`:
- This hidden field contains the access_key, necessary for authenticating the form submission on Web3Forms.
- Form Fields
- Name Field (`<input type="text">`):
- `<input type="text" id="name" name="name" placeholder="Enter your name" required>`: Collects the user's name. The required attribute ensures the field must be filled out before submission, enhancing form validation.
- Email Field (`<input type="email">`):
- `<input type="email" id="email" name="email" placeholder="Enter email address" required>`: An email field that uses the type="email" attribute to check for valid email syntax, offering client-side validation.
- Message Field (`<textarea>`):
- `<textarea rows="8" id="message" name="message" placeholder="Message" required></textarea>`: A multi-line input for users to type their message. The rows="8" attribute sets its initial height, and required ensures a message must be entered.
- Submit Button (`<button>`)

- <button type="submit" onclick="sendMail(event)" class="hero-btn red-btn">Send Message</button>:
- The type="submit" designates it as a submit button.
- The onclick="sendMail(event)" triggers the sendMail() function when the button is clicked, which likely contains code to process the form data and send the email.
- Additional HTML5 Elements Used for Contact Information
- Contact Details Section:
- Icons and Headings: The and <h5> elements provide visual indicators and structure for the contact information (address, email, mobile).
- Address Information:
- Each section is contained within <div> elements, making it visually separated for clear readability.
- JavaScript Integration
- EmailJS Script:
- EmailJS Setup: The <script> in the head section initializes the EmailJS service, which can handle email submissions in the background, making it seamless for users.

2.4.4. Code in Contact me page

Advanced Client Side Development-Nimesha

```

1 <html lang="en">
2   <body>
3     <!-- contact us -->
4     <br>
5     <br>
6     <br>
7     <section class="contact-us">
8       <div class="row">
9         <div class="contact-col">
10           <div>
11             <span>
12               <h5>Send me a Message</h5>
13             </span>
14           </div>
15           
16           <span>
17             <h5>HOME</h5>
18             <p>No.743, Habaraluwewa, Sevanagala. </p>
19           </span>
20         </div>
21         <div>
22           
23           <span>
24             <h5>EMAIL</h5>
25             <p>nimeshasachethani@gmail.com</p>
26           </span>
27         </div>
28         <div>
29           
30           <span>
31             <h5>MOBILE</h5>
32             <p>+(94)71 9023902</p>
33           </span>
34         </div>
35       </div>
36     </div>
37     <div class="contact-col">
38       <form action="https://api.web3forms.com/submit" method="POST">
39         <input type="hidden" name="access_key" value="58b08465-23c3-495e-8e9d-74359a2f78ab">
40         <input type="text" id="name" name="name" placeholder="Enter your name" required>
41       </form>
42     </div>
43   </body>
44 </html>

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF ⓘ HTML ⓘ Go Live ⓘ Prettier

Advanced Client Side Development-Nimesha

```

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta name="viewport" content="width=device-width, initial-scale=1.0">
5     <title>BrainBooster</title>
6     <link rel="stylesheet" href="style.css">
7     <link rel="preconnect" href="https://fonts.googleapis.com">
8     <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
9     <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@100;200;300;400;600;700&display=swap" rel="stylesheet">
10    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@5.15.4/css/fontawesome.min.css">
11
12    <script type="text/javascript">
13      src="https://cdn.jsdelivr.net/npm/@emailjs/browser@4/dist/email.min.js"
14    </script>
15
16    <script type="text/javascript">
17      (function(){
18        emailjs.init("service_ouggity");
19      });
20    </script>
21    <script src="script.js"></script>
22
23
24  </head>
25  <body>
26    <section class="Sub-header">
27      <nav>
28        <a href="home.html"></a>
29        <div class="nav-links" id="navlinks">
30          <i class="fa fa-times" onclick="hideMenu()"/>
31          <ul>
32            <li><a href="home.html">HOME</a></li>
33            <li><a href="about.html">ABOUT</a></li>
34            <li><a href="project.html">PROJECT</a></li>
35            <li><a href="contact.html">CONTACT</a></li>
36          </ul>
37        </div>
38        <i class="fa fa-bars" onclick="showMenu()"/>
39      </nav>
40      <h1>Contact Me</h1>
41    </section>
42    <!-- contact us -->
43    <br>
44    <h2>

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF ⓘ HTML ⓘ Go Live ⓘ Prettier

The screenshot shows a code editor interface with the title bar "Advanced Client Side Development-Nimesha". The left sidebar lists files: home.html, about.html, project.html, and contact.html (which is currently selected). The main editor area contains the following HTML code:

```
<? contact.html > ...
2   <html lang="en">
3     <body>
4       <section class="contact-us">
5         <div class="row">
6           <div class="contact-col">
7             <form action="https://api.web3forms.com/submit" method="POST">
8               <input type="hidden" name="access_key" value="58b08465-23c3-495e-0e9d-74359a2f78ab">
9
10              <label for="name">Name</label>
11              <input type="text" id="name" name="name" placeholder="Enter your name" required>
12              <label for="email">Email</label>
13              <input type="email" id="email" name="email" placeholder="Enter email address" required>
14              <label for="message">Message</label>
15              <textarea rows="5" id="message" name="message" placeholder="Message" required></textarea>
16              <button type="submit" onclick="sendMail(event)" class="hero-btn red-btn">Send Message</button>
17
18            </form>
19          </div>
20        </div>
21      </section>
22
23      <!-- footer -->
24      <section class="footer">
25        <h4>About This Assignment</h4>
26        <p>This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module.<br> It showcases my skills in HTML5, CSS3, and JavaScript. The website features a responsive design, a contact form, and a footer section with social media links and a copyright notice. The code is well-structured with semantic HTML elements and valid syntax. I used a combination of inline styles and external CSS files for styling. The contact form uses Web3Forms API to handle submissions. The footer includes a "Done by" section with my name and a link to my GitHub profile. The overall design is clean and modern, reflecting the skills learned in the module. -->
27        <div class="heart">
28          <p>Done by: Nimesha Sachethani.</p>
29        </div>
30      </section>
31
32    </body>
33  </html>
```

The status bar at the bottom shows: Line 1, Col 1 | Spaces: 4 | UTF-8 | CRLF | HTML | Go Live | Preview.

3. CSS Stylesheet

3.1. CSS Styling Overview

- Explanation of the single CSS file structure and design choices.

This CSS file applies consistent styling across the site by targeting universal selectors, classbased selectors, and media queries. The file is organized into sections targeting specific parts of the layout, like navigation, text boxes, and responsive design for screens under 700px wide. The design prioritizes a clean, modern look with a balance of color, text styling, and layout responsiveness to ensure smooth navigation and user experience.

3.2 Fonts & Colors

- Describe your use of custom fonts and color schemes, including any semi-transparent colors.

Custom Fonts: You used the 'Poppins' font, imported from Google Fonts, to provide a modern, sans-serif look that enhances readability and a clean aesthetic.

Color Scheme: The primary color scheme includes shades of red (#f44336) as accents, contrasted against a black and white background, allowing elements to stand out.

Semitransparent backgrounds (such as rgba(36, 36, 38, 0.7)) add a subtle overlay effect, enhancing readability over background images without entirely obscuring them.

3.3 CSS Features Used

- Attribute Selectors - Show where you used at least two and explain their function.
- Pseudo-Elements and Generated Content - Explain any use of ::before or ::after.

- User Action Pseudo Classes - Provide examples of hover effects or focus states used in the design.

Specificity Considerations - Outline how you managed specificity with styles.

- Attribute Selectors:
- Used @media (max-width: 700px) to create a responsive design that adjusts the navigation and text size for smaller screens.
- nav .fa selector is used to toggle icon visibility on different screen sizes.
- Pseudo-Elements and Generated Content:
- The ::after pseudo-element is applied to navigation items (.nav-links ul li::after) to create an underline effect on hover. This helps indicate active interaction with navigation links, contributing to a dynamic UI.

- User Action Pseudo Classes:
- Hover effects are widely used in elements like .hero-btn:hover and .nav-links ul li:hover::after, where the background color and border change to visually indicate an active selection.
- .layer:hover darkens the background to emphasize images and increase readability for overlay text.
- Specificity Considerations:
- You managed specificity by primarily using class selectors, ensuring styles are consistently applied. For responsive styling, media queries target specific sections to adjust font sizes, spacing, and display properties without overwriting desktop styles.

3.4 Other CSS Elements

- Discuss your use of shadows, text effects, borders, rounded corners, gradients, transforms, transitions, and animations.

Shadows and Text Effects: Box shadows (.course-col:hover) add depth to course columns, creating a subtle floating effect on hover, while text-shadow effects bring emphasis to headers.

Borders & Rounded Corners: Borders and rounded corners (e.g., border-radius: 10px;) are applied to enhance elements like images, columns, and buttons, giving a softer, more visually appealing look.

Gradients: Linear gradients are applied to backgrounds like .header and .cta to add visual depth and create smooth transitions between overlay colors and images.

Transforms & Transitions: Transitions (e.g., transition: 0.5s;) ensure smooth, gradual changes on hover, especially for backgrounds and box shadows. Transformations (transform:

`translateX(-50%)`) position text overlays dynamically within the page, making them more responsive and centered.

Animations: Subtle animations, such as background and hover effects in `.layer:hover`, improve the user experience by providing feedback and drawing attention to interactive elements.

3.5. CSS Code

```
# style.css > ⚙
1  {
2    margin: 0;
3    padding: 0;
4    font-family: 'Poppins', sans-serif;
5  }
6 .header{
7   min-height: 100vh;
8   width: 100%;
9   background-image: linear-gradient(rgba(36, 36, 38, 0.7),rgba(16, 32, 96, 0.7)),url(images/college-students.jpg);
10  background-position: center;
11  background-size: cover;
12  position: relative;
13 }
14 nav{
15   display: flex;
16   padding: 2% 6%;
17   justify-content: space-between;
18   align-items: center;
19 }
20 nav img{
21   width: 80px;
22 }
23 .nav-links{
24   flex: 1;
25   text-align: right;
26 }
27 .nav-links ul li{
28   list-style: none;
29   display: inline-block;
30   padding: 8px 12px;
31   position: relative;
32 }
33 .nav-links ul li a{
34   color: #fff;
35   text-decoration: none;
36   font-size: 13px;
37 }
38 .nav-links ul li a::after{
39   content: '';
40   width: 0%;
41   height: 2px;
42   background: #f44336;
43   display: block;
44   margin: auto;
```

```
# style.css > *  
38 .nav-links ul li::after{  
46 }  
47 .nav-links ul li:hover::after{  
48 width: 100%;  
49 }  
50 .text-box{  
51 width: 90%;  
52 color: #ffff;  
53 position: absolute;  
54 top: 40%;  
55 left:5%;  
56 transform: translation(-50%,-50%);  
57 text-align: center;  
58 }  
59 .text-box h1{  
60 font-size: 62px;  
61 }  
62 .text-box p{  
63 margin: 10px 0 40px;  
64 font-size: 14px;  
65 color: #ffff;  
66 }  
67 .hero-btn{  
68 display: inline-block;  
69 text-decoration: none;  
70 color: #ffff;  
71 border: 1px solid #ffff;  
72 padding: 12px 34px;  
73 font-size: 13px;  
74 background: transparent;  
75 position: relative;  
76 cursor: pointer;  
77 }  
78 .hero-btn{  
79 display: inline-block;  
80 text-decoration: none;  
81 color:#ffff;  
82 border: 12px 34px;  
83 font-size: 13px;  
84 background: transparent;  
85 position: relative;  
86 cursor: pointer;  
87 }  
88 }
```

Advanced Client Side Development-Nimesha

```

# style.css > ↗
78 .hero-btn{
80   background-color: transparent;
81   border: none;
82   position: relative;
83   cursor: pointer;
84 }
85 .hero-btn:hover{
86   border: 1px solid #f44336;
87   background: #f44336;
88   transition: 1s;
89 }
90 nav .fa{
91   display: none;
92 }
93 @media (max-width: 700px) {
94   /* Text Box */
95   .text-box h1 {
96     font-size: 20px;
97   }
98   /* Navigation */
99   .nav-links ul li {
100    display: block;
101    margin: 10px 0; /* Added margin for better spacing */
102  }
103  .nav-links {
104    position: fixed;
105    top: 0;
106    right: -200px;
107    width: 200px;
108    height: 100vh;
109    background-color: #f44336;
110    z-index: 2;
111    text-align: left;
112    transition: right 1s ease; /* Smoother transition */
113  }
114  /* Font Awesome Icon */
115  nav .fa {
116    display: block;
117    font-size: 22px;
118    color: #fff;
119    margin: 10px;
120    cursor: pointer;
121 }
122 
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗
96 @media (max-width: 700px) {
97   nav .fa {
98     margin: 10px;
99     cursor: pointer;
100 }
101 /* Navigation Links */
102 .nav-links ul {
103   padding: 30px;
104 }
105 /*-----*/
106 .course{
107   width: 80%;
108   margin: auto;
109   text-align: center;
110   padding-top: 100px;
111 }
112 h1{
113   font-size: 36px;
114   font-weight: 600;
115 }
116 p{
117   color:#777;
118   font-size: 14px;
119   font-weight: 300;
120   line-height: 22px;
121   padding: 10px;
122 }
123 .row{
124   margin-top: 5%;
125   display: flex;
126   justify-content: space-between;
127 }
128 .course-col{
129   flex: 31%;
130   background: #ffff3f3;
131   border-radius: 10px;
132   margin-bottom: 5%;
133   padding: 20px 12px;
134   box-sizing: border-box;
135   transition: 0.5s;
136 }
137 
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗
158 .course-col{
159   box-sizing: border-box;
160   transition: 0.5s;
161 }
162 h3{
163   text-align: center;
164   font-weight: 600;
165   margin: 10px 0;
166 }
167 .course-col:hover{
168   box-shadow: 0 0 20px 0px rgba(0,0,0,0.2);
169 }
170 @media(max-width: 700px){
171   .row{
172     flex-direction: column;
173   }
174 }
175 /*----- campus -----*/
176 .campus{
177   width: 80%;
178   margin: auto;
179   text-align: center;
180   padding-top: 50px;
181 }
182 .campus-col{
183   flex-basis: 32%;
184   border-radius: 10px;
185   margin-bottom: 30px;
186   position: relative;
187   overflow: hidden;
188 }
189 .campus-col img{
190   width: 350px;
191 }
192 .layer{
193   background: transparent;
194   height: 100%;
195   width: 100%;
196   position: absolute;
197   top: 0;
198   left: 0;
199 }
200 .layer{
201   background: transparent;
202   height: 100%;
203   width: 100%;
204   position: absolute;
205   top: 0;
206   left: 0;
207   transition: 0.5s;
208 }
209 .layer:hover{
210   background: rgba(226,0,0,0.7);
211 }
212 .layer h3{
213   width: 100%;
214   font-weight: 500;
215   color: #fff;
216   font-size: 26px;
217   bottom: 0;
218   left: 50%;
219   transform: translateX(-50%);
220   position: absolute;
221   opacity: 0;
222   transition: 0.5s;
223 }
224 .layer:hover h3{
225   bottom: 49%;
226   opacity: 1;
227 }
228 /*----- facilities -----*/
229 .facilities{
230   width: 80%;
231   margin: auto;
232   text-align: center;
233   padding-top: 100px;
234 }
235 .facilities-col{
236   flex-basis: 31%;
237   border-radius: 10px;
238   margin-bottom: 30px;
239   text-align: left;
240 }
241 .facilities-col img{
242   width: 100%;
243   border-radius: 10px;
244 }

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗
200 .layer{
201   width: 100%;
202   position: absolute;
203   top: 0;
204   left: 0;
205   transition: 0.5s;
206 }
207 .layer:hover{
208   background: #fff;
209 }
210 .layer h3{
211   width: 100%;
212   font-weight: 500;
213   color: #fff;
214   font-size: 26px;
215   bottom: 0;
216   left: 50%;
217   transform: translateX(-50%);
218   position: absolute;
219   opacity: 0;
220   transition: 0.5s;
221 }
222 .layer:hover h3{
223   bottom: 49%;
224   opacity: 1;
225 }
226 /*----- facilities -----*/
227 .facilities{
228   width: 80%;
229   margin: auto;
230   text-align: center;
231   padding-top: 100px;
232 }
233 .facilities-col{
234   flex-basis: 31%;
235   border-radius: 10px;
236   margin-bottom: 30px;
237   text-align: left;
238 }
239 .facilities-col img{
240   width: 100%;
241   border-radius: 10px;
242 }

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > # style.css
242 .facilities-col img{
243     width: 100%;
244     border-radius: 10px;
245 }
246 .facilities-col p{
247     padding: 0;
248 }
249 .facilities-col h3{
250     margin-top: 16px;
251     margin-bottom: 15px;
252     text-align: left;
253 }
254 /*----- testimonials -----*/
255 .testimonials{
256     width: 80%;
257     margin: auto;
258     padding-top: 100px;
259     text-align: center;
260 }
261 .testimonial-col{
262     flex-basis: 44%;
263     border-radius: 10px;
264     margin-bottom: 5px;
265     background: #fff3f3;
266     padding: 25px;
267     cursor: pointer;
268     display: flex;
269 }
270 .testimonial-col img{
271     height: 40px;
272     margin-left: 5px;
273     margin-right: 30px;
274     border-radius: 50px;
275 }
276 .testimonial-col p{
277     padding: 0;
278 }
279 .testimonial-col h3{
280     margin-top: 15px;
281     text-align: left;
282 }
283 .testimonial-col .fa{
284     color: #f44336;
285 }
286 @media(max-width: 700px){
287     .testimonial-col img{
288         margin-left: -5px;
289         margin-right: 15px;
290     }
291     .stars img{
292         height: 15px;
293         margin-left: 5px;
294         margin-right: 0px;
295         border-radius: 0px;
296     }
297     /*----- call to action -----*/
298     .cta{
299         margin: 100px auto;
300         width: 80%;
301         background-image: linear-gradient(rgba(0,0,0,0.7),rgba(0,0,0,0.7)),url(images/coding.jpg);
302         background-position: center;
303         background-size: cover;
304         border-radius: 10px;
305         text-align: center;
306         padding: 100px 0;
307     }
308     .cta h1{
309         color: #ffff;
310         margin-bottom: 40px;
311         padding: 0;
312     }
313     @media(max-width: 700px){
314         .cta h1{
315             font-size: 24px;
316         }
317     }
318 }
319 
```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗*
317 @media(max-width: 700px){
318   .cta {
319     }
320   }
321   /*----- footer -----*/
322   .footer{
323     width: 100%;
324     text-align: center;
325     padding: 30px 0;
326   }
327   .footer{
328     margin-bottom: 25px;
329     margin-top: 20px;
330     font-weight: 600;
331   }
332   .icons img{
333     height: 20px;
334     margin-left: 5px;
335     margin-right: 10px;
336     border-radius: 0%;
337   }
338   .heart img{
339     height: 15px;
340     margin-left: 5px;
341     margin-right: 10px;
342     border-radius: 0%;
343   }
344   }
345   /*----- about us page -----*/
346   .Sub-header{
347     height: 50vh;
348     width: 100%;
349     background-image: linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(images/mac.jpg);
350     background-position: center;
351     background-size: cover;
352     text-align: center;
353     color: #fff;
354   }
355   .Sub-header h1{
356     margin-top: 50px;
357   }
358   .about-us{
359     width: 80%;
360   }
361   .about-us h1{
362     margin-top: 50px;
363   }
364   .about-us{
365     width: 80%;
366     margin: auto;
367     padding-top: 80px;
368     padding-bottom: 50px;
369   }
370   .about-col{
371     flex-basis: 48%;
372     padding: 30px 2px;
373   }
374   .about-col img{
375     width: 100%;
376   }
377   .about-col h1{
378     padding-top: 0;
379   }
380   .about-col p{
381     padding: 15px 0 25px;
382   }
383   .red-btn{
384     border: 1px solid #f44336;
385     background: transparent;
386     color: #fff;
387   }
388   .red-btn:hover{
389     color: #fff;
390   }
391   /*----- blog content -----*/
392   .blog-content{
393     width: 80%;
394     margin: auto;
395     padding: 60px 0;
396   }
397   .blog-left{
398     flex-basis: 65%;
399   }
400   .blog-right img{
401     width: 130%;
402   }

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗*
357 .Sub-header h1{
358   margin-top: 50px;
359 }
360 .about-us{
361   width: 80%;
362   margin: auto;
363   padding-top: 80px;
364   padding-bottom: 50px;
365 }
366 .about-col{
367   flex-basis: 48%;
368   padding: 30px 2px;
369 }
370 .about-col img{
371   width: 100%;
372 }
373 .about-col h1{
374   padding-top: 0;
375 }
376 .about-col p{
377   padding: 15px 0 25px;
378 }
379 .red-btn{
380   border: 1px solid #f44336;
381   background: transparent;
382   color: #fff;
383 }
384 .red-btn:hover{
385   color: #fff;
386 }
387 /*----- blog content -----*/
388 .blog-content{
389   width: 80%;
390   margin: auto;
391   padding: 60px 0;
392 }
393 .blog-left{
394   flex-basis: 65%;
395 }
396 .blog-right img{
397   width: 130%;
398 }

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗*
396   .blog-left{
397     }
398   .blog-right img{
399     width: 130%;
400   }
401   .blog-left h2{
402     color: #222;
403     font-weight: 600;
404     margin: 30px 0;
405   }
406   .blog-left p{
407     color: #999;
408     padding: 0;
409   }
410   .blog-right{
411     flex-basis: 32%;
412   }
413   .blog-right h3{
414     background: #f44336;
415     color: #fff;
416     padding: 7px 0;
417     font-size: 16px;
418     margin-bottom: 20px;
419   }
420   .blog-right div{
421     display: flex;
422     align-items: center;
423     justify-content: space-between;
424     color: #555;
425     padding: 8px;
426     box-sizing: border-box;
427   }
428   .comment-box{
429     border: 1px solid #ccc;
430     margin: 50px 0;
431     padding: 10px 20px;
432   }
433   .comment-box h3{
434     text-align: left;
435   }
436   .comment-form input, .comment-form textarea{
437     width: 100%;
438     padding: 10px;
439     margin: 15px 0;
440   }

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

Advanced Client Side Development-Nimesha

```

# style.css > ↗*
437   .comment-form input, .comment-form textarea{
438     padding: 15px 0;
439     box-sizing: border-box;
440     border: none;
441     outline: none;
442     background: #f0f0f0;
443   }
444   .comment-form button{
445     margin: 10px 0;
446   }
447   @media(max-width: 700px){
448     .sub-header h1{
449       font-size: 24px;
450     }
451   }
452   /*----- contact us page -----*/
453   .location{
454     width: 80%;
455     margin: auto;
456     padding: 80px 0;
457   }
458   .location iframe{
459     width: 100%;
460   }
461   .contact-us{
462     width: 80%;
463     margin: auto;
464   }
465   .contact-col{
466     flex-basis: 100%;
467     margin-bottom: 20px;
468   }
469   .contact-col div{
470     display: flex;
471     align-items: center;
472     margin-bottom: 40px;
473   }
474   .contact-col img{
475     height: 35px;
476     margin-left: 10px;
477     margin-right: 10px;
478   }

```

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } CSS Go Live Preview

```
# style.css > $*  
477 }  
478 .contact-col img{  
479     height: 35px;  
480     margin-left: 10px;  
481     margin-right: 10px;  
482     border-radius: 0%;  
483 }  
484 .contact-col div P{  
485     padding: 0;  
486 }  
487 .contact-col div h5{  
488     font-size: 20px;  
489     margin-bottom: 5px;  
490     color: #e555;  
491     font-weight: 400;  
492 }  
493 .contact-col input, .contact-col textarea{  
494     width: 100%;  
495     padding: 15px;  
496     margin-bottom: 17px;  
497     outline: none;  
498     border: 1px solid #cccc;  
499     box-sizing: border-box;  
500 }  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512
```

4. Responsiveness and Media Queries

4.1. Screenshots of the site of on different devices or screen sizes.

The image displays a 4x3 grid of screenshots from a responsive website, illustrating how the layout adapts to different devices and screen sizes. The columns represent different screen widths, and the rows represent different content sections.

- Row 1:** A large screenshot showing the homepage with a graduation photo header, a "Welcome to My Portfolio" section, and a "Higher Education" section.
- Row 2:** A screenshot of the "Programming Skills" section, which includes a sub-section for "Web Development".
- Row 3:** A screenshot of the "Key Skills" section, which includes sub-sections for "Strong Communication and Interpersonal Skills" and "Social Media Links".
- Row 4:** A screenshot of the "About This Assignment" section, which includes a "GitHub" link and a "Collaborations" section.

Higher Education
Currently pursuing a BEng (Hons) Software Engineering degree at the Informatics Institute of Technology (II), affiliated with the University of Westminster. Completed multiple years, mastering subjects like machine learning, algorithms, and software development.

Welcome to My Portfolio
Name: Nimesha Sachethani
Title: Software Engineer | Driven by Technology | Continuous Learner

Welcome to my portfolio! I'm a passionate software engineer committed to continuous learning and growth. Here, you'll find an overview of my skills, achievements, and the exciting projects I've worked on. My goal is to leverage my technical expertise and creativity to deliver impactful solutions and exceed expectations.

Visit Us To More

Programming Skills
Proficient in developing responsive web applications with modern technologies, building robust backend systems, and managing optimized databases to ensure performance and data integrity.

Web Development
Skilled in building responsive and visually appealing websites using modern technologies like HTML, CSS, JavaScript, and frameworks such as React.js and Bootstrap. I create user-friendly web applications that focus on performance and accessibility.

Backend Development
Proficient in backend technologies, including C#, Python, and ASP.NET, to build robust and scalable server-side applications. I ensure seamless

Strong Communication and Interpersonal Skills
Excellent in conveying ideas clearly and building positive relationships with team members and stakeholders.

Social Media Links
Stay connected with my professional journey and projects through these platforms:

LinkedIn
Connect with me on LinkedIn to view my professional experience, achievements, and networking activities.

For more information or to discuss potential collaborations, feel free to connect with me

GitHub
work in software development and collaborative projects.

COLLABORATIONS, FEEL FREE TO CONNECT WITH ME

About This Assignment
This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, for part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.



About Me

Software Development I:
* Mathematics for Computing
* Computer System Fundamentals

★ Completed Second Year
* Software Development II
* Web Design and Development

★ High School

★ Bodhiraja College ~ Embilipitiya
* G.C.E Ordinary Level
* G.C.E Advanced Level

Education

★ BEng (Hons) Software Engineering, Informatics Institute of Technology (IIT), University of Westminster (UK)

★ Completed First year
* Software Development I

EXPLORE NOW



Personal Profile Statement

★ I am a highly driven, self-motivated software engineer committed to continuous learning and professional growth. I leverage my technical skills and knowledge to contribute effectively to organizational success, striving to deliver impactful solutions and exceed expectations.



About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.

About This Assignment

This website is part of my coursework for the University of



Movie Booking System: Java Console Application

November 2021

During my Software Development I module, I developed a Java-based movie booking system. The project allowed users to book seats for a movie with real-time seat availability notifications. If a seat was already booked, the system would immediately notify the user, ensuring no double bookings.

The application featured a payment option, enabling users to pay for their tickets after selecting a movie. Upon successful payment, the system would print a ticket with all necessary details. I also implemented validation checks throughout the process, ensuring a smooth user experience.

This project was entirely console-based but demonstrated key principles of seat management, user interaction, and transaction handling. Although simple, it functioned well and marked an important step in my journey as a software developer.

Mathematics for Computing: Logic Gates and IP Addresses

November 2021

In the Mathematics for Computing module, I gained valuable knowledge in foundational concepts like logic gates and IP addressing. This course emphasized problem-solving skills, with a focus on understanding how logic gates function to perform calculations and operations in digital circuits. We also explored IP addresses, learning how to calculate and assign them efficiently within network structures.

This module sharpened my analytical abilities and deepened my understanding of how mathematical principles are applied in computing.

Software Development II (November 2022): Java OOP

Coursework and Career Impact

In the Software Development II coursework, I developed key skills that are crucial for a successful career in technology. I mastered advanced OOP concepts such as inheritance, polymorphism, and encapsulation, which enabled me to create scalable systems. Additionally, I



About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.



Contact Me

Send me a Message

HOME
No.743, Habaraluwewa, Sevanagala.

EMAIL

EMAIL nimeshasachethani@gmail.com

MOBILE +(94)71 9023902

Name

Email

Message

Message

Send Message

About This Assignment

This website is part of my coursework for the University of Westminster's "Advanced Client-Side Development" module. It showcases my skills in HTML5, CSS3, and responsive design, forming part of my portfolio for an in-class test assessment.

Done by: Nimesha Sachethani.

4.2. Explanation of media query setup and specific CSS properties that change for mobile views.

Media Query code

```
@media (max-width: 700px) {  
    /* Text Box */ .text-  
    box h1 {      font-size:  
        20px;  
    }  
  
    /* Navigation */ .nav-  
    links ul li {      display:  
        block;  
        margin: 10px 0; /* Added margin for better spacing */  
    }  
  
.nav-links {  
    position: fixed;  
    top: 0;  
    right: -200px;  
    width: 200px;  
    height: 100vh;  
    background-color: #f44336;  
    z-index: 2;      text-  
    align: left;  
    transition: right 1s ease; /* Smoother transition */  
}  
  
/* Font Awesome Icon */  
nav .fa {      display: block;  
    font-size: 22px;      color:  
        #fff;      margin: 10px;  
    cursor: pointer;  
}  
  
/* Navigation Links */  
.nav-links ul {  
    padding: 30px;  
}  
}
```

5. Diary of Project Progress

5.1 Week-by-Week Entries

- Provide diary entries summarizing progress, decisions on layout, fonts, colors, and selectors.
- Each entry should be dated, cover the work completed that week, and provide brief notes on challenges and choices.

October 2

- Progress: Set up initial structure with HTML5 elements and began basic CSS styling for layout consistency.
- Decisions: Chose the Poppins font for a clean, modern look, linking it through Google Fonts.
- Challenges: Decided on using Flexbox for layout, which required experimenting with alignment to suit both desktop and mobile screens.

October 9

- Progress: Focused on the color scheme, refining header and background gradients. Added semi-transparent overlays to enhance readability.
- Decisions: Settled on a red theme (#f44336) for buttons and highlights, balancing it with neutrals for a cohesive style.
- Challenges: Getting hover effects to look smooth and intuitive. Resolved by applying transition effects on buttons.

October 18

- Progress: Implemented media queries to adjust layout for smaller screens, ensuring text boxes and navigation respond well on mobile.
- Decisions: Adjusted font sizes and padding within media queries for better readability on mobile. Increased padding for touch-friendly navigation.
- Challenges: Managing specificities as styles became complex with more selectors. Created classes for specific mobile adjustments.

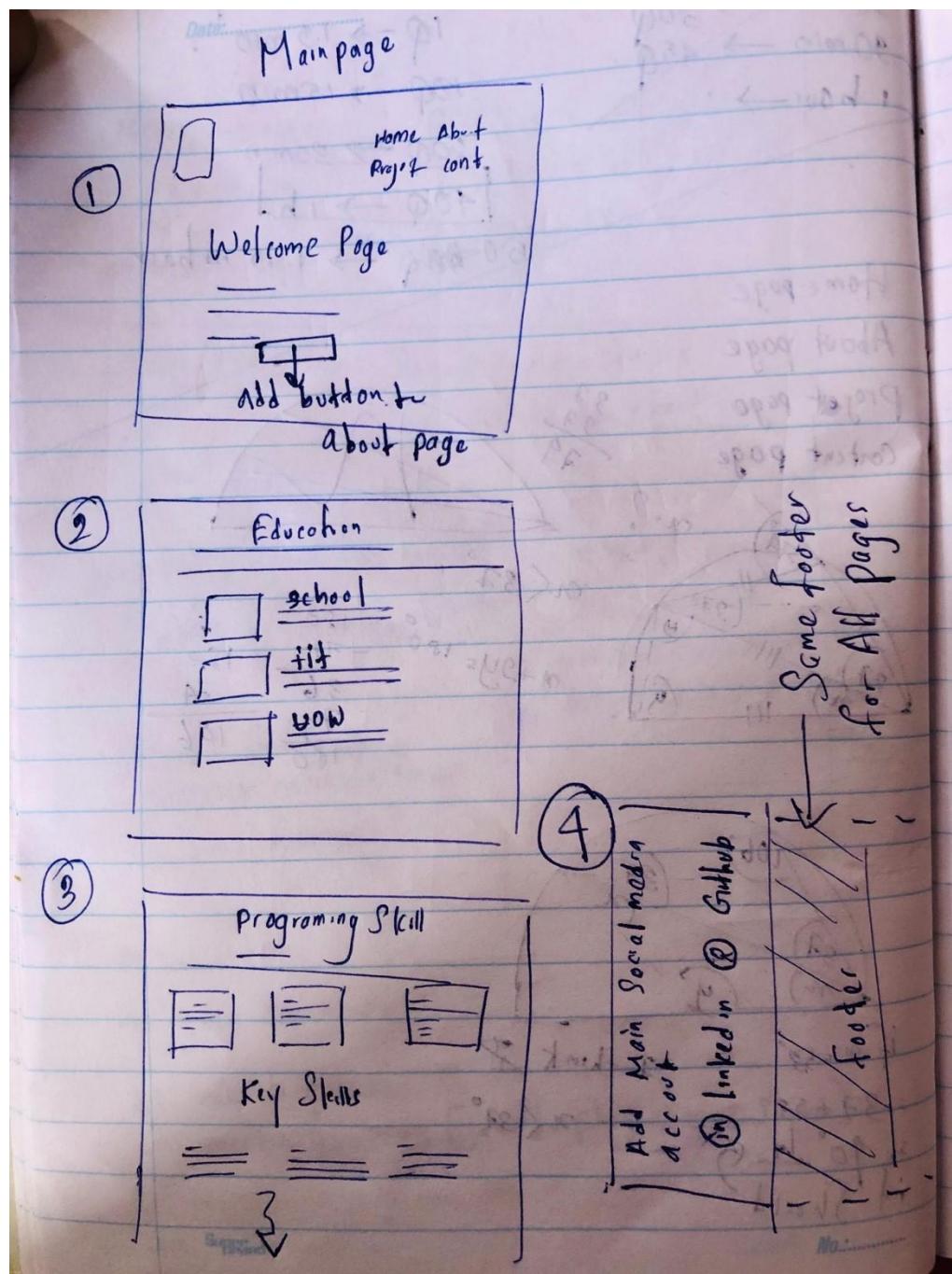
October 25

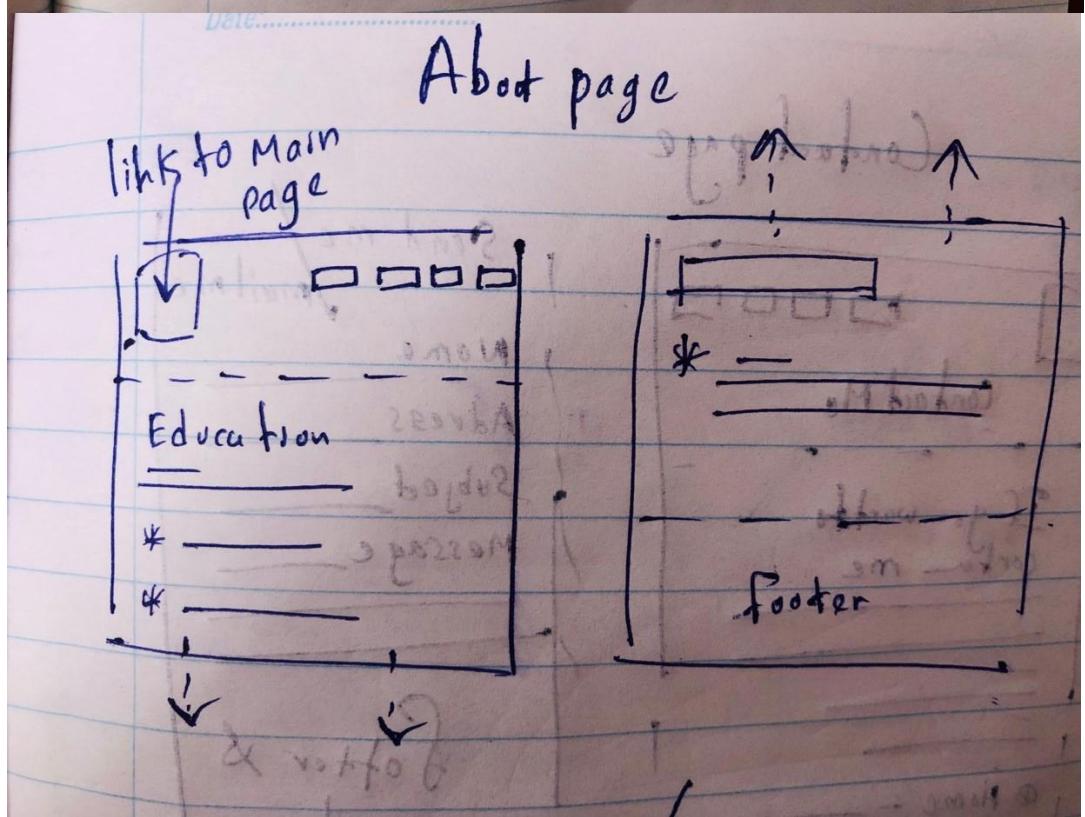
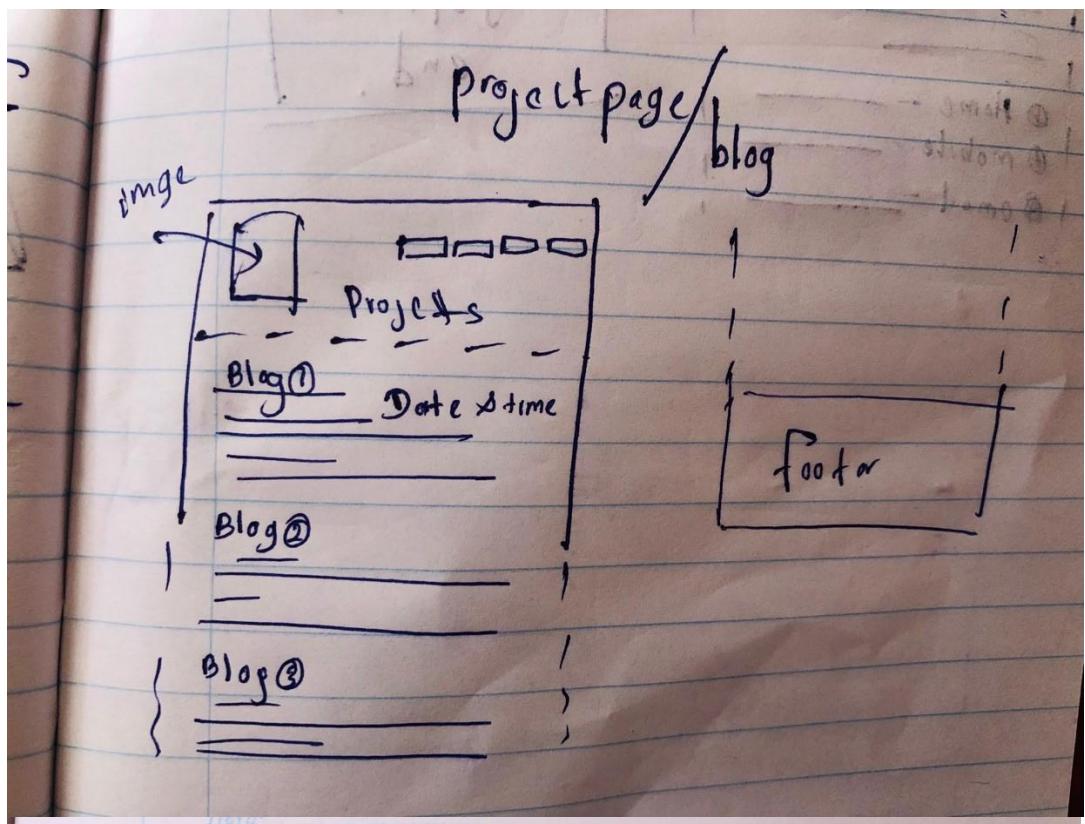
- Progress: Finalized page layouts and included all content. Added animations for image hover effects and button transitions.

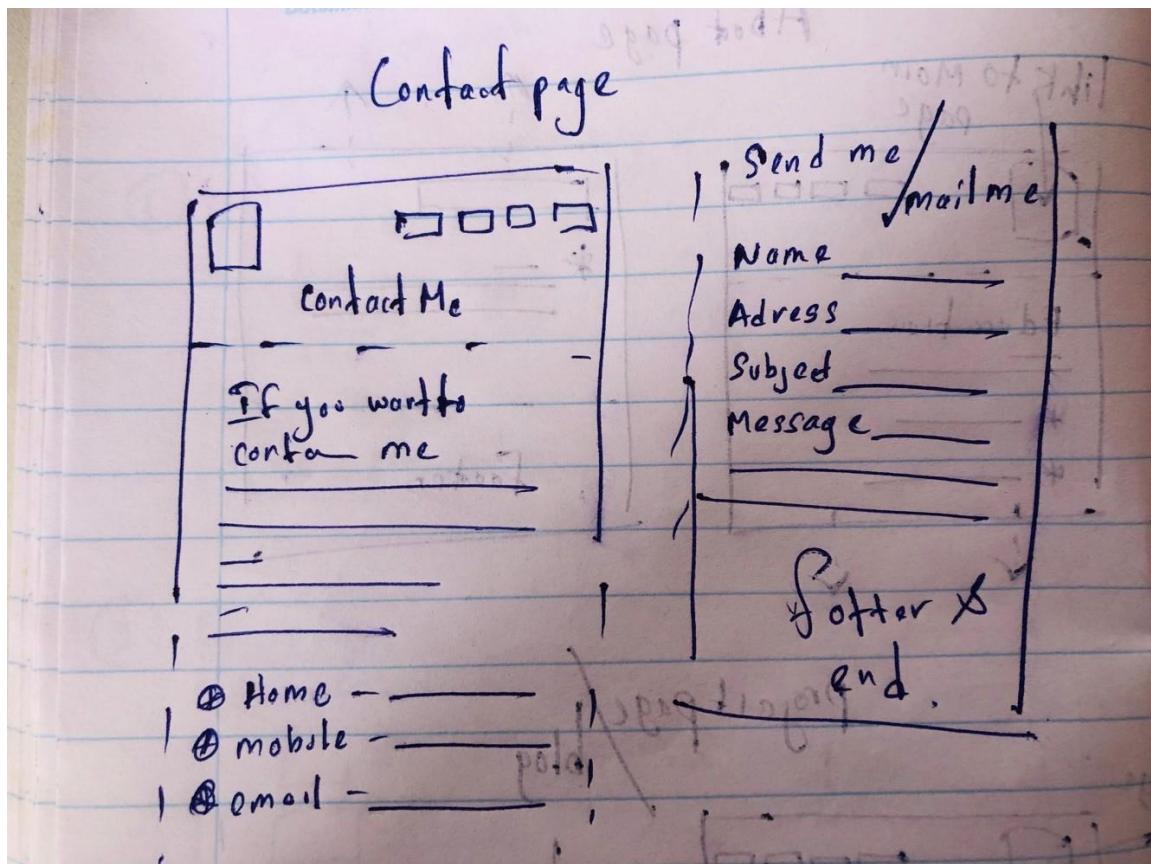
- Decisions: Opted for rounded corners and soft shadows on boxes to maintain a modern look.
- Challenges: Ensuring animations worked seamlessly across browsers.

5.2. Hand drawing progress

Before Doing coding part







6. Conclusion

This project provided a comprehensive experience in building a responsive and visually cohesive website from the ground up. Through the use of HTML5, CSS3, and responsive design principles, I was able to create an engaging, user-friendly layout that adapts well across devices. Choosing appropriate fonts, colors, and CSS effects like gradients, transitions, and hover animations enhanced the site's aesthetic while keeping it functional and accessible.

The project also reinforced the importance of planning and documenting progress, as weekly diary entries allowed me to reflect on design choices, challenges, and solutions. Overall, this project has deepened my understanding of front-end development, strengthened my skills in CSS, and prepared me for future web design challenges where both creativity and functionality are crucial.

7.Appendices

7.1. Appendix A: Screenshots

1.Main Page

- Screenshot showing the overall layout, including header, navigation, hero section, and footer design.
- Highlight of responsive adjustments on mobile view.

2.About Page

- Detailed screenshot of layout structure, showcasing the team or personal introduction section.
- Illustration of transitions and color overlay effects.

3.Projects/Blog Page

- Capture of the grid layout used for projects or blog entries.
- Zoomed-in view showing hover effects and text animations.

4.Contact Page

- Screenshot of form elements, custom styles, and responsive alignment. - Example of real-time validation feedback and button hover effect.

7.2. Appendix B: Resources

1.Color Schemes and Fonts

- Google Fonts: Poppins, selected for its modern, clean look and versatility across headers and body text.
- Color Palette: Red accent color (#f44336) with complementary grays and offwhites, chosen for readability and visual contrast.

2.CSS Animations and Transitions

- References to tutorials and documentation that guided the use of transitions and animations:

- [MDN Web Docs on CSS Transitions](https://developer.mozilla.org/enUS/docs/Web/CSS/CSS_Transitions)
- [CSS Tricks for Gradient Backgrounds](<https://css-tricks.com/css3-gradients/>)

3. Media Queries

- Documentation on using `@media` for responsive design and mobile-friendly adjustments:
- [CSS Tricks on Media Queries](<https://css-tricks.com/snippets/css/media-queries-for-standard-devices/>)
- [W3Schools Media Query Tutorial](https://www.w3schools.com/css/css_rwd_mediaqueries.asp)

4. Form Validation and JavaScript Integration

- Email.js library for form submissions and validation.
- [Email.js Documentation](<https://www.emailjs.com/docs/>)

8. References

- Google Fonts: Poppins(<https://fonts.google.com/specimen/Poppins>) – Selected for its modern, clean aesthetic, suitable for headers and body text.
- Color Palette Tool(<https://coolors.co/>) – Used to find complementary colors for the design's primary and accent tones.
- MDN Web Docs on CSS Transitions(https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Transitions) – Resource on implementing CSS transitions and easing effects.
- CSS Tricks: Gradient Backgrounds(<https://css-tricks.com/css3-gradients/>) – Guide on creating gradient backgrounds with CSS for visual depth.
- CSS Tricks: Media Queries(<https://css-tricks.com/snippets/css/media-queries-forstandard-devices/>) – Overview of media query options for responsive design.
- W3Schools: Media Query Tutorial(https://www.w3schools.com/css/css_rwd_mediaqueries.asp) – Basic tutorial on setting up responsive designs using media queries.
- Email.js Documentation(<https://www.emailjs.com/docs/>) – Documentation on using Email.js for handling form submissions and validation.