PROJECT REPORT

Application Name	S&T Emporium
Description	S&T Emporium is a responsive eCommerce website built using HTML, CSS, and JavaScript. It serves as an online shopping platform where a wide variety of goods are displayed and can be browsed by users across different devices. Designed with a focus on performance, user experience, and visual aesthetics, the application ensures smooth navigation, high-quality images, and intuitive interactions.
Course	Integrated Project-II
Course Code	24CA020
Batch	2023
Date	18-04-2025
Student Name	Taniya Maiti
Student Roll Number	2313986062

Application Results

S&T Emporium successfully delivers a complete front-end shopping experience. Users can browse products, manage their cart, and view detailed descriptions of goods. The interface is designed to be visually appealing and fully responsive on all device types.

Detailed Application Description
S&T Emporium is a modern, front-end-only eCommerce platform created to simulate a real-world shopping website. Built using HTML, CSS, and JavaScript, it provides core functionalities of an online store, including product browsing, cart management, and responsive layouts. The project originated from the need to understand and implement responsive web design principles and provide users with a seamless shopping experience regardless of the device used. Special attention was given to design layout, user navigation flow, and code modularity to ensure ease of use and adaptability. The UI is clean, featuring vibrant product cards, hover effects, and organized sections like featured products, categories, and promotional banners. One of the key highlights of the application is its responsiveness. The layout adapts fluidly to different screen sizes and orientations, tested thoroughly on desktops, tablets, and mobile phones. JavaScript is used to dynamically manage cart operations, update totals, and allow users to add or remove products. Images used are optimized for performance, and the styling ensures both aesthetics and functionality. The codebase is well-documented, and the project folder includes all necessary files and assets to run the application locally or deploy it on the web. Future enhancements could include integration with a backend for user authentication, payment gateway integration, product inventory management, and admin controls.

Application Successes includes

Name	Description
Responsive Design	Adapted perfectly across mobile, tablet, and desktop.
User Interface	Clean, modern UI offering smooth navigation.
Product Catalog	Structured, categorized listing with high-quality images.
Performance	Fast loading times and optimized for better UX.

Application Challenges

Description	Impact	Actions Taken

Responsive layout design for all devices	Caused initial layout breaking on mobile	Implemented media queries and tested widely
JavaScript cart logic	Incorrect updates in cart totals	Refactored cart functions and improved logic
Image optimization	Slower page loads initially	Compressed and resized images accordingly

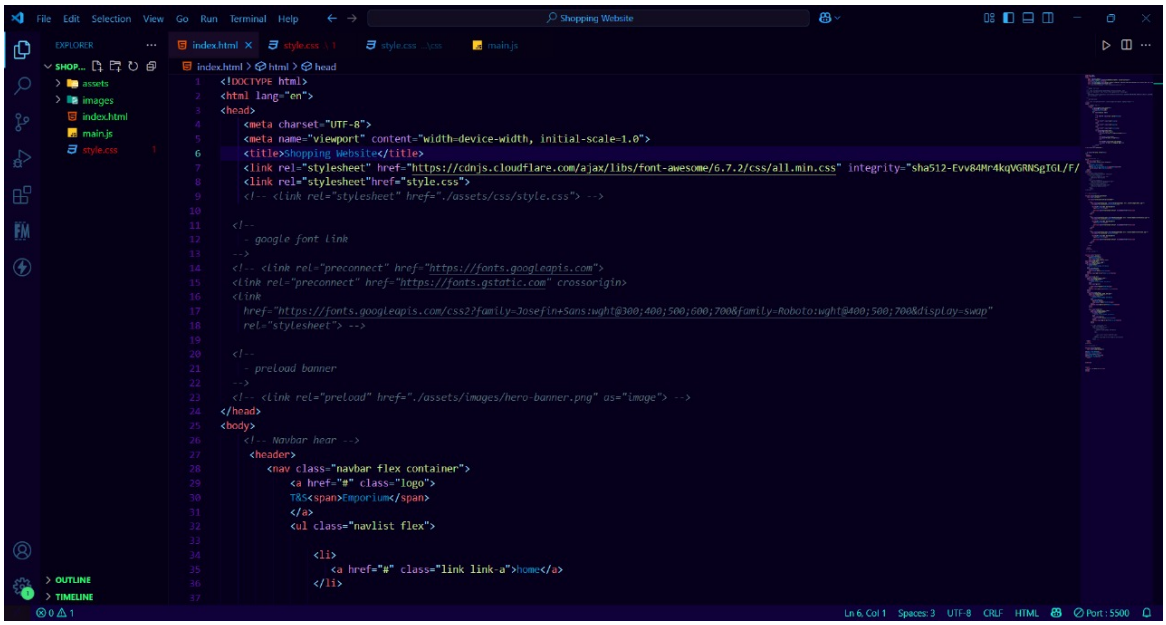
Lessons Learned

Description
Gained hands-on experience in responsive web design and front-end architecture.
Learned how to modularize code and reuse components efficiently.
Understood the importance of cross-browser compatibility and consistent UI.
Realized the importance of optimization for performance and loading speed.

Application Performance

Meeting Expectations		
Success Criteria	**Criteria Met**	**Comments**
Fully responsive design	☑	Worked across all major screen sizes
Smooth navigation and UI	☑	Clear layout and intuitive structure
Working shopping cart logic	☑	Functional and dynamically updates totals
Code readability and documentation	☑	Well-commented and organized structure

Transition to Operations and Archives	
Transition to Operations	The project files are structured and well-documented for deployment. It can be easily hosted on platforms like GitHub Pages or Netlify. All assets, including stylesheets, scripts, and images, are contained within the main directory. A README file guides the deployment and setup process.

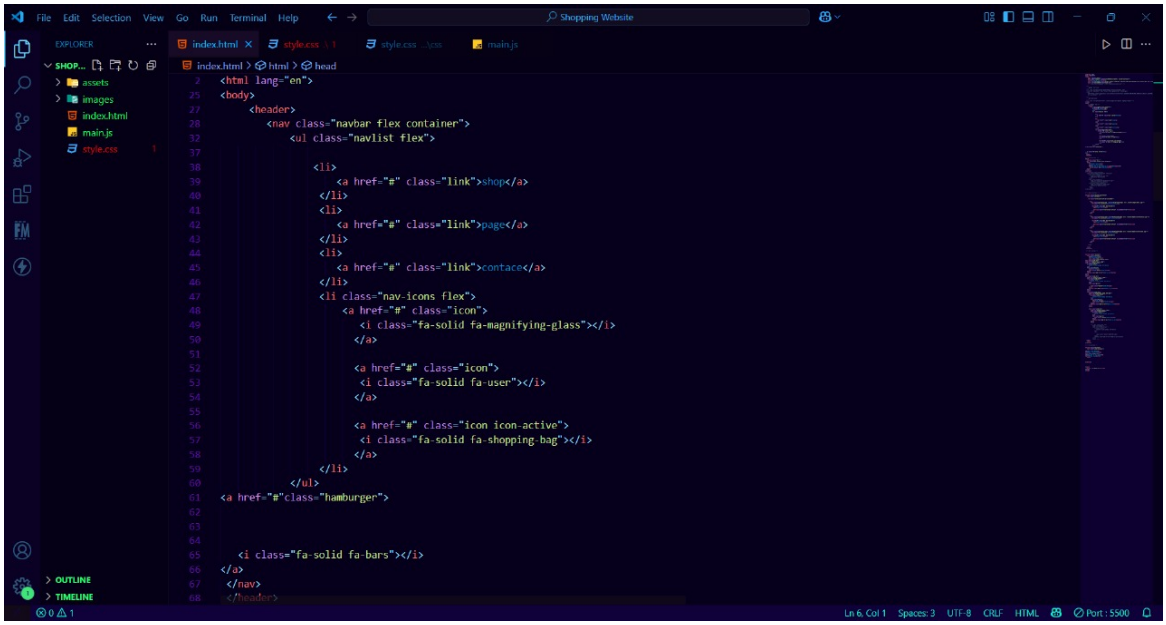


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Shopping Website</title>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.7.2/css/all.min.css" integrity="sha512-Evv84Mr4kqVGRNSgIGL/F/
    <link rel="stylesheet"href="style.css">
    <!-- <link rel="stylesheet" href="./assets/css/style.css"> -->

  <!--
    - google font link
  -->
  <!-- <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=Josefin+Sans:wght@300;400;500;600;700&family=Roboto:wght@400;500;700&display=swap"
    rel="stylesheet"> -->

  <!--
    - preload banner
  -->
  <!-- <link rel="preload" href="./assets/images/hero-banner.png" as="image"> -->
</head>
<body>
    <!-- Navbar hear -->
     <header>
        <nav class="navbar flex container">
            <a href="#" class="logo">
            T&S<span>Emporium</span>
            </a>
            <ul class="navlist flex">

                <li>
                   <a href="#" class="link link-a">home</a>
                </li>
```



```
<html lang="en">
<body>
    <header>
        <nav class="navbar flex container">
            <ul class="navlist flex">

                <li>
                    <a href="#" class="link">shop</a>
                </li>
                <li>
                   <a href="#" class="link">page</a>
                </li>
                <li>
                   <a href="#" class="link">contace</a>
                </li>
                <li class="nav-icons flex">
                    <a href="#" class="icon">
                       <i class="fa-solid fa-magnifying-glass"></i>
                      </a>

                      <a href="#" class="icon">
                       <i class="fa-solid fa-user"></i>
                      </a>

                      <a href="#" class="icon icon-active">
                       <i class="fa-solid fa-shopping-bag"></i>
                      </a>
                </li>
            </ul>
<a href="#"class="hamburger">



   <i class="fa-solid fa-bars"></i>
</a>
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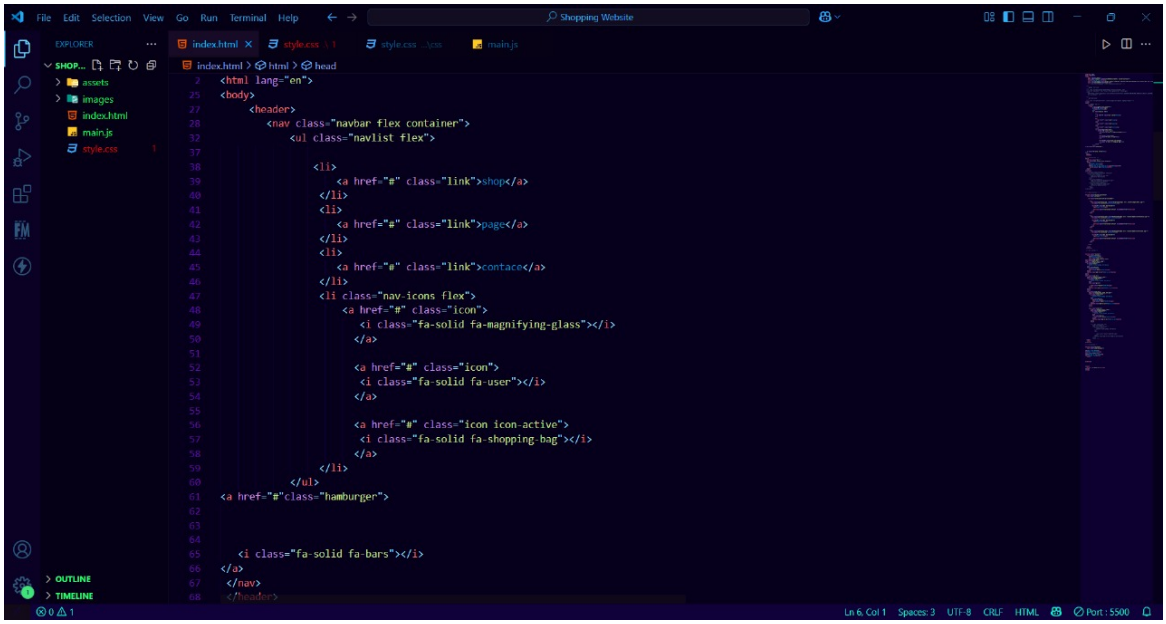

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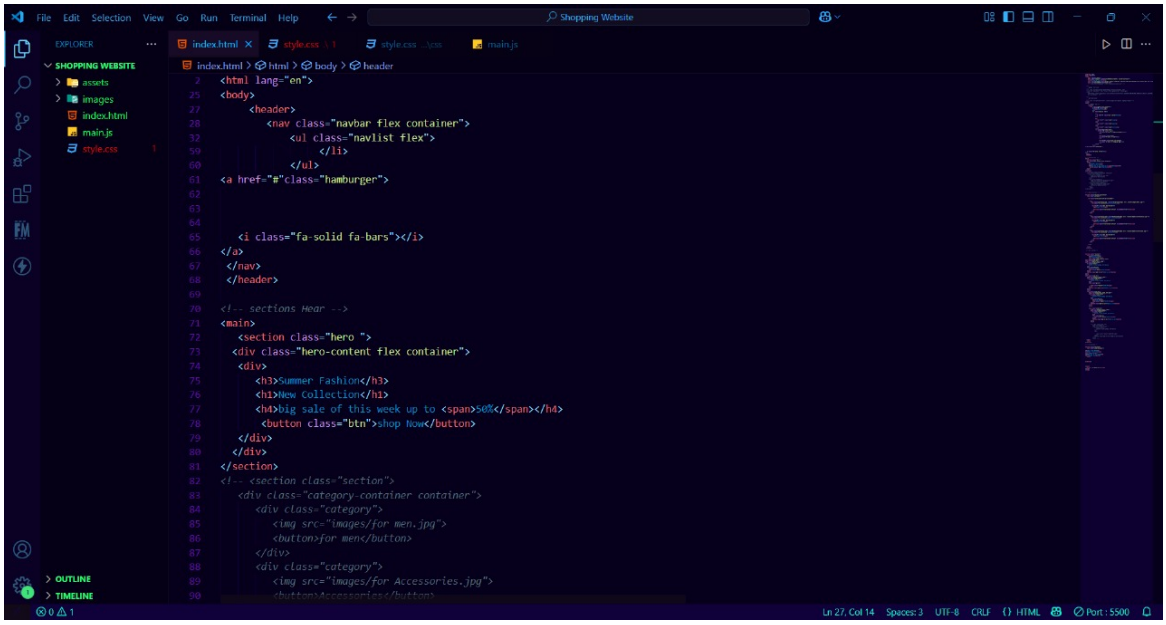

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</a>
 </nav>
 </header>

<!-- sections Hear -->
<main>
   <section class="hero ">
  <div class="hero-content flex container">
   <div>
      <h3>Summer Fashion</h3>
      <h1>New Collection</h1>
      <h4>big sale of this week up to <span>50%</span></h4>
       <button class="btn">shop Now</button>
   </div>
  </div>
</section>
<!-- <section class="section">
   <div class="category-container container">
      <div class="category">
         <img src="images/for men.jpg">
         <button>for men</button>
      </div>
      <div class="category">
         <img src="images/for Accessories.jpg">
         <button>Accessories</button>
```