Lesson 07 Demo 04

Styling Navigation Elements Using Tailwind CSS

Objective: To implement responsive navigation UI components using Tailwind CSS. This includes building navigation bars, dropdowns for smaller screens, and breadcrumbs, enabling enhanced user experience and smooth navigation flow.
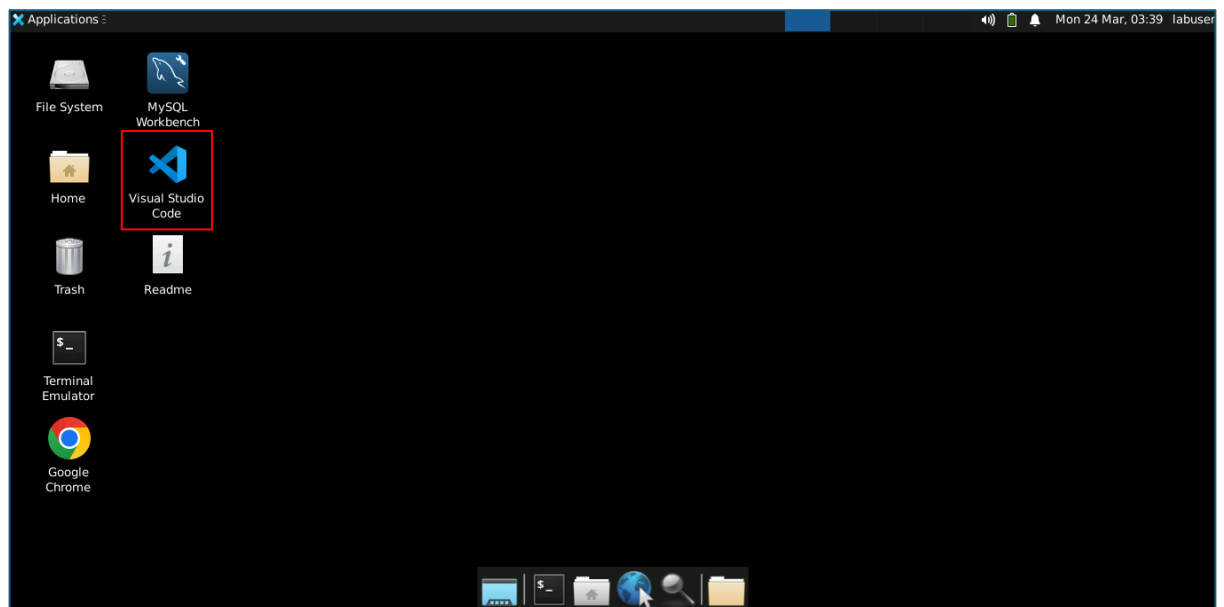
Tools required: Visual Studio Code

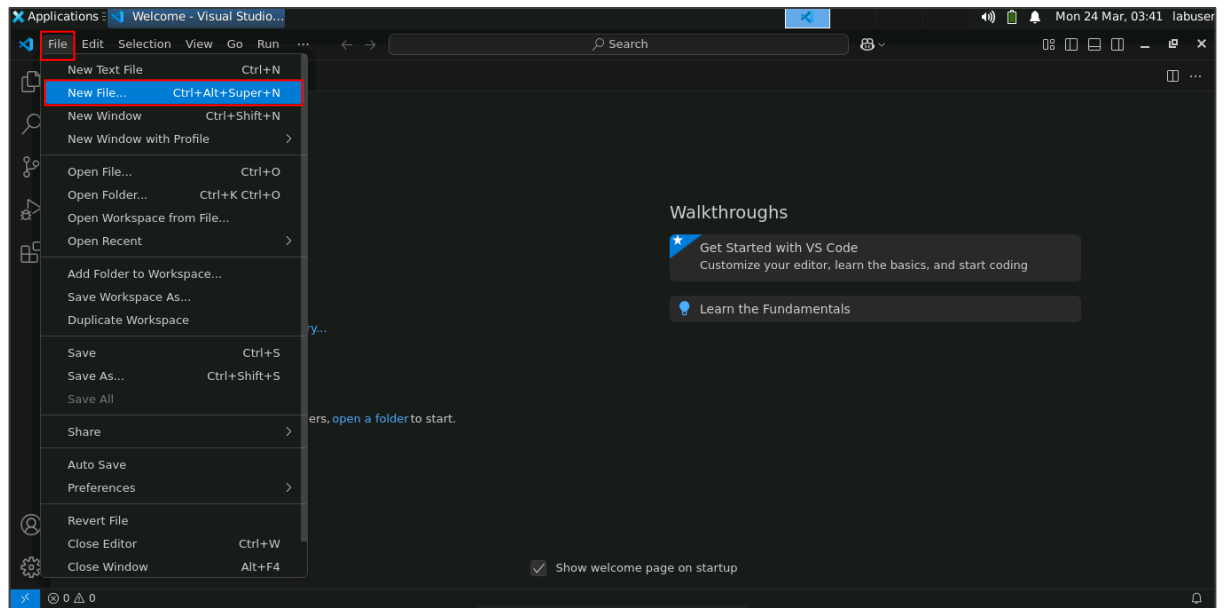**Prerequisites:** HTML Basics

Steps to be followed:
1. Open Visual Studio Code and create index.html
2. Add navigation elements code
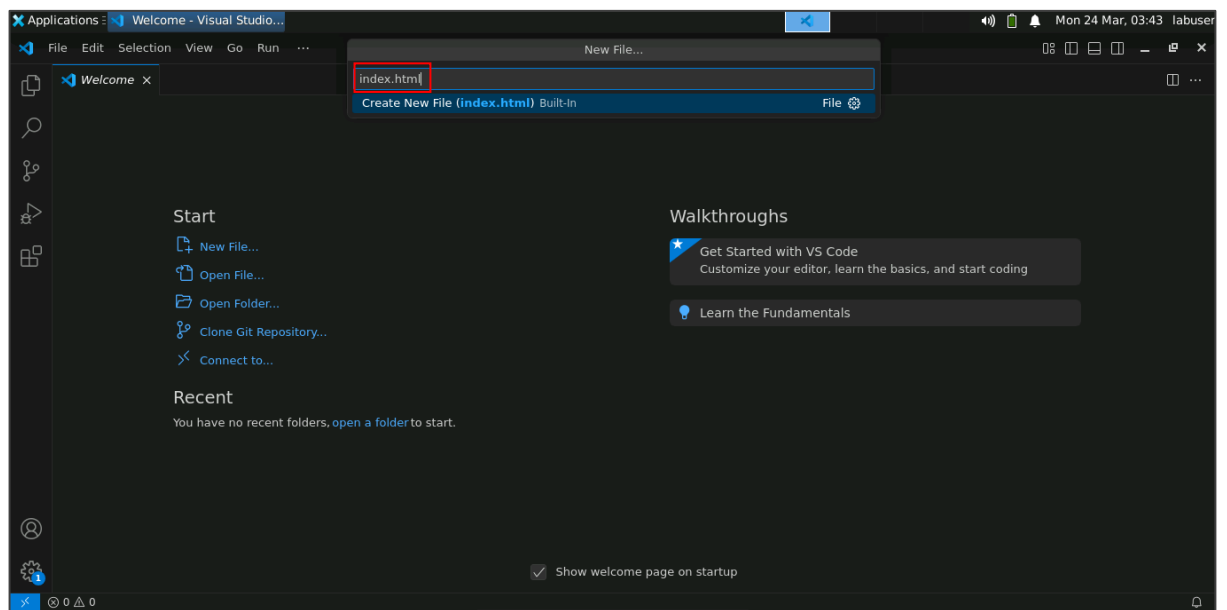
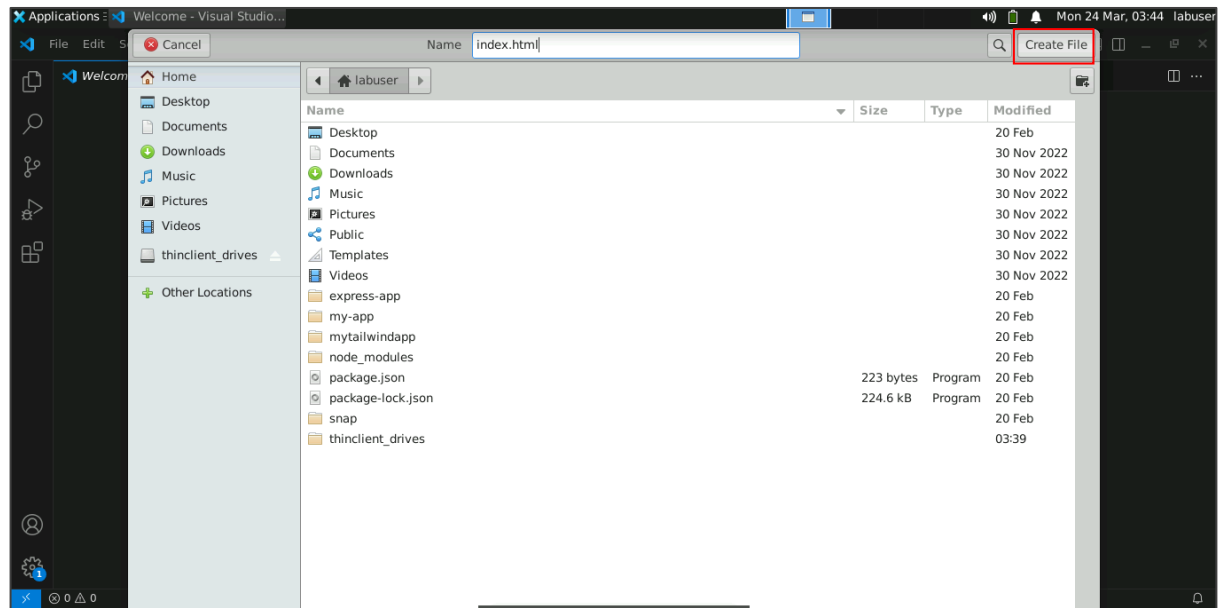## Step 1: Open Visual Studio Code and create index.html

1.1 Open **Visual Studio Code**

1.2 Click on **File**, then select the **New File…** option

1.3 Create an **index.html** file and press enter

1.4 Click **Create File**

1.5 Insert the following base HTML structure into the index.html file:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Navigation Components</title>
    <script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>
</head>

<body>
</body>

</html>
```
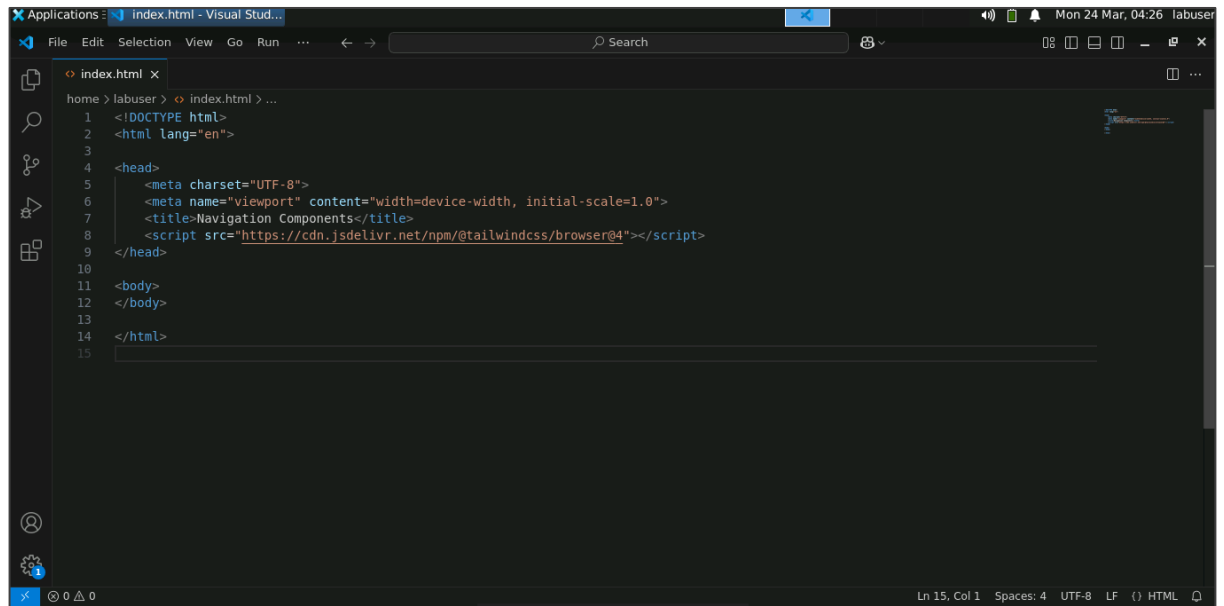
Step 2: Add navigation elements code

2.1 Modify the index.html file to include the navigation UI implementation

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Navigation Components</title>
    <script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>
</head>

<body>

    <!-- Navigation Bar -->
    <nav class="bg-blue-600 text-white">
        <div class="max-w-7xl mx-auto px-4 sm:px-6 lg:px-8">
            <div class="flex justify-around h-16 items-center">
                <div class="flex-shrink-0">
                    <a href="#" class="text-lg font-bold">App Name</a>
                </div>
```
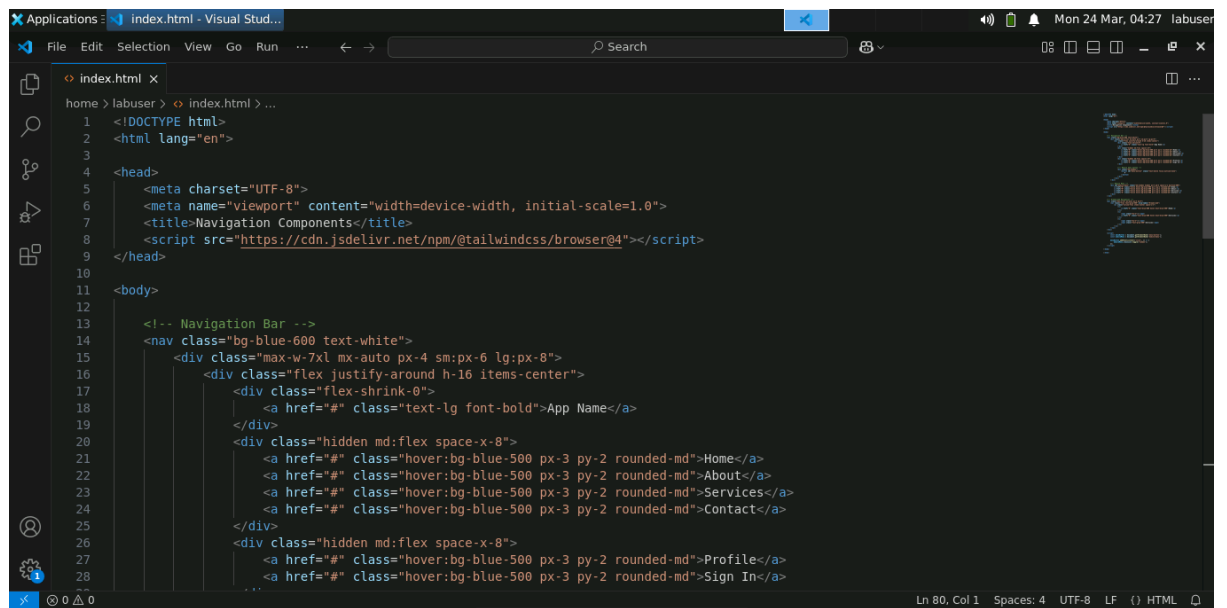
```html
        <div class="hidden md:flex space-x-8">
            <a href="#" class="hover:bg-blue-500 px-3 py-2 rounded-md">Home</a>
            <a href="#" class="hover:bg-blue-500 px-3 py-2 rounded-md">About</a>
            <a href="#" class="hover:bg-blue-500 px-3 py-2 rounded-md">Services</a>
            <a href="#" class="hover:bg-blue-500 px-3 py-2 rounded-md">Contact</a>
        </div>
        <div class="hidden md:flex space-x-8">
            <a href="#" class="hover:bg-blue-500 px-3 py-2 rounded-md">Profile</a>
            <a href="#" class="hover:bg-blue-500 px-3 py-2 rounded-md">Sign In</a>
        </div>

        <!-- Mobile menu button -->
        <div class="md:hidden">
          <button id="menu-button" class="text-white focus:outline-none">
            ☰
          </button>
        </div>
      </div>
    </div>

    <!-- Mobile Menu -->
    <div id="mobile-menu" class="md:hidden hidden px-4 pb-4 space-y-2 bg-blue-600">
      <a href="#" class="block hover:bg-blue-500 px-3 py-2 rounded-md">Home</a>
      <a href="#" class="block hover:bg-blue-500 px-3 py-2 rounded-md">About</a>
      <a href="#" class="block hover:bg-blue-500 px-3 py-2 rounded-md">Services</a>
      <a href="#" class="block hover:bg-blue-500 px-3 py-2 rounded-md">Contact</a>
    </div>
  </nav>

  <!-- Breadcrumb Navigation -->
```

```html
<div class="max-w-7xl mx-auto px-4 my-4">
    <nav class="flex text-gray-500" aria-label="Breadcrumb">
        <ol class="inline-flex items-center space-x-1">
            <li>
                <a href="#" class="text-blue-600 hover:text-blue-400">Home</a>
            </li>
            <li>
                <span class="mx-2">/</span>
                <a href="#" class="text-blue-600 hover:text-blue-400">Services</a>
            </li>
            <li>
                <span class="mx-2">/</span>
                <span class="text-gray-500">Service1</span>
            </li>
        </ol>
    </nav>
</div>

<script>
    const menuButton = document.getElementById('menu-button');
    const mobileMenu = document.getElementById('mobile-menu');

    menuButton.addEventListener('click', () => {
        mobileMenu.classList.toggle('hidden');
    });
</script>

</body>

</html>
```
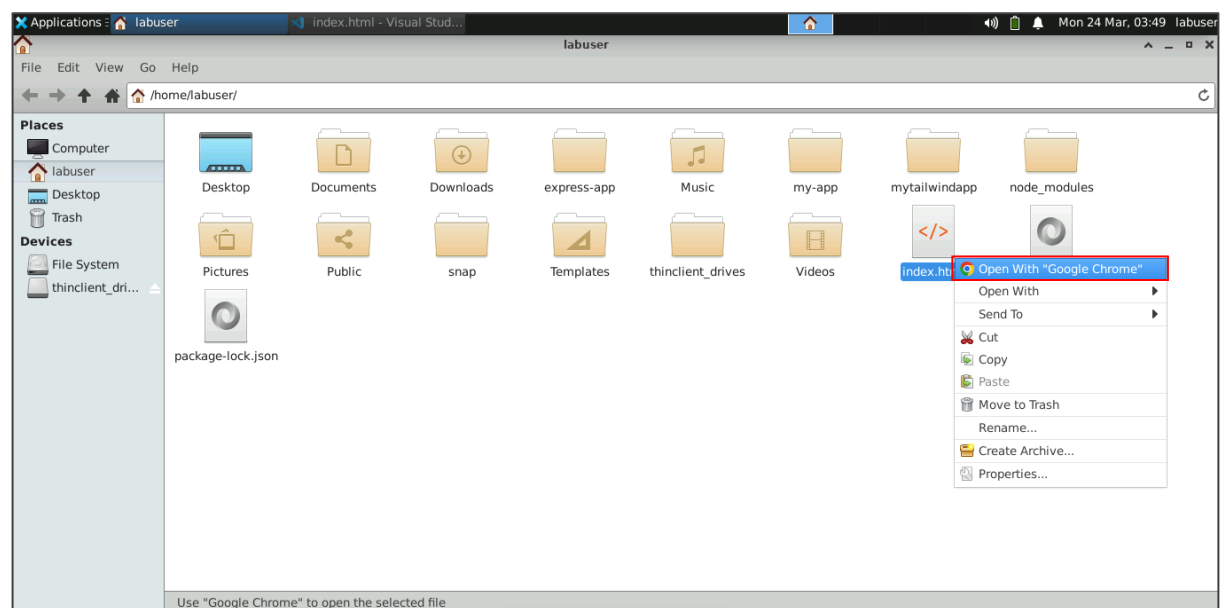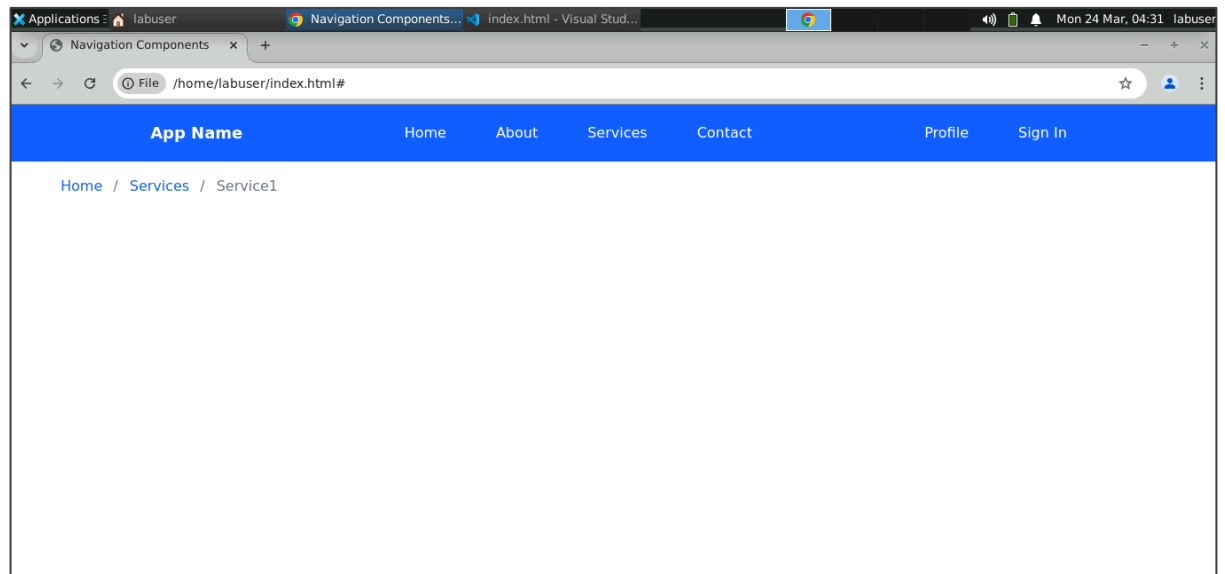
2.2 Navigate to the index.html file, right-click on the file, and select **Open With "Google Chrome"**

2.3 Verify that the navigation bar, mobile menu toggle, and breadcrumb navigation are displayed as expected:

By following the above steps, you have successfully created a responsive navigation bar, mobile menu toggle, and breadcrumb navigation using Tailwind CSS to enhance user experience and layout responsiveness.