

PROJECT 1: CREATION OF SINGLE PAGE WEBSITE

ABSTRACT:

This project focuses on developing a single-page portfolio website using HTML and CSS to showcase personal and professional details in a visually appealing manner. The website includes sections such as About Me, Skills, Projects, Contact Information, and a responsive design to ensure compatibility across various devices.

CSS is utilized for styling, layout structuring, and animations to enhance user experience. CSS (Cascading Style Sheets) is also used to style and design the layout of web pages. It controls the visual appearance of the HTML content, allowing you to manipulate things like colours, fonts, spacing, and overall layout.

My project is designed with simplicity and user-friendliness in mind, ensuring an intuitive experience for users. The interface is clean, straightforward, and easy to navigate, requiring little to no learning curve. All features are clearly accessible, allowing users to complete tasks efficiently without confusion or frustration. By focusing on ease of use and accessibility, the project offers a seamless experience, making it suitable for users of all skill levels.

Future improvements may include integrating JavaScript to enhance interactivity, allowing for dynamic content updates and smoother user interactions. This will enable features like real-time data updates, more responsive design elements, and interactive components that adapt based on user input. Such enhancements will further elevate the user experience, making the project more engaging and responsive to the needs of its audience.

OBJECTIVE:

The primary objective of this project is to develop a single-page portfolio website using HTML and CSS to effectively showcase personal and professional information in a well-structured, visually appealing format.

The website will act as an online presence, emphasizing key skills, accomplishments, and projects, and will serve as a digital resume for potential employers or clients.

The design will focus on clarity and simplicity, allowing users to easily navigate through different sections while highlighting the most important aspects of the portfolio.

A major priority is ensuring responsiveness, so the website adapts seamlessly to different screen sizes and devices.

The clean user interface will provide a smooth browsing experience, prioritizing usability and readability.

By focusing on both aesthetics and functionality, this portfolio will create a lasting impression and serve as an efficient tool for building connections with professionals, showcasing expertise, and attracting new opportunities in a highly accessible and engaging manner.

INTRODUCTION:

- NAME: Swara Jadhav
- EMAIL ID: swara.j@somaiya.edu
- WEB DEVELOPMENT FULLSTACK COURSE

Welcome to my portfolio website! I'm Swara, an aspiring Web Developer with a strong focus on HTML AND CSS.

This site serves as a showcase of my personal and professional journey, highlighting the projects, skills, and experiences that define my work.

Whether you're a potential employer, client, or fellow professional, I invite you to explore my portfolio and learn more about the creative and technical skills I bring to the table.

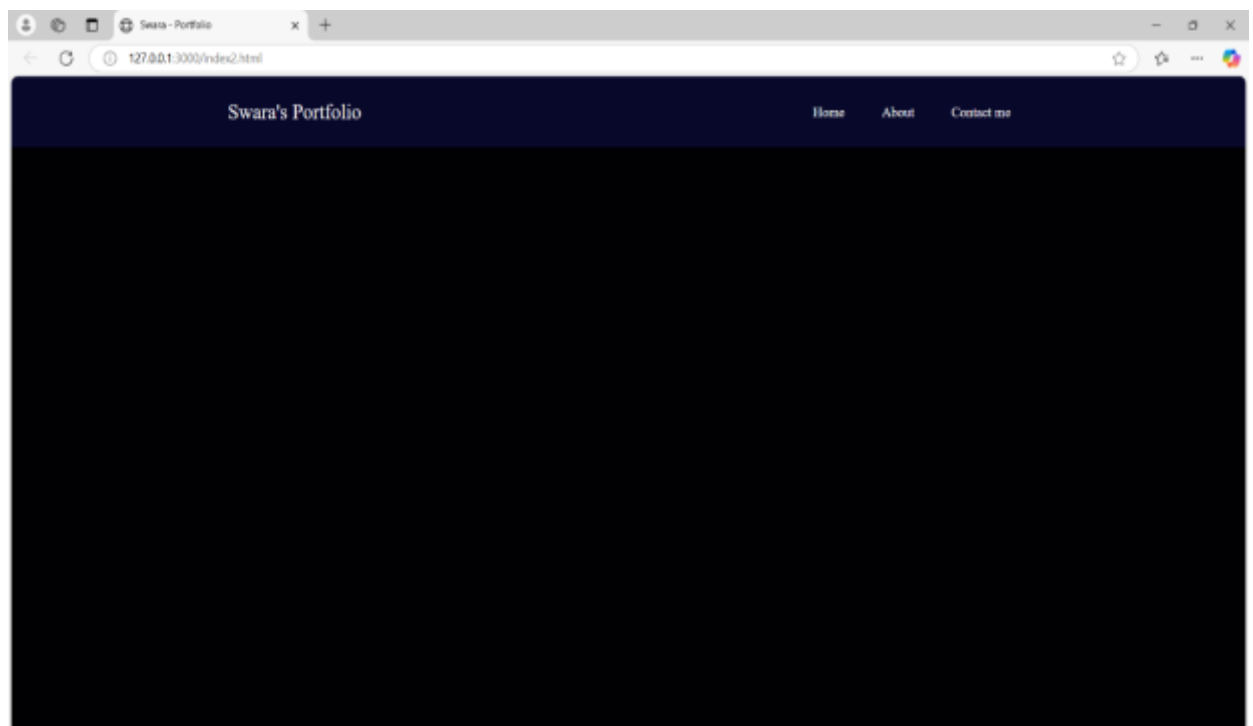
I strive for simplicity and clarity in everything I do, and this website reflects that commitment with a clean, user-friendly design that makes it easy to navigate.

METHODOLOGY:

1. Planning & Design:

- Defined the website's purpose and target audience.
- Created a wireframe and layout structure.
- Selected a suitable colour scheme, fonts, and design elements.

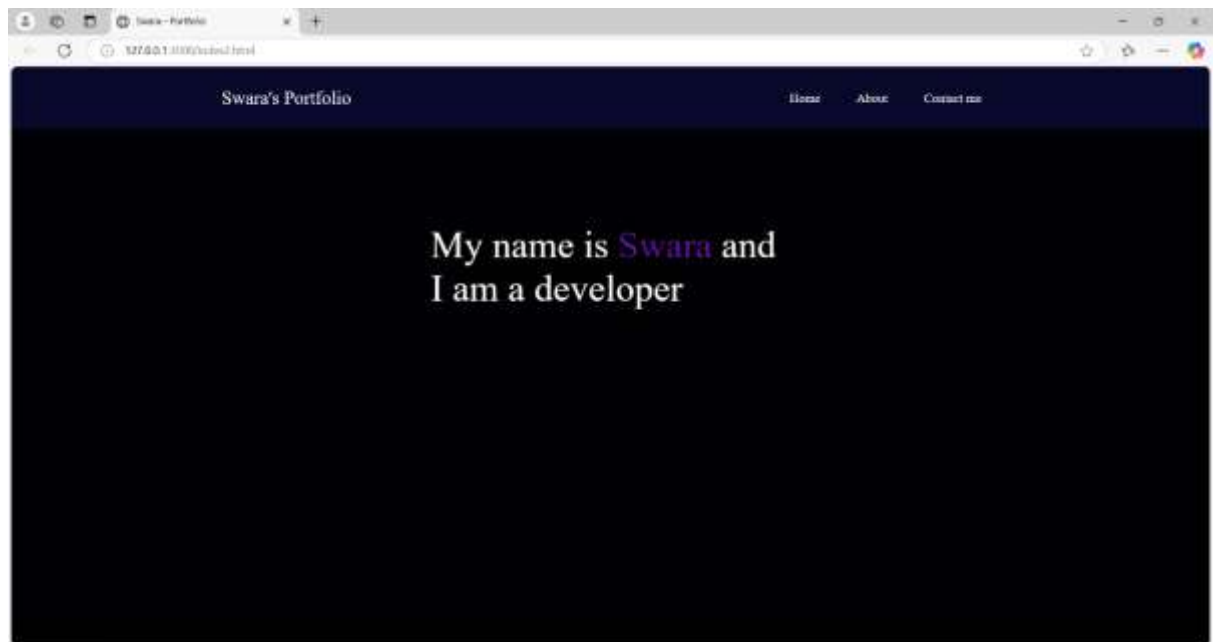
As shown in the image below:



2.Development:

- Structured the website content using HTML, organizing it into distinct sections such as About, Skills, Projects, and Contact. This helped create a logical flow, making it easier for visitors to navigate through the different areas of the site.
- Focused on using HTML elements to organize and present content in a way that was both accessible and visually appealing, ensuring that each section was clearly defined and easy to understand.
- Added a statement in the left section of the layout using a <div> element. This addition was designed to draw attention to key information, providing a clear and concise introduction to the site. It also helped break up the content in a visually engaging way, enhancing the structure of the page.

As shown in the image below:

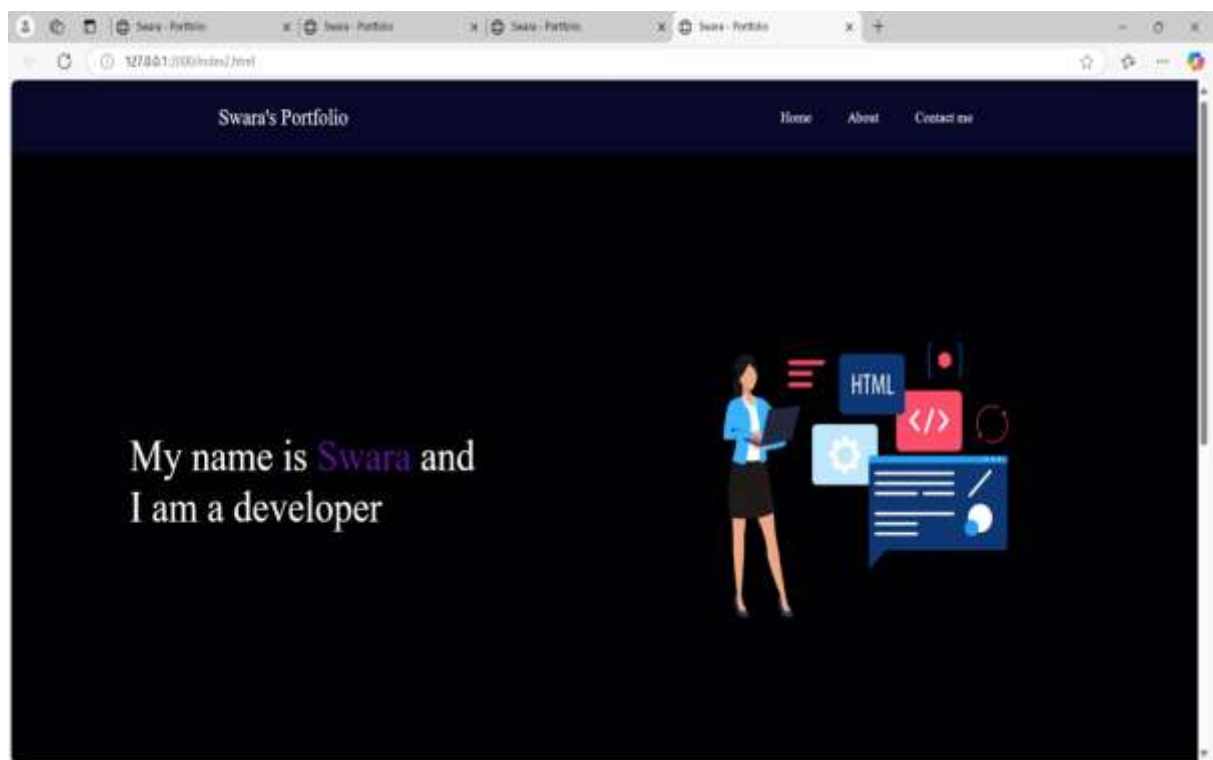


- The overall development focused on ensuring the content was well-organized, easy to read, and seamlessly connected throughout the website.

3.Layout and Media Integration:

- Utilized another <div> for the right side section of the website, which balanced the layout by placing key content and media on opposite sides. This provided a clear separation between text and visuals, improving the overall flow and readability of the page.
- Included an image on the right side using the tag to showcase a woman engaged in coding. This image not only added visual interest but also reinforced the theme of the website, highlighting the connection between technology and creativity. The image further enhanced the design, making it more engaging and relevant to the audience.

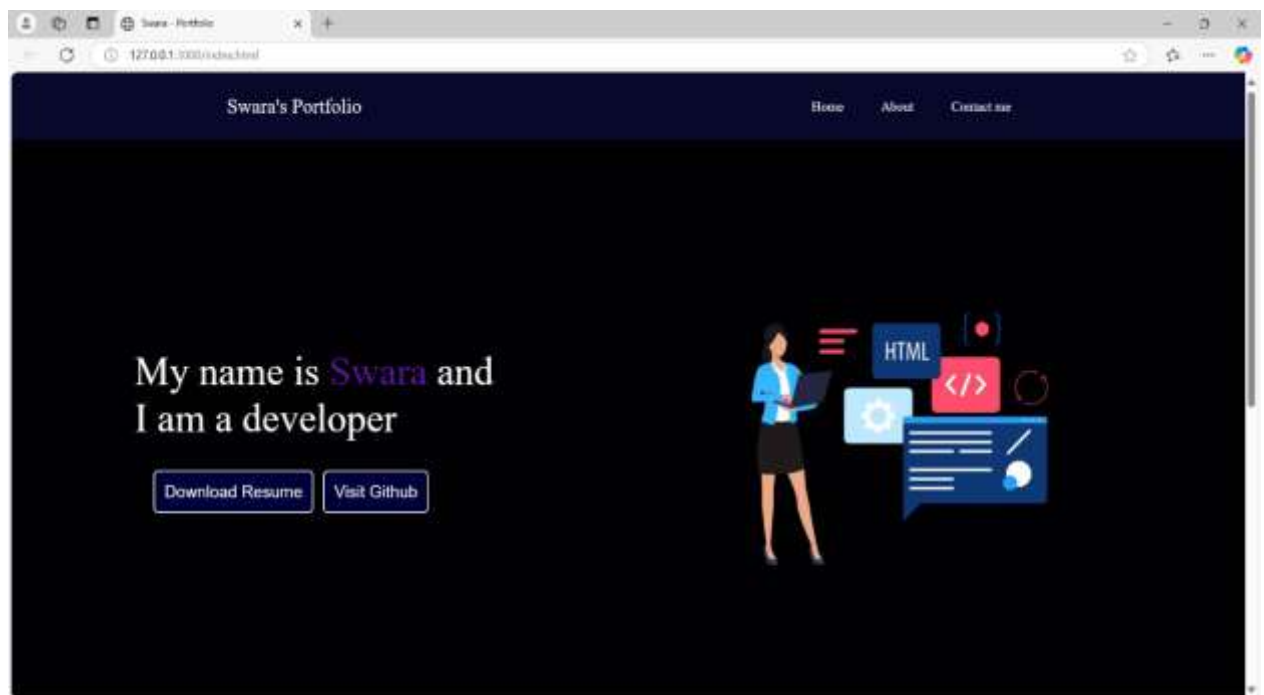
As shown in the image below:



4. Interactive Elements:

- Used the `<button>` tag to create two interactive buttons on the left side of the page, offering users easy access to important actions or links. These buttons were styled with CSS to match the overall design, ensuring they were visually appealing and consistent with the website's aesthetic.
- Through CSS styling, I customized the buttons' appearance, including hover effects, padding, and font adjustments, making them stand out and improving user interaction. The buttons not only enhanced the site's functionality but also contributed to the user-friendly experience by providing clear calls to action.

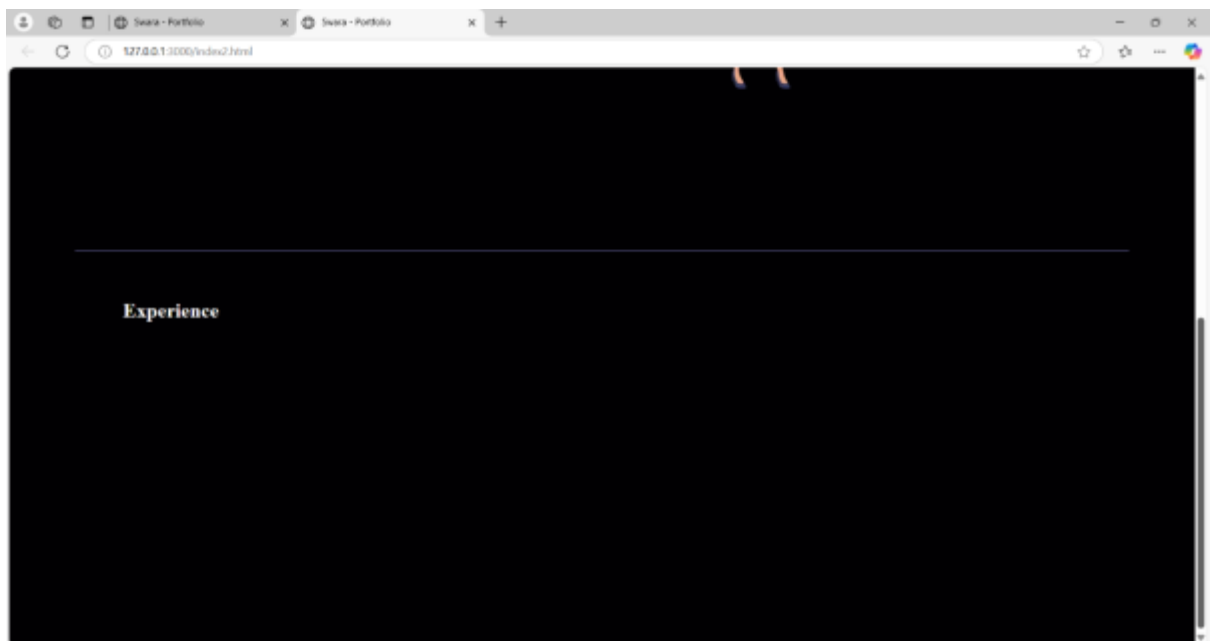
As shown in the image below:



5. Experience Section:

- Designed a dedicated "Experience" section by incorporating a margin line, which visually separated it from the surrounding content. This margin line helped create a clear distinction, allowing users to easily identify and focus on this important section of the portfolio. By adding this space, the overall layout appeared more organized and aesthetically balanced.
- To further emphasize the experience details, I created a box around the content. This box not only provided a structured space for the information but also made the experience stand out as a key highlight of the page. The box was styled with borders and padding, ensuring the text was easy to read and visually engaging. These design choices helped draw attention to the experience section, making it more prominent and giving users a clear, organized view of my professional background.

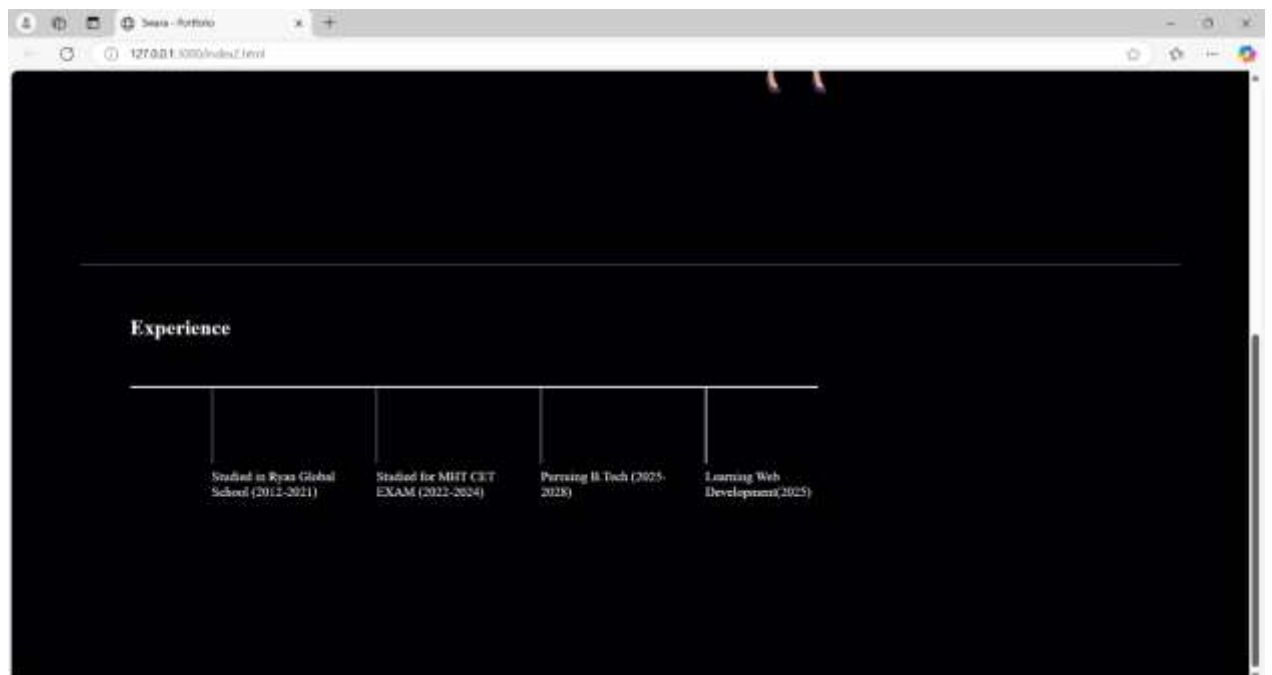
As shown in the image below:



6. Experience Diagram:

- Developed a visually engaging representation of my professional experience in the form of a link diagram. To structure the diagram, I used `<div>` elements along with a vertical `<section>` tag, which allowed me to break down my career path into clear, sequential stages. The diagram visually represented the progression of my experience, creating an easy-to-follow timeline that showcases key milestones and accomplishments throughout my career.
- The `<div>` elements were used to organize each individual stage of my journey, while the vertical `<section>` tag helped maintain a logical, chronological flow, ensuring that each part of the diagram was properly aligned and accessible. The design allowed visitors to easily navigate through my professional growth and understand the evolution of my skills and experiences.
- This link diagram served as an interactive and dynamic way to present my career timeline, adding a unique design element to the portfolio. By presenting my experience visually, I aimed to make it more engaging and memorable for users, ensuring they could quickly grasp the key moments in my professional background.

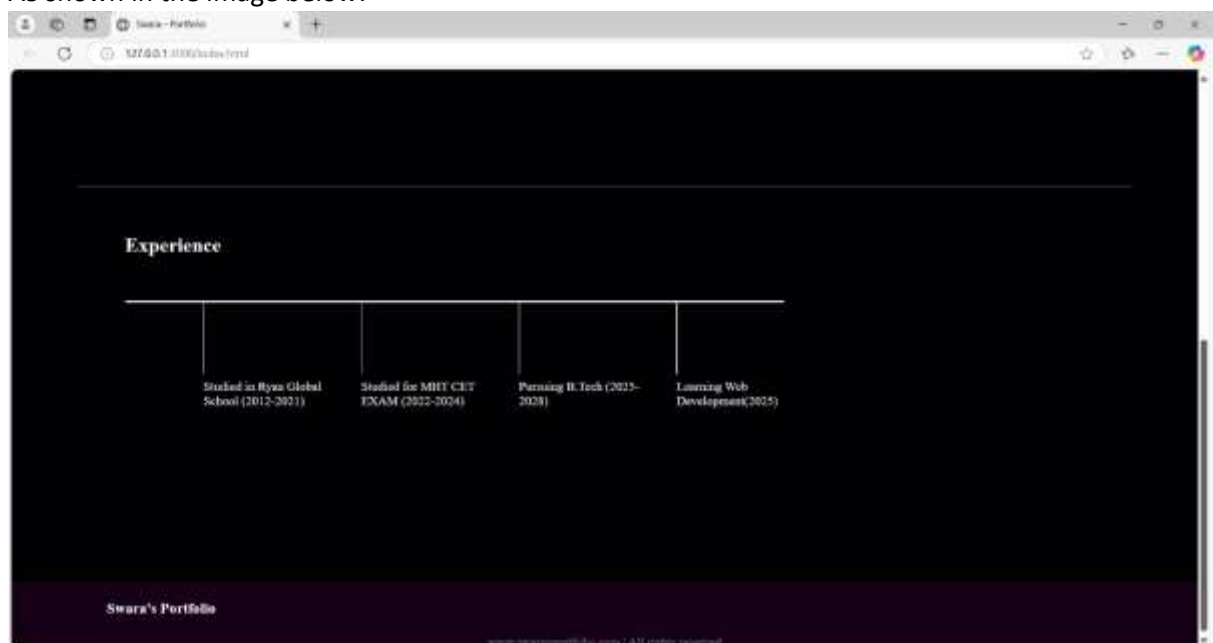
As shown in the image below:



7. Footer Section:

- Utilized the <footer> tag to create a well-defined footer section at the bottom of the page, ensuring that important information is easily accessible and organized. The footer acts as the closing element of the website, offering visitors a clear, structured end to their browsing experience.
- Included a copyright statement within the footer, displaying "© [Year] [Your Name]. All rights reserved." This not only protects the intellectual property of the content but also adds a layer of professionalism, signaling the ownership and legal rights of the website's materials.
- In addition to the copyright claim, I ensured the footer contained other relevant information such as contact details, social media links, and any additional disclaimers or policies. This makes the footer a functional part of the website, offering users easy access to important details without overwhelming the main content.
- Styled the footer to ensure it complemented the overall aesthetic of the website. The layout was clean and minimal, with text aligned in a way that was both readable and visually appealing. The design ensured the footer was both unobtrusive and functional, wrapping up the website in a cohesive, professional manner.

AS shown in the image below:



8. Testing & Optimization:

- Conducted thorough testing to ensure the website was fully responsive across various devices and screen sizes, from desktop computers to mobile phones and tablets. This included adjusting layouts, images, and elements to guarantee a smooth, user-friendly experience on all platforms. I verified that the design adapted seamlessly, maintaining a clean and accessible interface no matter the screen dimensions.
- Validated the HTML and CSS code for any errors or issues, ensuring the website was built on a solid foundation. This involved using validation tools to detect any discrepancies, such as missing tags, broken links, or improper nesting. I also made sure that the website functioned well across different browsers, testing compatibility with popular browsers like Chrome, Firefox, Safari, and Edge to ensure users had a consistent experience regardless of their chosen browser.
- Optimized the CSS code to improve website performance, focusing on minimizing file sizes and reducing unnecessary code. I also applied best practices such as using shorthand properties, eliminating redundant selectors, and ensuring that images were properly compressed. This helped improve page loading speeds, resulting in a faster and smoother experience for visitors, especially those with slower internet connections.

9. Future Enhancements:

- Looking ahead, there are plans to further enhance the website with the integration of JavaScript, adding dynamic features and interactivity. For example, JavaScript could be used to create real-time updates, animations, and interactive elements like modals, sliders, or pop-ups, providing a more engaging user experience.
- Another planned feature is the addition of a contact form, which will enable users to directly reach out via the website. This will enhance the functionality by providing an easy and seamless way for potential clients, collaborators, or employers to contact me without having to leave the site.

- Further, I intend to explore additional animations to make the website even more visually appealing and engaging. This could include smooth transitions, hover effects, or animated elements that respond to user actions, adding an extra layer of interactivity and polish to the overall design. These future improvements will ensure that the website remains modern, responsive, and capable of meeting evolving user needs.

HERE IS MY CODE :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Swara - Portfolio</title>
  <style>
    *{
      margin: 0;
      padding: 0;
    }

    body{
      background-color: rgb(1, 0, 2);
      color: white;
      font-family: 'Times New Roman', Times, serif;
    }

    nav{
      display: flex;
      justify-content: space-around;
      align-items: center;
      height: 80px;
      background-color: rgb(8, 8, 42);
    }
```

```
nav ul{
  display: flex;
  justify-content:center ;

}
```

```
nav ul li{
  list-style: none;
  margin: 0 23px;

}
```

```
nav ul li a{

  text-decoration: none;
  color: white;

}
```

```
nav ul li a:hover{
  color: rgb(103, 103, 193);
  font-size: 1.04rem;

}
```

```
main hr {
  border: 0;
  background: #9c97f1;
  height: 1.2px;
  margin: 60px 84px ;
}
```

```
.left{
  font-size: 1.5rem;
}
```

```
.firstsection{  
  display: flex;  
  justify-content: space-around;  
  align-items:center ;  
  margin: 120px 0;  
}
```

```
.firstsection > div {  
  width: 30%;  
}
```

```
.leftsection{  
  font-size: 3rem;  
  
}
```

```
.leftsection .buttons{  
  padding: 23px;  
}
```

```
.leftsection .btn{  
  padding: 12px;  
  background: rgb(1, 1, 57);  
  color: white;  
  border: 2px solid white;  
  border-radius: 6px;  
  font-size: 20px;  
  cursor: pointer;  
}
```

```
.rightsection img{  
  width: 80%;  
  margin: 50px 0;
```

```
}
```

```
.purple{  
  color:rgb(97, 21, 168);  
}
```

```
.secondsection{  
  max-width: 80vw;  
  margin: auto;  
  height: 60vh;  
}
```

```
.secondsection h1 {  
  font-size: 1.6rem;  
}
```

```
.secondsection .box{  
  background:white;  
  width: 55vw;  
  height: 2px;  
  margin: 56px 0;  
  display: flex;  
}
```

```
.secondsection .vertical{  
  height: 93px;  
  width: 1px;  
  background-color: white;  
  margin:0 100px ;  
}
```

```
.vertical-title{  
  position: relative;  
  top: 100px;  
  width: 170px;  
}
```

```
footer{  
  background-color: rgb(22, 1, 22);  
  
}
```

```
.footer{  
  display: flex;  
  padding: 23px 122px;  
}
```

```
footer .footer-rights{  
  text-align: center;  
  color: gray;  
}
```

```
</style>  
</head>  
<body>  
  <header>  
    <nav>  
      <div class ="left">Swara's Portfolio</div>  
      <div class ="right">  
        <ul>  
          <li><a href="/">Home</a></li>  
          <li><a href="/">About</a></li>  
          <li><a href="/">Contact me</a></li>  
        </ul>  
      </div>  
    </nav>  
  </header>
```

```
<main>
  <section class="firstsection">
    <div class="leftsection">My name is <span class="purple">Swara
</span>and I am a developer

    <div class="buttons">
      <button class="btn">Download Resume</button>
      <button class="btn">Visit Github</button>
    </div>
  </div>
  <div class="rightsection">
    
  </div>
</section>
<hr>
<section class="secondsection">
  <h1>
Experience
  </h1>
  <div class="box">
    <div class="vertical">
      <div class="vertical-title">
        Studied in Ryan Global School (2012-2021)
      </div>
    </div>
    <div class="vertical">
      <div class="vertical-title">
        Studied for MHT CET EXAM (2022-2024)
      </div>
    </div>
    <div class="vertical">
      <div class="vertical-title">
        Pursuing B.Tech (2025-2028)
      </div>
    </div>
    <div class="vertical">
      <div class="vertical-title">
        Learning Web Development(2025)
      </div>
    </div>
  </div>
</div>
```



```
</div>
</section>
<h1>
</main>
<footer>
  <div class="flex">
    <div class="footer">
      <h3>Swara's Portfolio</h3>
    </div>
    <div class="footer-rights">
      www.swarasportfolio.com | All rights reserved
    </div>
  </div>

</div>

</div>
</footer>

</body>
</html>
```

Code Explanation:

1. DOCTYPE and HTML Structure:

- The `<!DOCTYPE html>` declaration defines the document as an HTML5 document. The `<html>` tag sets the root element, with the `lang="en"` attribute specifying that the language of the document is English.

2. Head Section:

- Inside the `<head>` tag, we define the character encoding using `<meta charset="UTF-8">`, which ensures proper display of special characters.
- The `<meta name="viewport">` tag ensures that the website is responsive, making it adapt to different screen sizes (mobile, tablet, etc.).
- The `<title>` tag sets the name of the webpage shown on the browser tab as "Swara - Portfolio."
- A `<style>` tag is used to define internal CSS for the page's layout, color scheme, fonts, and positioning.

3. CSS Styling:

- **Universal Selector (*)**: Removes default margin and padding from all elements to create a consistent starting point across browsers.
- **Body**: Sets the background color to a dark shade of purple and changes the font to 'Times New Roman.'
- **Navigation (nav)**: Uses flexbox to create a horizontal navigation bar with space between items. The background is a dark color (`rgb(8, 8, 42)`), and text is white. The links inside the `` are styled to look neat and have a hover effect.
- **First Section (firstsection)**: The layout is split into two parts using flexbox. On the left, the text introduces Swara, while on the right, an image is displayed. The `.leftsection` contains Swara's name and profession, and the `.rightsection` holds an image (`swara1.png`).
- **Buttons**: Styled with padding, background color, border, and hover effects for interaction.
- **Experience Section (secondsection)**: Contains a vertical layout for the "Experience" timeline. Each experience is enclosed in a `.vertical` div, and the `.vertical-title` is used to display the details of each stage.
- **Footer**: The footer is styled with a dark background and contains two sections: one with the website's name and the other displaying copyright information.

4. Main Content:

- The `<main>` tag houses two primary sections:
 - **First Section:** Introduces the portfolio owner (Swara) with a brief self-introduction and includes two buttons: "Download Resume" and "Visit Github." These buttons are styled for better interaction.
 - **Experience Section:** Displays Swara's academic and professional milestones using a vertical timeline layout. Each experience item is represented with a white vertical line and labeled with the respective time periods and activities, such as "Studied in Ryan Global School" and "Learning Web Development."

5. Footer Section:

- The `<footer>` tag defines the footer area of the page. It contains a nested structure with the portfolio title and copyright information. The "footer-rights" div contains a simple copyright statement with the website's URL and "All rights reserved" text.

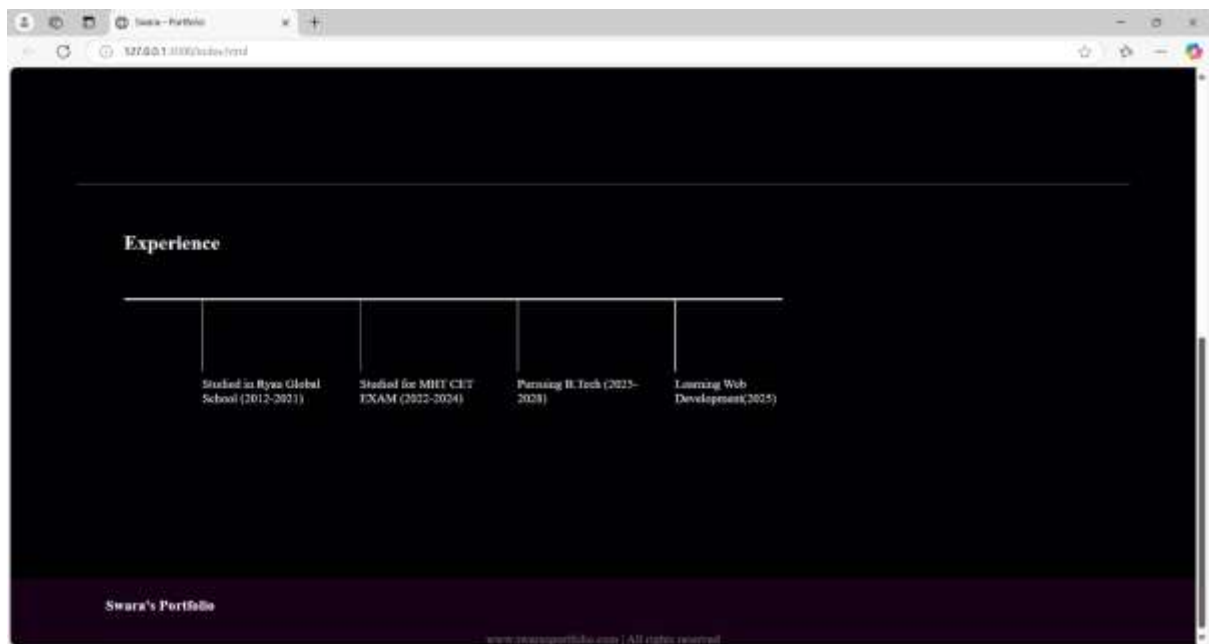
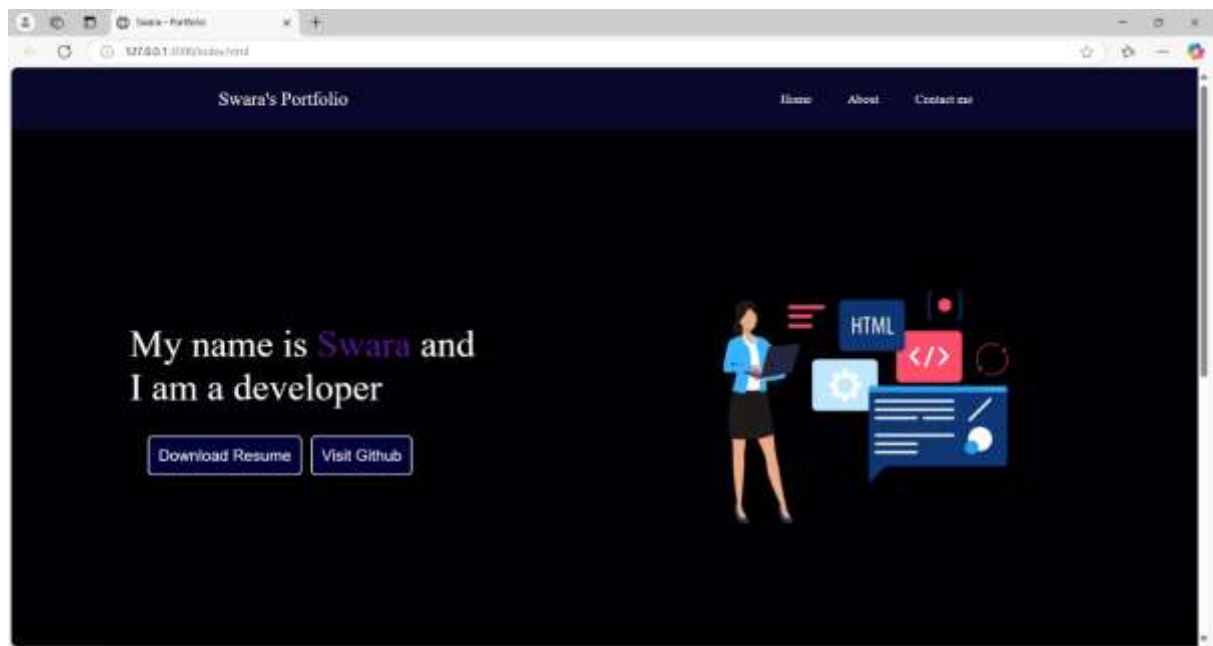
6. Flexbox and Layouts:

- Flexbox is widely used for creating responsive layouts. For example, the firstsection uses `display: flex;` to place text and images side by side. The .box in the experience section also uses flexbox to arrange multiple vertical lines for the timeline.

7. Image Handling:

- The image of Swara (``) is placed within the right section of the first section, and its size is controlled using `width: 80%;`. This ensures the image is responsive and scales well across different screen sizes.

THIS IS THE FINAL OUTPUT:



Conclusion:

This HTML document is a simple, well-structured, and responsive portfolio website. The layout is clear and visually organized, using HTML for content structure and CSS for styling, ensuring it looks good across multiple devices. The use of flexbox for positioning, the timeline for experience, and the footer with copyright information all contribute to making this portfolio professional and functional.