Lesson End Project

Developing a Dashboard for an E-Commerce Web Application Using Tailwind CSS

Project agenda: To develop a Tailwind CSS-based E-commerce Dashboard that displays key store metrics, product listings, and order details using only HTML and Tailwind CSS. The focus will be on maximum utilization of Tailwind utility classes without any JavaScript or backend integration.

Description: You are tasked with designing a fully responsive dashboard for an e-commerce site using Tailwind CSS. The dashboard will include a sidebar for navigation, a header with user information, and main content areas displaying product lists, recent orders, and sales summaries using tables and card layouts. This project emphasizes using Tailwind's utility-first approach for styling, spacing, typography, and responsiveness.

Tools required: Visual Studio Code and Google Chrome

Prerequisites: None

Expected deliverables: A fully responsive and visually appealing e-commerce dashboard built using Tailwind CSS. The dashboard should include:
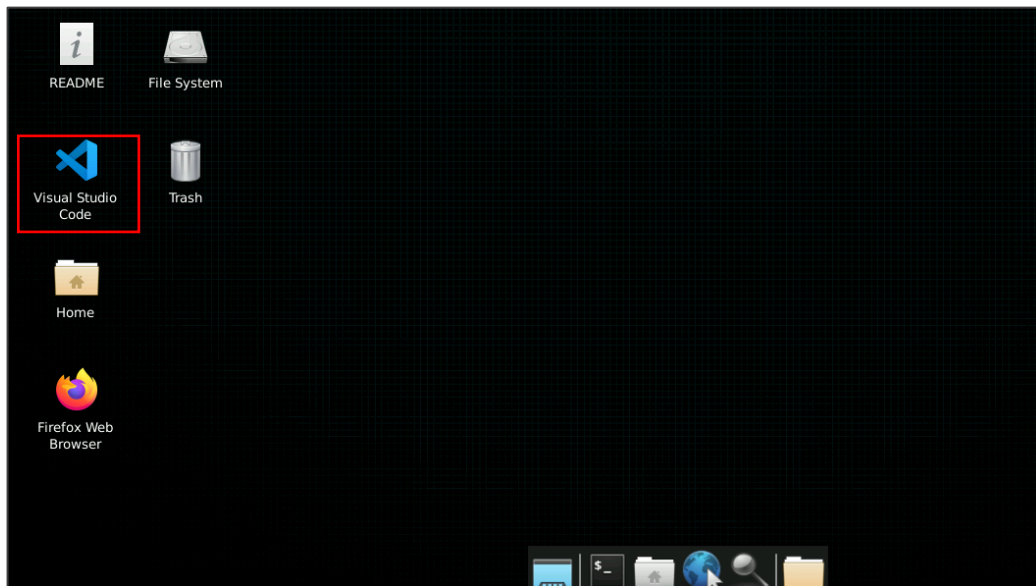
- A fixed navbar for navigation with dummy links like Profile and Logout
- A product list styled using Tailwind's grid or flex utilities
- A clean and professional UI, ensuring responsiveness across different screen sizes using Tailwind's responsive utility classes

Steps to be followed:
1. Set up a new index.html file
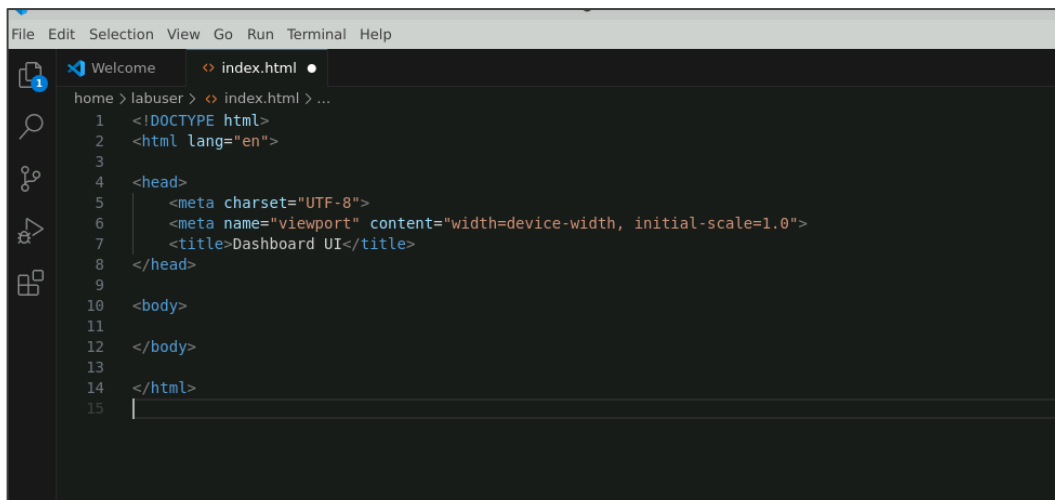2. Add the dashboard UI related HTML code
3. Run the code

Step 1: Set up a new index.html file

1.1 Navigate to **Visual Studio Code**

1.2 Create a new **index.html** file and add the code given below:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Dashboard UI</title>
</head>
<body>
</body>
</html>
```

1.3 Add the following CSS link to include Tailwind CDN:

`<script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>`

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

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

<body>

</body>

</html>
```
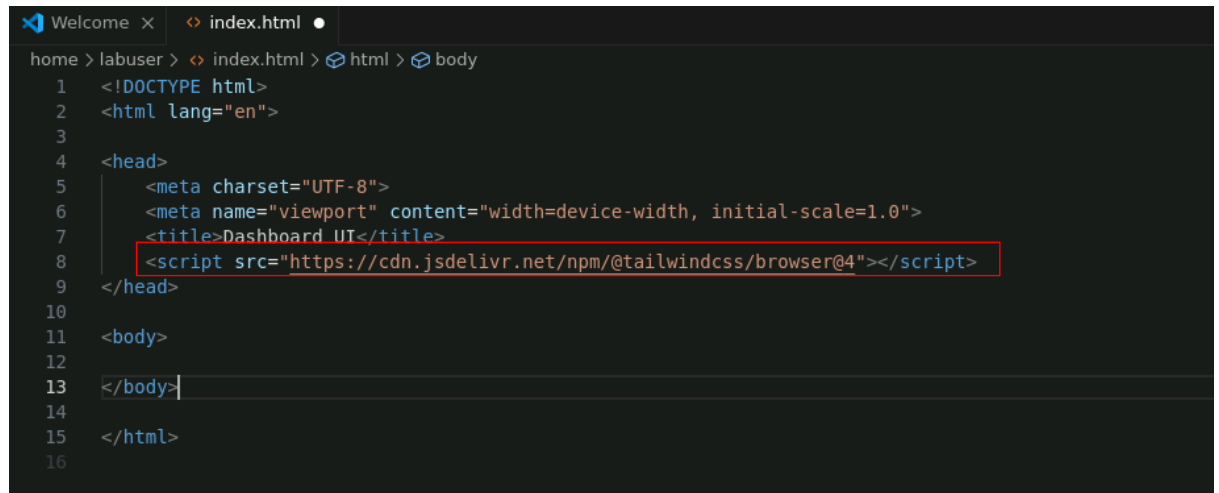
Step 2: Add the dashboard UI related HTML code

2.1 Add the following HTML dashboard code inside the **<body>** tag:

```html
<!-- Main Layout -->
<div class="flex h-screen">

  <!-- Sidebar -->
  <aside class="w-64 bg-white shadow-md p-4">
   <ul class="space-y-4">
     <li><a href="#" class="block p-2 hover:bg-gray-200">Dashboard</a></li>
     <li><a href="#" class="block p-2 hover:bg-gray-200">Orders</a></li>
     <li><a href="#" class="block p-2 hover:bg-gray-200">Products</a></li>
     <li><a href="#" class="block p-2 hover:bg-gray-200">Customers</a></li>
     <li><a href="#" class="block p-2 hover:bg-gray-200">Settings</a></li>
   </ul>
  </aside>

  <!-- Dashboard Content -->
  <main class="flex-1 p-6">
   <!-- Order Summary -->
   <h2 class="text-xl font-semibold mb-4">Order Summary</h2>
   <div class="grid grid-cols-3 gap-4">
     <div class="bg-white p-4 shadow-md rounded-md">
      <p class="text-gray-600">Total Orders</p>
      <h3 class="text-2xl font-bold">1,245</h3>
     </div>
```

```html
    <div class="bg-white p-4 shadow-md rounded-md">
      <p class="text-gray-600">Pending Orders</p>
      <h3 class="text-2xl font-bold">350</h3>
    </div>
    <div class="bg-white p-4 shadow-md rounded-md">
      <p class="text-gray-600">Completed Orders</p>
      <h3 class="text-2xl font-bold">895</h3>
    </div>
  </div>

  <!-- Product List -->
  <h2 class="text-xl font-semibold mt-6 mb-4">Product List</h2>
  <div class="grid grid-cols-3 gap-4">
    <!-- Product Card 1 -->
    <div class="bg-white p-4 shadow-md rounded-md">
      <img src="https://img.freepik.com/free-photo/elegant-smartphone-composition_23-2149437102.jpg"
           class="w-full h-40 object-contain rounded-md" alt="iPhone">
      <h3 class="text-lg font-bold mt-2">iPhone</h3>
      <p class="text-gray-600">$749.99</p>
      <button class="bg-blue-600 text-white px-4 py-2 rounded-md mt-2 w-full">Edit</button>
    </div>

    <!-- Product Card 2 -->
    <div class="bg-white p-4 shadow-md rounded-md">
      <img src="https://img.freepik.com/free-photo/closeup-shot-golden-watch-isolated_181624-28492.jpg"
           class="w-full h-40 object-contain rounded-md" alt="Watch">
      <h3 class="text-lg font-bold mt-2">Wrist Watch</h3>
      <p class="text-gray-600">$139.99</p>
      <button class="bg-blue-600 text-white px-4 py-2 rounded-md mt-2 w-full">Edit</button>
    </div>

    <!-- Product Card 3 -->
    <div class="bg-white p-4 shadow-md rounded-md">
      <img src="https://img.freepik.com/free-photo/reusable-eco-friendly-tote-bag_53876-101502.jpg"
           class="w-full h-40 object-contain rounded-md" alt="Bag">
      <h3 class="text-lg font-bold mt-2">Bag</h3>
```

```
    <p class="text-gray-600">$89.99</p>
    <button class="bg-blue-600 text-white px-4 py-2 rounded-md mt-2 w-
full">Edit</button>
      </div>
    </div>
  </main>
</div>
```

```
  9   </head>
 10   <!-- Main Layout -->
 11   <div class="flex h-screen">
 12
 13     <!-- Sidebar -->
 14     <aside class="w-64 bg-white shadow-md p-4">
 15       <ul class="space-y-4">
 16         <li><a href="#" class="block p-2 hover:bg-gray-200">Dashboard</a></li>
 17         <li><a href="#" class="block p-2 hover:bg-gray-200">Orders</a></li>
 18         <li><a href="#" class="block p-2 hover:bg-gray-200">Products</a></li>
 19         <li><a href="#" class="block p-2 hover:bg-gray-200">Customers</a></li>
 20         <li><a href="#" class="block p-2 hover:bg-gray-200">Settings</a></li>
 21       </ul>
 22     </aside>
 23
 24     <!-- Dashboard Content -->
 25     <main class="flex-1 p-6">
 26       <!-- Order Summary -->
 27       <h2 class="text-xl font-semibold mb-4">Order Summary</h2>
 28       <div class="grid grid-cols-3 gap-4">
 29         <div class="bg-white p-4 shadow-md rounded-md">
```
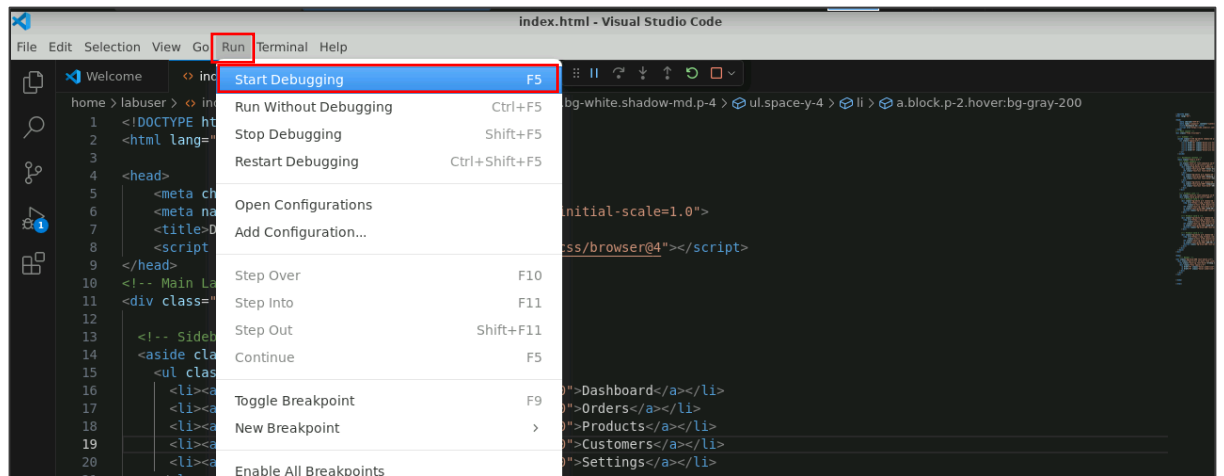
```
 28 ∨    <div class="grid grid-cols-3 gap-4">
 29 ∨      <div class="bg-white p-4 shadow-md rounded-md">
 30          <p class="text-gray-600">Total Orders</p>
 31          <h3 class="text-2xl font-bold">1,245</h3>
 32        </div>
 33 ∨      <div class="bg-white p-4 shadow-md rounded-md">
 34          <p class="text-gray-600">Pending Orders</p>
 35          <h3 class="text-2xl font-bold">350</h3>
 36        </div>
 37 ∨      <div class="bg-white p-4 shadow-md rounded-md">
 38          <p class="text-gray-600">Completed Orders</p>
 39          <h3 class="text-2xl font-bold">895</h3>
 40        </div>
 41      </div>
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 43      <!-- Product List -->
 44      <h2 class="text-xl font-semibold mt-6 mb-4">Product List</h2>
 45 ∨    <div class="grid grid-cols-3 gap-4">
 46        <!-- Product Card 1 -->
 47 ∨      <div class="bg-white p-4 shadow-md rounded-md">
 48          <img src="https://img.freepik.com/free-photo/elegant-smartphone-composition 23-2149437102.jpg"
```
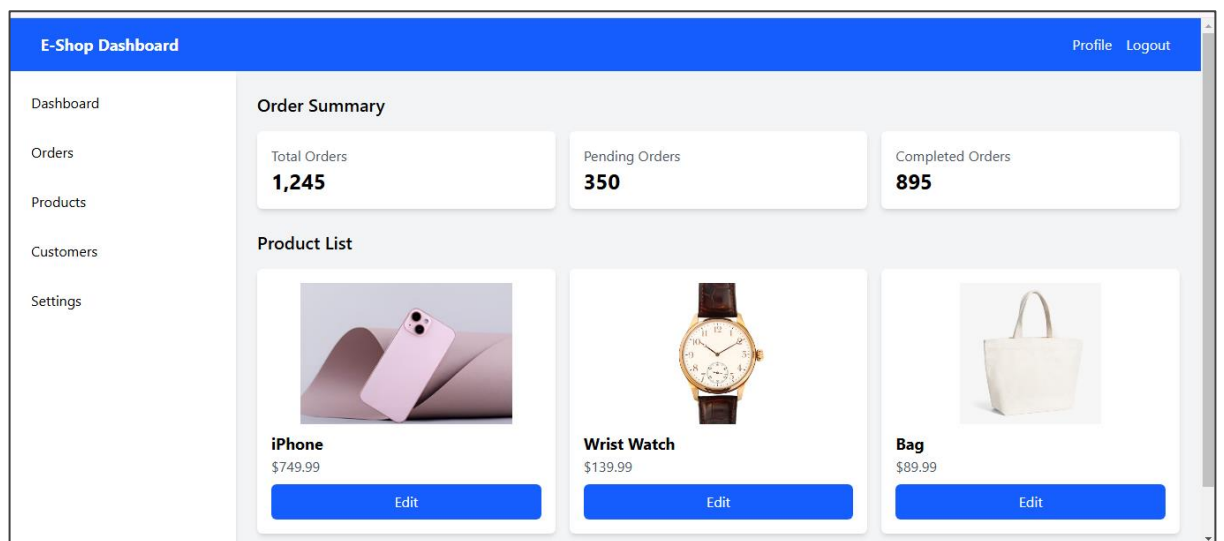
Step 3: Run the code

3.1 Click on **Run** and then click on **Start Debugging**

The web page shown below will open:

By following these steps, you have successfully developed a Tailwind CSS-based E-Commerce Dashboard using only HTML and Tailwind CSS. Tailwind utility classes allow for **rapid layout and styling** without writing custom CSS.
This dashboard provides:

- A **left-hand navigation panel**
- A **main area** that includes:
  - An **order summary** (with three data cards)
  - A **product list** (with three product cards showing image, name, price, and an edit button)