

Tailwind CSS Introduction

1. What is Tailwind CSS?

- **Definition:** Tailwind CSS is a **utility-first CSS framework**.
- Unlike traditional CSS frameworks (like Bootstrap), you **write styles directly in HTML using classes** instead of writing custom CSS.
- **Example:** Instead of writing `.btn { padding: 10px; background: blue; }` in CSS, you write directly in HTML:

```
<button class="px-4 py-2 bg-blue-500 text-white rounded">Click Me</button>
```

Follow these updated steps to set up **Tailwind v4** on your Windows PC using the CLI:-

<https://tailwindcss.com/docs/installation/tailwind-cli>

1. Install the New CLI

Since you are using v4, you need the specific CLI package.

Open your project folder in VS Code and run: -

```
npm install tailwindcss @tailwindcss/cli
```

```
D:\tailwind-css>cd my-project
```

```
D:\tailwind-css\my-project>npm install tailwindcss @tailwindcss/cli
```

```
added 24 packages, and audited 40 packages in 2s
```

```
13 packages are looking for funding  
run `npm fund` for details
```

```
found 0 vulnerabilities
```

2. Set Up Your CSS File

Instead of using `@tailwind` directives (v3), v4 uses a single CSS import.

- Create a folder named `src`.
- Inside `src`, create a file named `input.css`.
- Add this single line to `input.css`:

```
@import "tailwindcss";
```

3. Run the New Build Command

The command to build your CSS has changed for v4. Run this in your terminal:

```
npx @tailwindcss/cli -i ./src/input.css -o ./dist/output.css -watch
```

```
D:\tailwind-css\my-project>npx @tailwindcss/cli -i ./src/input.css -o ./dist/output.css --watch
* tailwindcss v4.2.2

Done in 1s
Done in 156µs

Done in 23µs
Done in 27µs
Done in 12ms
Done in 5ms
Done in 17ms
```

- **-i**: Your input file (`src/input.css`).
- **-o**: Where you want the final CSS to go (`dist/output.css`).
- **--watch**: Automatically updates the file whenever you save changes.

4. Link the CSS in HTML

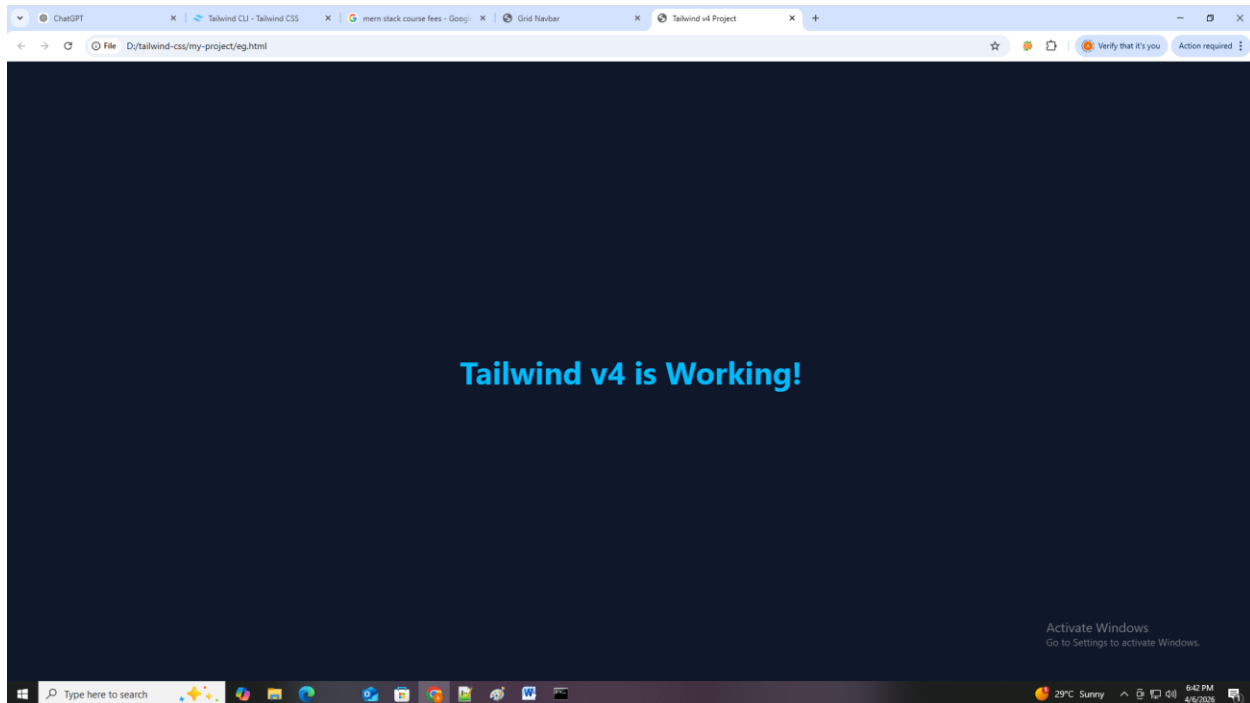
In your `index.html`, link to the **output** file you just created:

```
<link href="./dist/output.css" rel="stylesheet">
```

And you can see following code example index.html :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <!-- Link to the OUTPUT file, not the input file -->
  <link href="./dist/output.css" rel="stylesheet">
  <title>Tailwind v4 Project</title>
</head>
<body class="bg-slate-900 flex items-center justify-center min-h-screen">
  <h1 class="text-5xl font-bold text-sky-400 drop-shadow-md">
    Tailwind v4 is Working!
  </h1>
</body>
</html>
```

Output:-



Let's break down the **basics of grid layouts in Tailwind CSS** step by step. Tailwind uses utility classes to control grid behavior, making it easy to create responsive, flexible layouts without writing custom CSS.

1. Defining a Grid Container

Use `grid` on a parent element to make it a grid container.

```
<div class="grid">  
  <div class="bg-red-500">1</div>  
  <div class="bg-blue-500">2</div>  
  <div class="bg-green-500">3</div>  
</div>
```

- `grid` → enables CSS Grid.
-

2. Setting Columns

Tailwind provides classes like `grid-cols-{n}` to define the number of columns.

```
<div class="grid grid-cols-3 gap-4">  
  <div class="bg-red-500">1</div>  
  <div class="bg-blue-500">2</div>  
  <div class="bg-green-500">3</div>  
</div>
```

- `grid-cols-3` → 3 equal-width columns.
- `gap-4` → spacing between rows and columns (1rem by default).

Other options:

- `grid-cols-1`, `grid-cols-2`, ... `grid-cols-12`
 - `grid-cols-none` → no defined columns
-

3. Responsive Grid

You can define different column numbers for breakpoints.

```
<div class="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4 gap-4">  
  <div class="bg-red-500">1</div>  
  <div class="bg-blue-500">2</div>  
  <div class="bg-green-500">3</div>  
  <div class="bg-yellow-500">4</div>  
</div>
```

- `md:grid-cols-2` → 2 columns on medium screens (≥768px)
 - `lg:grid-cols-4` → 4 columns on large screens (≥1024px)
-

4. Rows

Tailwind also allows control over rows:

```
<div class="grid grid-rows-3 gap-2">  
  <div class="bg-red-500">Row 1</div>  
  <div class="bg-blue-500">Row 2</div>  
  <div class="bg-green-500">Row 3</div>  
</div>
```

- `grid-rows-3` → defines 3 rows.

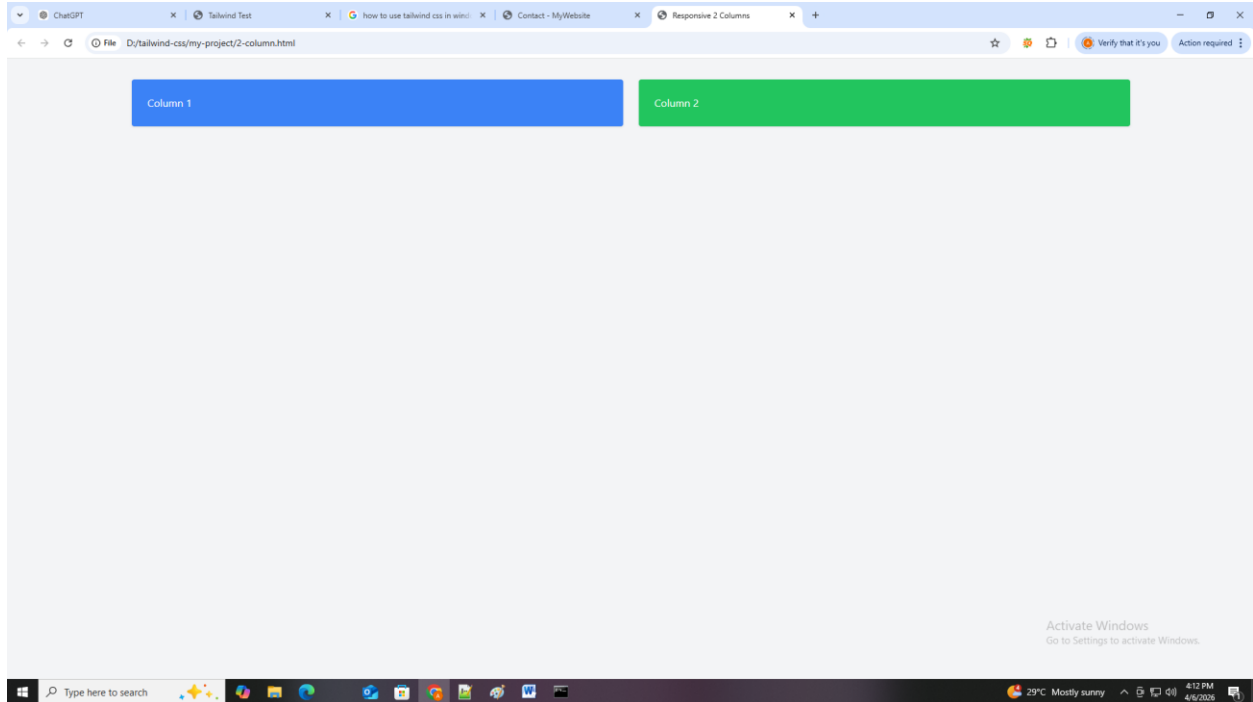
2 Columns Layout FULL CODE EXAMPLE (2.html) :-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Responsive 2 Columns</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="bg-gray-100 p-8">

  <div class="container mx-auto">
    <div class="grid grid-cols-1 md:grid-cols-2 gap-6">
      <div class="bg-blue-500 text-white p-6 rounded shadow">Column 1</div>
      <div class="bg-green-500 text-white p-6 rounded shadow">Column 2</div>
    </div>
  </div>

</body>
</html>
```

Output:-

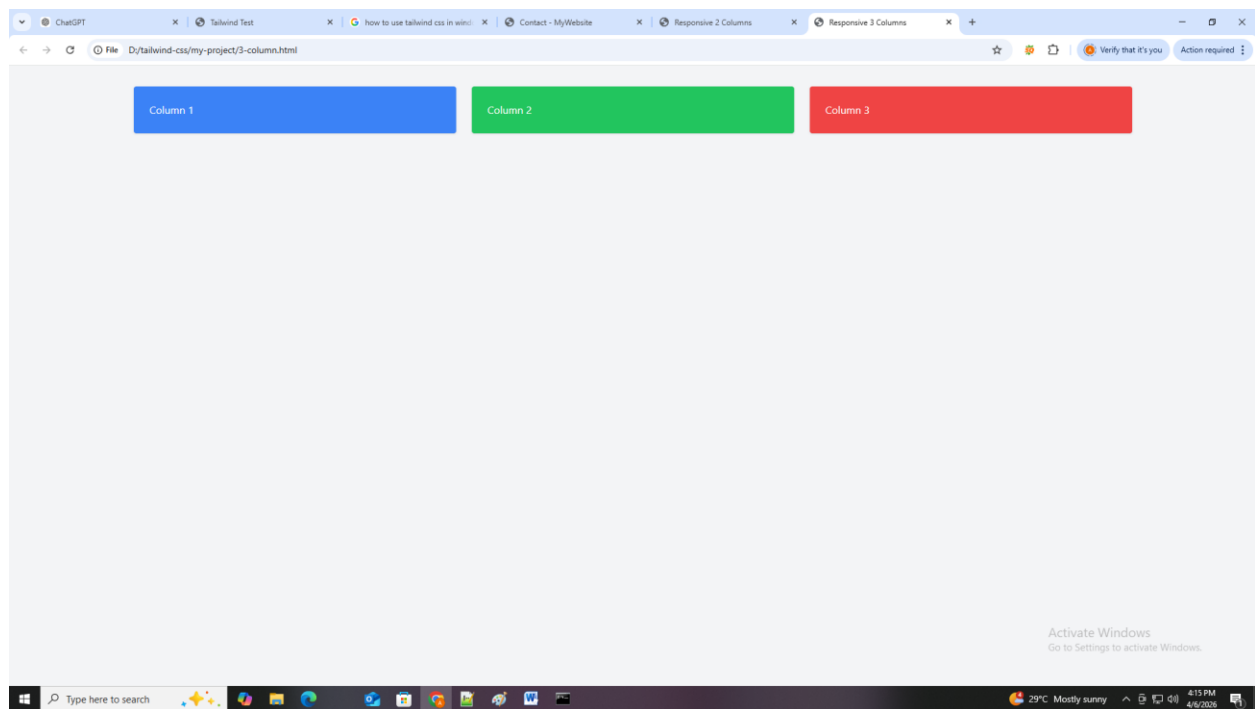


Key Tailwind Concepts for Responsive Columns

Feature	Tailwind Class	Effect
Grid container	<code>grid</code>	Enables CSS grid layout
Columns	<code>grid-cols-1, md:grid-cols-2</code>	Number of columns (responsive)
Gap between columns	<code>gap-6</code>	Adds spacing between grid items
Responsive breakpoints	<code>sm:, md:, lg:</code>	Change layout depending on screen width
Background color	<code>bg-blue-500, bg-green-500</code>	Styling columns visually
Padding	<code>p-6</code>	Inner spacing
Rounded corners	<code>rounded</code>	Smooth edges

Feature	Tailwind Class	Effect
Shadow	shadow	Adds elevation

3 Columns Layout (3.html) :-



```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Responsive 3 Columns</title>
```

```
<script src="https://cdn.tailwindcss.com"></script>
```

```
</head>
```

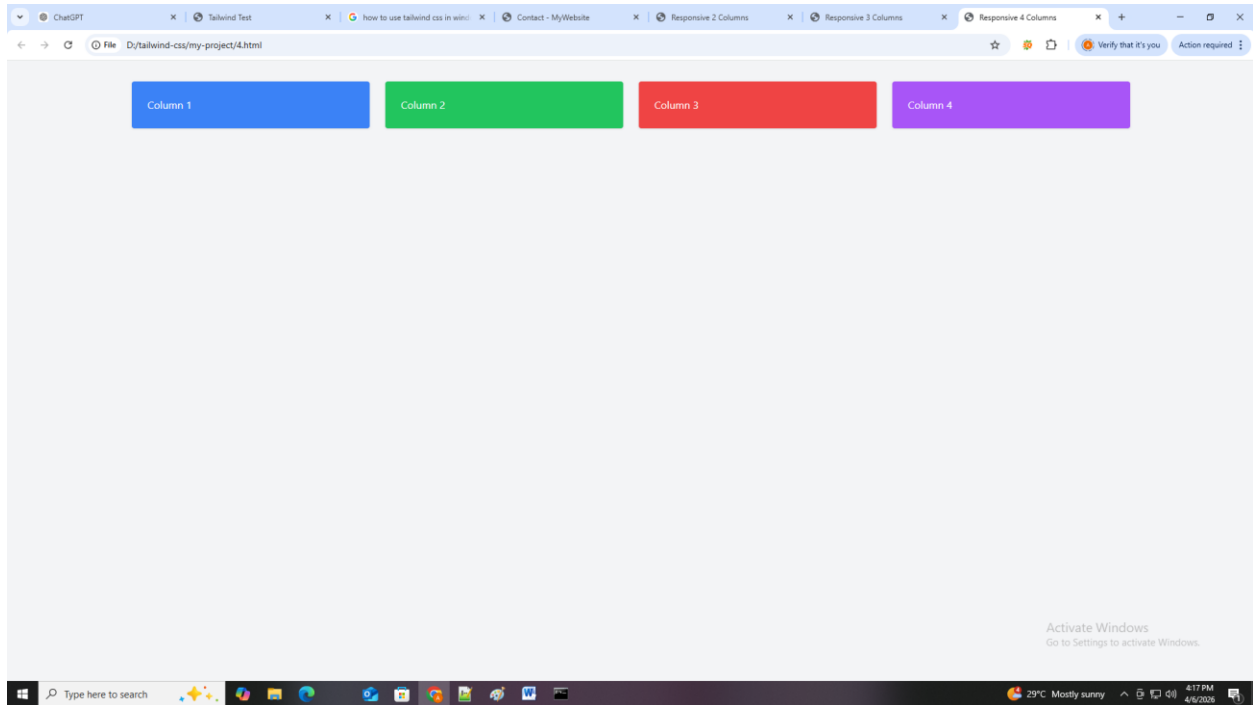
```
<body class="bg-gray-100 p-8">
```

```
<div class="container mx-auto">
  <div class="grid grid-cols-1 md:grid-cols-3 gap-6">
    <div class="bg-blue-500 text-white p-6 rounded shadow">Column 1</div>
    <div class="bg-green-500 text-white p-6 rounded shadow">Column 2</div>
    <div class="bg-red-500 text-white p-6 rounded shadow">Column 3</div>
  </div>
</div>
</body>
</html>
```

Key Tailwind Concepts for 3 Columns

Feature	Tailwind Class	Effect
Grid container	<code>grid</code>	Enables CSS grid layout
Number of columns	<code>grid-cols-1, md:grid-cols-3</code>	Columns responsive
Gap between columns	<code>gap-6</code>	Adds spacing between items
Responsive breakpoint	<code>md:</code>	Changes layout on medium+ screens
Column styling	<code>bg-color p-6 rounded shadow</code>	Visual styling of each column

4 Columns Layout:-



```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Responsive 4 Columns</title>
```

```
<script src="https://cdn.tailwindcss.com"></script>
```

```
</head>
```

```
<body class="bg-gray-100 p-8">
```

```

<div class="container mx-auto">
  <div class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-4 gap-6">
    <div class="bg-blue-500 text-white p-6 rounded shadow">Column 1</div>
    <div class="bg-green-500 text-white p-6 rounded shadow">Column 2</div>
    <div class="bg-red-500 text-white p-6 rounded shadow">Column 3</div>
    <div class="bg-purple-500 text-white p-6 rounded shadow">Column 4</div>
  </div>
</div>

</body>
</html>

```

Key Tailwind Concepts for 4 Columns

Feature	Tailwind Class	Effect
Grid container	grid	Enables CSS grid layout
Number of columns	grid-cols-1 sm:grid-cols-2 md:grid-cols-4	Responsive columns
Gap between columns	gap-6	Adds spacing between items
Column styling	bg-color p-6 rounded shadow	Visual styling for each column
Responsive breakpoints	sm:, md:	Change layout on different screen sizes

Tailwind flex layouts with clear explanations and responsive behavior, step by step. I'll include a guide for each example so you understand why each class is used.

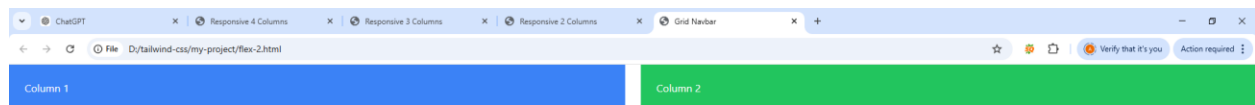
1. Two Columns (Fixed on Desktop)

```
<div class="flex gap-6">  
  <div class="w-1/2 bg-blue-500 text-white p-6">Column 1</div>  
  <div class="w-1/2 bg-green-500 text-white p-6">Column 2</div>  
</div>
```

Explanation:

- `flex` → enables flexbox on the container.
- `gap-6` → adds spacing (1.5rem) between columns.
- `w-1/2` → each column takes 50% of the container width.
- `bg-blue-500` / `bg-green-500` → background colors.
- `text-white` → makes text readable.
- `p-6` → padding inside each column.

This is a **two-column layout** for all screen sizes.



Activate Windows
Go to Settings to activate Windows.

2. Two Columns (Responsive)

```
<div class="flex flex-col md:flex-row gap-6">
  <div class="w-full md:w-1/2 bg-blue-500 text-white p-6">Column 1</div>
  <div class="w-full md:w-1/2 bg-green-500 text-white p-6">Column 2</div>
</div>
```

Explanation:

- `flex-col` → stack columns vertically on small screens.
- `md:flex-row` → switch to horizontal row on medium screens ($\geq 768\text{px}$).
- `w-full` → column takes full width on small screens.
- `md:w-1/2` → column takes 50% width on medium+ screens.
- `gap-6` → spacing between columns.

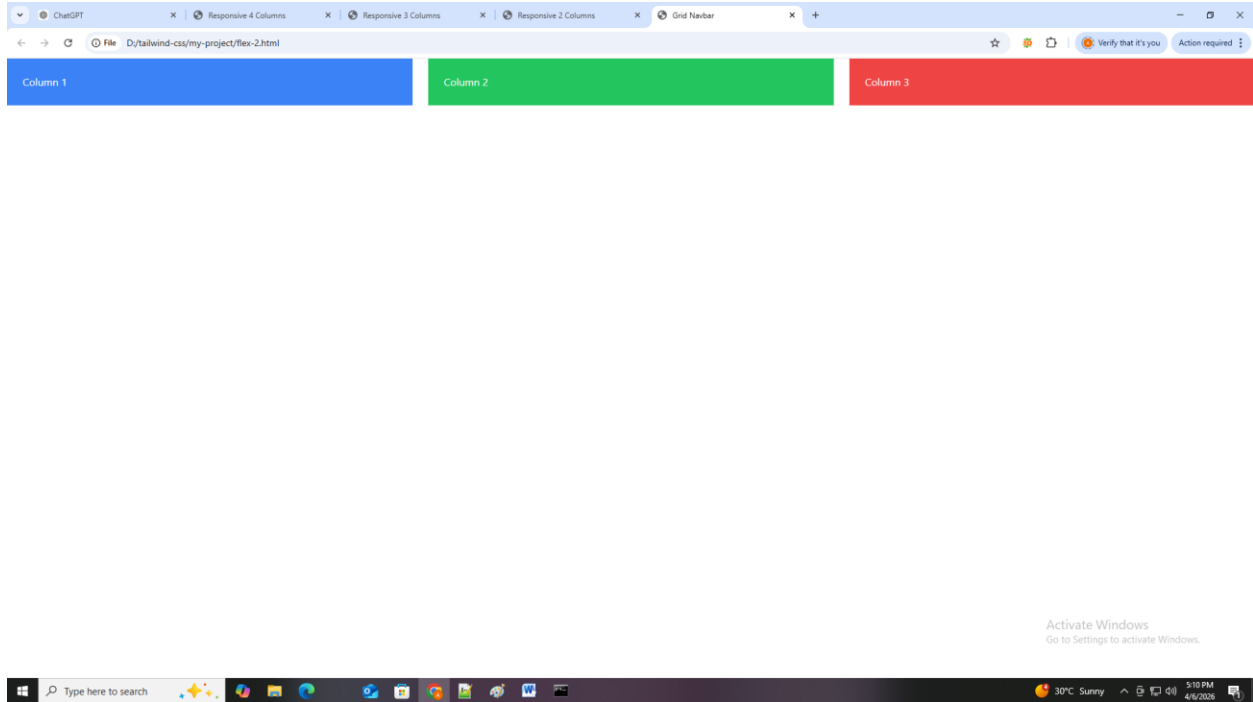
Responsive: **single column on mobile, two columns on desktop.**

3. Three Columns (Fixed)

```
<div class="flex gap-6">
  <div class="w-1/3 bg-blue-500 text-white p-6">Column 1</div>
  <div class="w-1/3 bg-green-500 text-white p-6">Column 2</div>
  <div class="w-1/3 bg-red-500 text-white p-6">Column 3</div>
</div>
```

Explanation:

- `w-1/3` → each column takes one-third of the container.
- `flex + gap-6` → horizontal row with spacing.
- Fixed layout: **always 3 columns**, no responsiveness.



4. Three Columns (Responsive)

```
<div class="flex flex-col md:flex-row gap-6">  
  <div class="w-full md:w-1/3 bg-blue-500 text-white p-6">Column 1</div>  
  <div class="w-full md:w-1/3 bg-green-500 text-white p-6">Column 2</div>  
  <div class="w-full md:w-1/3 bg-red-500 text-white p-6">Column 3</div>  
</div>
```

Explanation:

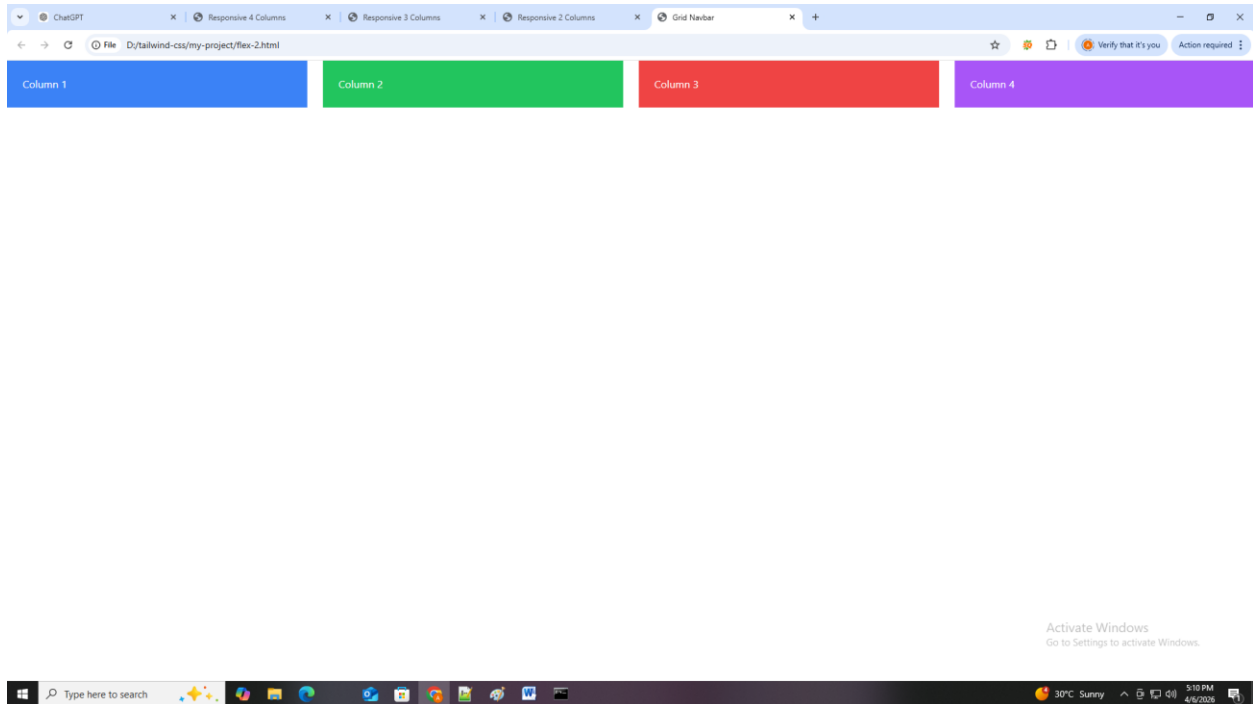
- `flex-col` → vertical stacking on mobile.
- `md:flex-row` → horizontal row on medium screens.
- `w-full` → each column takes full width on small screens.
- `md:w-1/3` → each column is 33.33% width on medium+ screens.

☐ Responsive: **1 column on mobile, 3 columns on desktop.**

5. Four Columns (Fixed)

```
<div class="flex gap-6">  
  <div class="w-1/4 bg-blue-500 text-white p-6">Column 1</div>  
  <div class="w-1/4 bg-green-500 text-white p-6">Column 2</div>  
  <div class="w-1/4 bg-red-500 text-white p-6">Column 3</div>  
  <div class="w-1/4 bg-purple-500 text-white p-6">Column 4</div>  
</div>
```

- `w-1/4` → each column is 25% width.
- `flex + gap-6` → horizontal row with spacing.
- Fixed 4-column layout, no responsiveness.



6. Four Columns (Responsive)

```
<div class="flex flex-col md:flex-row gap-6">  
  <div class="w-full sm:w-1/2 md:w-1/4 bg-blue-500 p-6">1</div>  
  <div class="w-full sm:w-1/2 md:w-1/4 bg-green-500 p-6">2</div>  
  <div class="w-full sm:w-1/2 md:w-1/4 bg-red-500 p-6">3</div>  
  <div class="w-full sm:w-1/2 md:w-1/4 bg-purple-500 p-6">4</div>  
</div>
```

Explanation:-

- `flex-col` → vertical stack on small screens.
- `md:flex-row` → horizontal layout on medium screens.
- `w-full` → full width on mobile.
- `sm:w-1/2` → 2 columns on small screens ($\geq 640\text{px}$).
- `md:w-1/4` → 4 columns on medium screens ($\geq 768\text{px}$).

□ Fully responsive:

- Mobile: 1 column
 - Small screens: 2 columns
 - Medium+ screens: 4 columns
-

📌 Key Takeaways

1. `flex` → enables flex container.
2. `flex-col` / `flex-row` → vertical vs horizontal layout.
3. `w-{fraction}` → sets width as fraction of container.
4. `gap-{n}` → spacing between flex items.
5. Responsive prefixes (`sm:`, `md:`, `lg:`) let you **change layout at breakpoints**.
6. Stack + width + responsive classes → build mobile-first layouts easily.

And then you can try it layout.html file :-

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <link href="./dist/output.css" rel="stylesheet">

  <title>Tailwind v4 Layout</title>

</head>

<body class="bg-slate-50 text-slate-800 min-h-screen flex flex-col">

  <!-- Header -->

  <header class="bg-white border-b border-slate-200 py-4 shadow-sm">

    <div class="container mx-auto px-4 flex justify-between items-center">

      <h1 class="text-2xl font-bold text-sky-600">MyBrand</h1>

      <nav class="space-x-6 font-medium">

        <a href="#" class="hover:text-sky-600 transition">Home</a>

        <a href="#" class="hover:text-sky-600 transition">About</a>

        <a href="#" class="hover:text-sky-600 transition">Contact</a>

      </nav>

    </div>

  </header>

  <!-- Main Container -->

  <main class="container mx-auto px-4 py-12 flex-grow">
```

```
<h2 class="text-3xl font-bold mb-8 text-center">Our Features</h2>
```

```
<!-- 3-Column Grid -->
```

```
<div class="grid grid-cols-1 md:grid-cols-3 gap-8">
```

```
<!-- Column 1 -->
```

```
<div class="bg-white p-6 rounded-xl shadow-sm border border-slate-100 hover:shadow-md transition">
```

```
<div class="w-12 h-12 bg-sky-100 text-sky-600 rounded-lg flex items-center justify-center mb-4">1</div>
```

```
<h3 class="text-xl font-semibold mb-2">Fast Setup</h3>
```

```
<p class="text-slate-600">Tailwind v4 is zero-config and lightning fast on your Windows PC.</p>
```

```
</div>
```

```
<!-- Column 2 -->
```

```
<div class="bg-white p-6 rounded-xl shadow-sm border border-slate-100 hover:shadow-md transition">
```

```
<div class="w-12 h-12 bg-purple-100 text-purple-600 rounded-lg flex items-center justify-center mb-4">2</div>
```

```
<h3 class="text-xl font-semibold mb-2">Responsive</h3>
```

```
<p class="text-slate-600">The `md:grid-cols-3` class automatically handles mobile and desktop views.</p>
```

```
</div>
```

```
<!-- Column 3 -->
```

```
<div class="bg-white p-6 rounded-xl shadow-sm border border-slate-100 hover:shadow-md transition">
```

```
<div class="w-12 h-12 bg-emerald-100 text-emerald-600 rounded-lg flex items-center justify-center mb-4">3</div>
```

```
<h3 class="text-xl font-semibold mb-2">Modern CSS</h3>
```

```
<p class="text-slate-600">Built using the latest CSS-first engine for better performance.</p>
```

```
</div>
```

```
</div>
```

```
</main>
```

```
<!-- Footer -->
```

```
<footer class="bg-slate-900 text-slate-400 py-8">
```

```
<div class="container mx-auto px-4 text-center">
```

```
<p>&copy; 2024 My Tailwind Project. All rights reserved.</p>
```

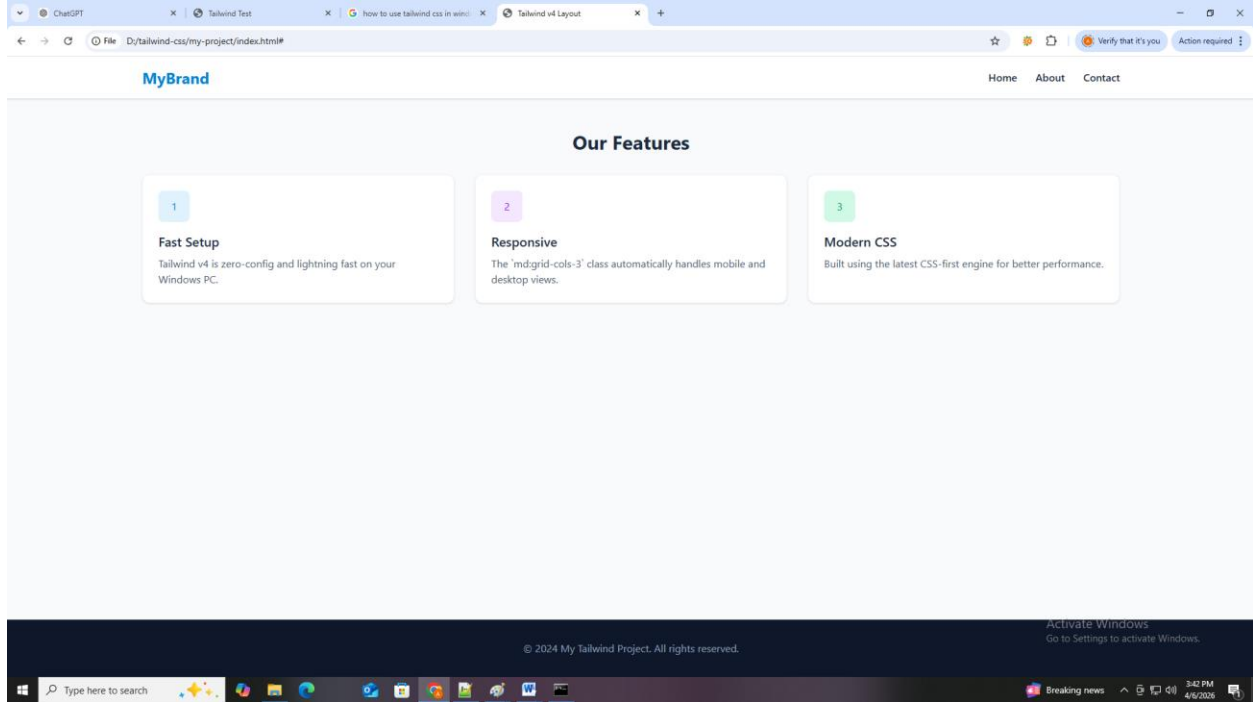
```
</div>
```

```
</footer>
```

```
</body>
```

```
</html>
```

Output:-



Create a **ready-to-use 5-page website structure in Tailwind CSS** with **Navbar, Header, Container, Footer**, and pages: **Home, About, Services, Contact**. This will be a **static HTML website using Tailwind CDN**, so you can just open it in your browser—no Node.js setup needed.

Folder Structure

tailwind-website/

```
|
├── index.html           (Home)
├── about.html          (About)
├── services.html       (Services)
├── contact.html        (Contact)
├── assets/
│   └── style.css       (Optional custom CSS, minimal needed)
```

1 Navbar (Reusable in all pages)

```
<!-- Navbar -->
<nav class="bg-gray-800 text-white">
  <div class="container mx-auto flex justify-between items-center p-4">
    <a href="index.html" class="text-2xl font-bold">MyWebsite</a>
    <ul class="flex space-x-6">
      <li><a href="index.html" class="hover:text-gray-300">Home</a></li>
      <li><a href="about.html" class="hover:text-gray-300">About</a></li>
      <li><a href="services.html" class="hover:text-gray-
300">Services</a></li>
      <li><a href="contact.html" class="hover:text-gray-300">Contact</a></li>
    </ul>
  </div>
</nav>
```

2 Home Page ([index.html](#))

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Home - MyWebsite</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="flex flex-col min-h-screen">

  <!-- Navbar -->
  <nav class="bg-gray-800 text-white">
    <div class="container mx-auto flex justify-between items-center p-4">
      <a href="index.html" class="text-2xl font-bold">MyWebsite</a>
      <ul class="flex space-x-6">
        <li><a href="index.html" class="hover:text-gray-300">Home</a></li>
        <li><a href="about.html" class="hover:text-gray-300">About</a></li>
        <li><a href="services.html" class="hover:text-gray-
```

```

300">Services</a></li>
      <li><a href="contact.html" class="hover:text-gray-
300">Contact</a></li>
    </ul>
  </div>
</nav>

<!-- Header -->
<header class="bg-blue-500 text-white py-20 text-center">
  <h1 class="text-5xl font-bold mb-4">Welcome to MyWebsite</h1>
  <p class="text-xl">We provide amazing services to make your life
easier</p>
  <a href="contact.html" class="mt-6 inline-block bg-white text-blue-500
font-bold py-2 px-6 rounded hover:bg-gray-200">Get Started</a>
</header>

<!-- Main Container -->
<main class="container mx-auto flex-1 p-8">
  <section class="mb-12">
    <h2 class="text-3xl font-bold mb-4">Our Services</h2>
    <div class="grid grid-cols-1 md:grid-cols-3 gap-6">
      <div class="bg-gray-100 p-6 rounded shadow">Service 1</div>
      <div class="bg-gray-100 p-6 rounded shadow">Service 2</div>
      <div class="bg-gray-100 p-6 rounded shadow">Service 3</div>
    </div>
  </section>

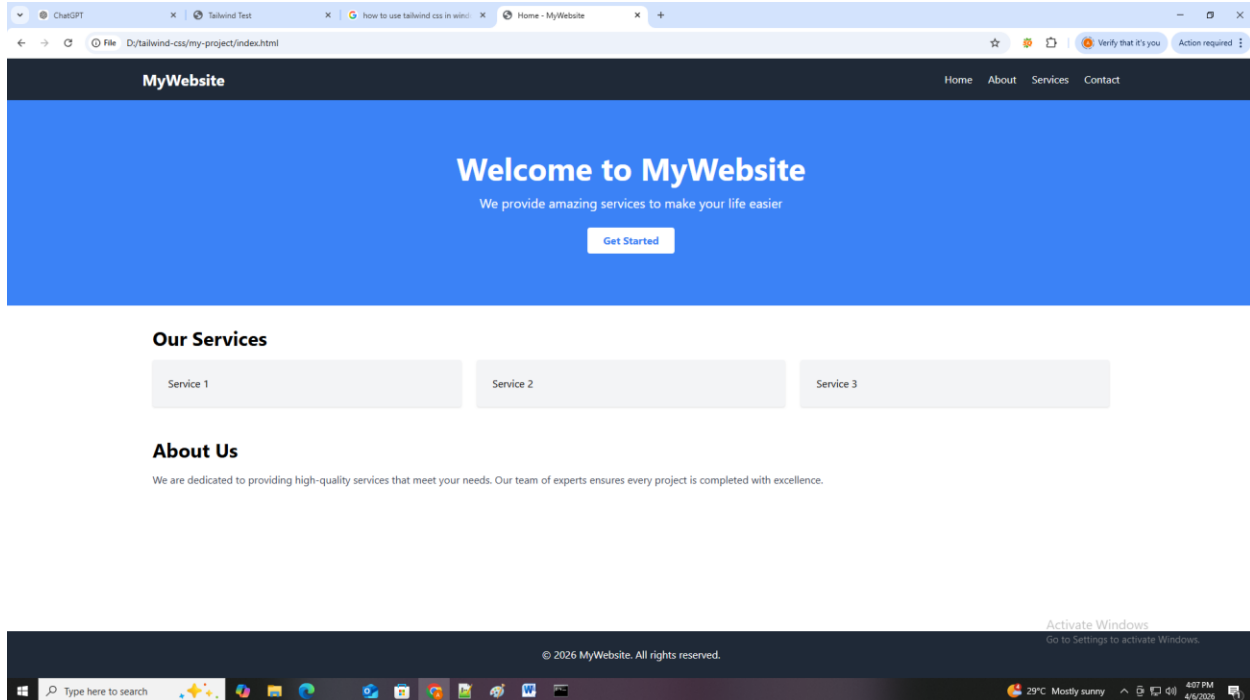
  <section>
    <h2 class="text-3xl font-bold mb-4">About Us</h2>
    <p class="text-gray-700">We are dedicated to providing high-quality
services that meet your needs. Our team of experts ensures every project is
completed with excellence.</p>
  </section>
</main>

<!-- Footer -->
<footer class="bg-gray-800 text-white p-6 text-center">
  &copy; 2026 MyWebsite. All rights reserved.
</footer>

</body>
</html>

```

Output:-



3 About Page (about.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>About - MyWebsite</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="flex flex-col min-h-screen">

  <!-- Navbar -->
  <nav class="bg-gray-800 text-white">
    <div class="container mx-auto flex justify-between items-center p-4">
      <a href="index.html" class="text-2xl font-bold">MyWebsite</a>
      <ul class="flex space-x-6">
        <li><a href="index.html" class="hover:text-gray-300">Home</a></li>
        <li><a href="about.html" class="hover:text-gray-300 font-
bold">About</a></li>
        <li><a href="services.html" class="hover:text-gray-
300">Services</a></li>
        <li><a href="contact.html" class="hover:text-gray-
300">Contact</a></li>
      </ul>
    </div>
  </nav>

  <!-- Header -->
  <header class="bg-green-500 text-white py-20 text-center">
```

```

    <h1 class="text-4xl font-bold mb-4">About Us</h1>
    <p class="text-xl">Learn more about our mission and team</p>
</header>

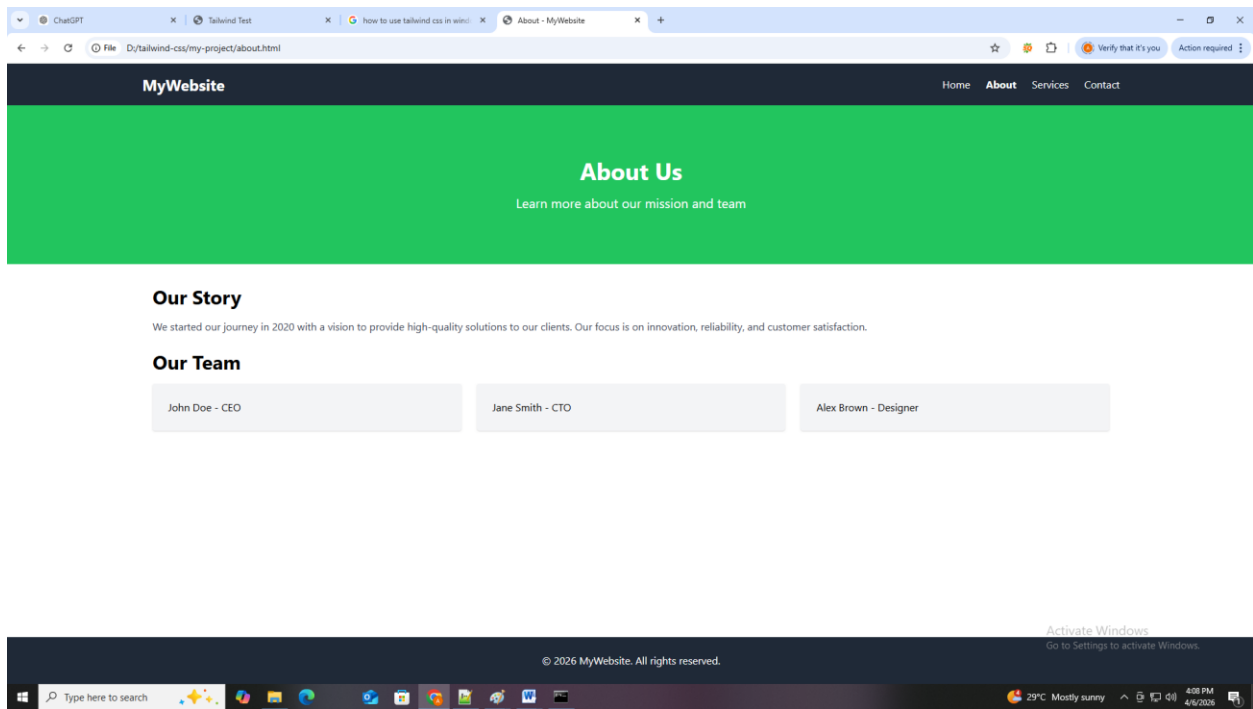
<!-- Main Container -->
<main class="container mx-auto flex-1 p-8">
  <section>
    <h2 class="text-3xl font-bold mb-4">Our Story</h2>
    <p class="text-gray-700 mb-6">We started our journey in 2020 with a
vision to provide high-quality solutions to our clients. Our focus is on
innovation, reliability, and customer satisfaction.</p>

    <h2 class="text-3xl font-bold mb-4">Our Team</h2>
    <div class="grid grid-cols-1 md:grid-cols-3 gap-6">
      <div class="bg-gray-100 p-6 rounded shadow">John Doe - CEO</div>
      <div class="bg-gray-100 p-6 rounded shadow">Jane Smith - CTO</div>
      <div class="bg-gray-100 p-6 rounded shadow">Alex Brown -
Designer</div>
    </div>
  </section>
</main>

<!-- Footer -->
<footer class="bg-gray-800 text-white p-6 text-center">
  &copy; 2026 MyWebsite. All rights reserved.
</footer>

</body>
</html>

```



4 Services Page (services.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Services - MyWebsite</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="flex flex-col min-h-screen">

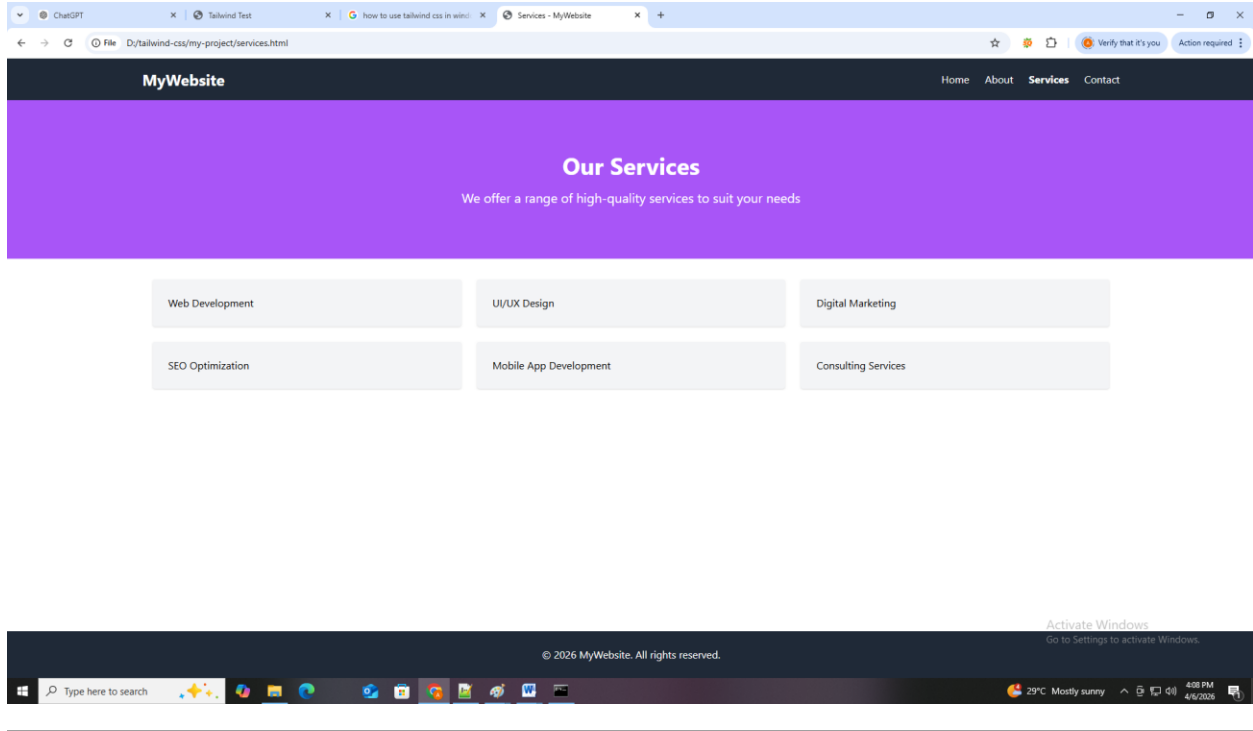
  <!-- Navbar -->
  <nav class="bg-gray-800 text-white">
    <div class="container mx-auto flex justify-between items-center p-4">
      <a href="index.html" class="text-2xl font-bold">MyWebsite</a>
      <ul class="flex space-x-6">
        <li><a href="index.html" class="hover:text-gray-300">Home</a></li>
        <li><a href="about.html" class="hover:text-gray-300">About</a></li>
        <li><a href="services.html" class="hover:text-gray-300 font-
bold">Services</a></li>
        <li><a href="contact.html" class="hover:text-gray-
300">Contact</a></li>
      </ul>
    </div>
  </nav>

  <!-- Header -->
  <header class="bg-purple-500 text-white py-20 text-center">
    <h1 class="text-4xl font-bold mb-4">Our Services</h1>
    <p class="text-xl">We offer a range of high-quality services to suit your
needs</p>
  </header>

  <!-- Main Container -->
  <main class="container mx-auto flex-1 p-8">
    <div class="grid grid-cols-1 md:grid-cols-3 gap-6">
      <div class="bg-gray-100 p-6 rounded shadow">Web Development</div>
      <div class="bg-gray-100 p-6 rounded shadow">UI/UX Design</div>
      <div class="bg-gray-100 p-6 rounded shadow">Digital Marketing</div>
      <div class="bg-gray-100 p-6 rounded shadow">SEO Optimization</div>
      <div class="bg-gray-100 p-6 rounded shadow">Mobile App
Development</div>
      <div class="bg-gray-100 p-6 rounded shadow">Consulting Services</div>
    </div>
  </main>

  <!-- Footer -->
  <footer class="bg-gray-800 text-white p-6 text-center">
    &copy; 2026 MyWebsite. All rights reserved.
  </footer>

</body>
</html>
```



5 Contact Page (contact.html)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Contact - MyWebsite</title>
  <script src="https://cdn.tailwindcss.com"></script>
</head>
<body class="flex flex-col min-h-screen">

  <!-- Navbar -->
  <nav class="bg-gray-800 text-white">
    <div class="container mx-auto flex justify-between items-center p-4">
      <a href="index.html" class="text-2xl font-bold">MyWebsite</a>
      <ul class="flex space-x-6">
        <li><a href="index.html" class="hover:text-gray-300">Home</a></li>
        <li><a href="about.html" class="hover:text-gray-300">About</a></li>
        <li><a href="services.html" class="hover:text-gray-300">Services</a></li>
        <li><a href="contact.html" class="hover:text-gray-300 font-
bold">Contact</a></li>
      </ul>
    </div>
  </nav>

  <!-- Header -->
  <header class="bg-yellow-500 text-white py-20 text-center">
    <h1 class="text-4xl font-bold mb-4">Contact Us</h1>
    <p class="text-xl">Get in touch with our team</p>
  </header>
```

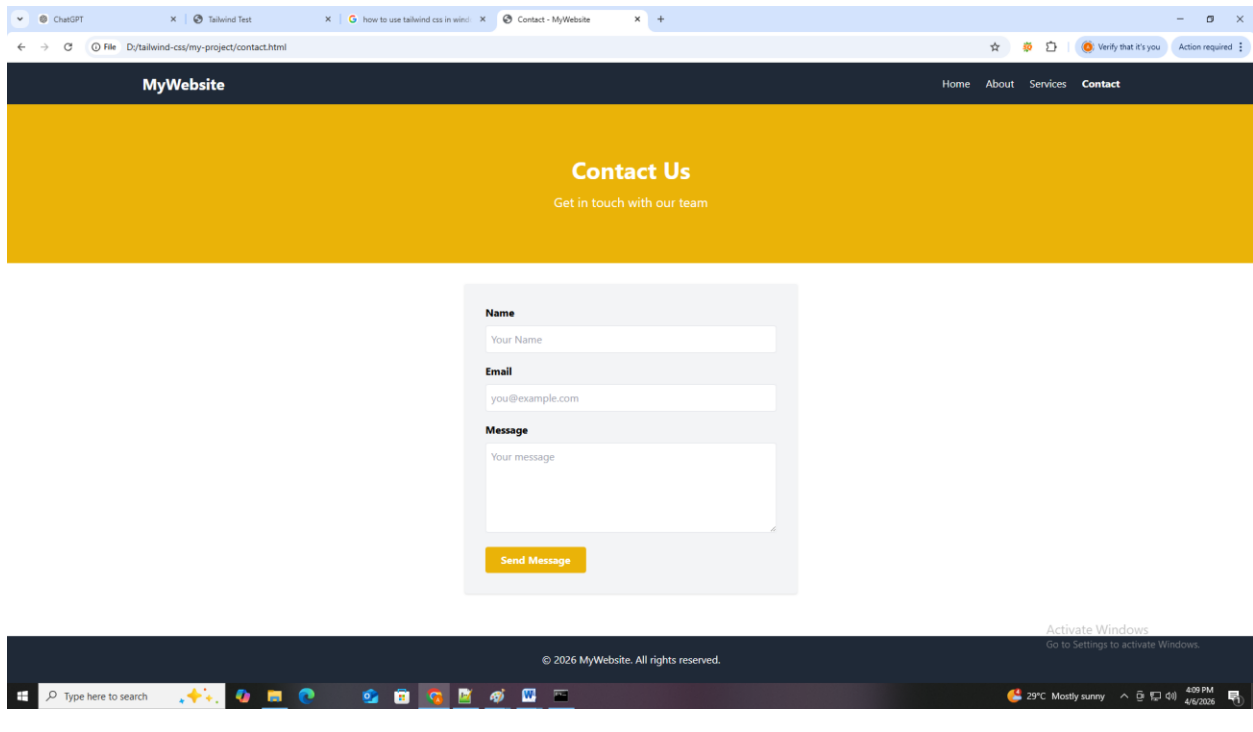
```

<!-- Main Container -->
<main class="container mx-auto flex-1 p-8">
  <form class="max-w-lg mx-auto bg-gray-100 p-8 rounded shadow space-y-4">
    <div>
      <label class="block mb-2 font-bold" for="name">Name</label>
      <input class="w-full p-2 border rounded" type="text" id="name"
placeholder="Your Name">
    </div>
    <div>
      <label class="block mb-2 font-bold" for="email">Email</label>
      <input class="w-full p-2 border rounded" type="email" id="email"
placeholder="you@example.com">
    </div>
    <div>
      <label class="block mb-2 font-bold" for="message">Message</label>
      <textarea class="w-full p-2 border rounded" id="message" rows="5"
placeholder="Your message"></textarea>
    </div>
    <button class="bg-yellow-500 text-white font-bold py-2 px-6 rounded
hover:bg-yellow-600" type="submit">Send Message</button>
  </form>
</main>

<!-- Footer -->
<footer class="bg-gray-800 text-white p-6 text-center">
  &copy; 2026 MyWebsite. All rights reserved.
</footer>

</body>
</html>

```



📄 Features of This Template

- Responsive Navbar on all pages
- Header with Hero section
- Content container sections (main)
- Grid layout for services and team
- Footer consistent across all pages
- Tailwind CDN only → no setup required
- Mobile-friendly and clean design

Let's break down the **Tailwind CSS code from your 5-page website** so you can **understand it fully and modify it confidently**. I'll explain the basics page by page, focusing on **layout, spacing, typography, and Tailwind utilities**.

1 📄 Navbar Basics

```
<nav class="bg-gray-800 text-white">
  <div class="container mx-auto flex justify-between items-center p-4">
    <a href="index.html" class="text-2xl font-bold">MyWebsite</a>
    <ul class="flex space-x-6">
      <li><a href="index.html" class="hover:text-gray-300">Home</a></li>
      ...
    </ul>
  </div>
</nav>
```

Tailwind Concepts Used:

- `bg-gray-800` → background color (dark gray)
- `text-white` → text color
- `container mx-auto` → centers content and gives max width
- `flex justify-between items-center` → flexbox layout:
 - `justify-between` → space between brand and menu
 - `items-center` → vertically center items
- `p-4` → padding

- `space-x-6` → horizontal spacing between menu items
- `hover:text-gray-300` → color on hover

Takeaway: Tailwind replaces CSS classes like `display: flex; justify-content: space-between;` with `flex` utilities.

2 📦 Header / Hero Section

```
<header class="bg-blue-500 text-white py-20 text-center">
  <h1 class="text-5xl font-bold mb-4">Welcome</h1>
  <p class="text-xl">We provide amazing services</p>
  <a href="contact.html" class="mt-6 inline-block bg-white text-blue-500
font-bold py-2 px-6 rounded hover:bg-gray-200">Get Started</a>
</header>
```

Tailwind Concepts Used:

- `bg-blue-500` → blue background
- `text-white` → white text
- `py-20` → vertical padding top & bottom (5rem)
- `text-center` → center-align text
- `text-5xl` → font size
- `mb-4` → margin-bottom
- `inline-block` → inline block for button styling
- `rounded` → border-radius
- `hover:bg-gray-200` → hover effect

Takeaway: Tailwind makes typography, spacing, colors, and hover states **one-liners**, no CSS files needed.

3 📦 Container and Grid Layouts

```
<div class="container mx-auto flex-1 p-8">
  <div class="grid grid-cols-1 md:grid-cols-3 gap-6">
    <div class="bg-gray-100 p-6 rounded shadow">Service 1</div>
    <div class="bg-gray-100 p-6 rounded shadow">Service 2</div>
  </div>
</div>
```

Tailwind Concepts Used:

- `container mx-auto` → center container with max width

- flex-1 → expands to fill available vertical space (useful with footer)
- p-8 → padding inside container
- grid grid-cols-1 md:grid-cols-3 → grid layout:
 - grid-cols-1 → single column on mobile
 - md:grid-cols-3 → 3 columns on medium+ screens
- gap-6 → spacing between grid items
- bg-gray-100, p-6, rounded, shadow → card styling

Takeaway: Tailwind makes **responsive grids** very easy. No media queries needed; just use breakpoints like sm:, md:, lg:.

4 Footer

```
<footer class="bg-gray-800 text-white p-6 text-center">
  &copy; 2026 MyWebsite. All rights reserved.
</footer>
```

Tailwind Concepts Used:

- bg-gray-800 → dark background
- text-white → white text
- p-6 → padding
- text-center → center text

Takeaway: Tailwind makes simple sections like footers effortless with **spacing + color + alignment utilities**.

5 Forms (Contact Page)

```
<form class="max-w-lg mx-auto bg-gray-100 p-8 rounded shadow space-y-4">
  <input class="w-full p-2 border rounded" type="text">
  <button class="bg-yellow-500 text-white py-2 px-6 rounded hover:bg-yellow-600">Send</button>
</form>
```

Tailwind Concepts Used:

- max-w-lg → max width for form
- mx-auto → horizontally center
- space-y-4 → vertical spacing between form fields
- w-full → full-width input fields

- `border rounded` → simple border and rounded corners
- `hover:bg-yellow-600` → button hover effect

Takeaway: Forms are just **flexible containers** with padding, borders, and spacing utilities.

6 Responsive Design Basics

Tailwind uses **breakpoint prefixes**:

- `sm:` → $\geq 640\text{px}$
- `md:` → $\geq 768\text{px}$
- `lg:` → $\geq 1024\text{px}$
- `xl:` → $\geq 1280\text{px}$

Example:

```
<div class="grid grid-cols-1 md:grid-cols-3 gap-6">  
  ...  
</div>
```

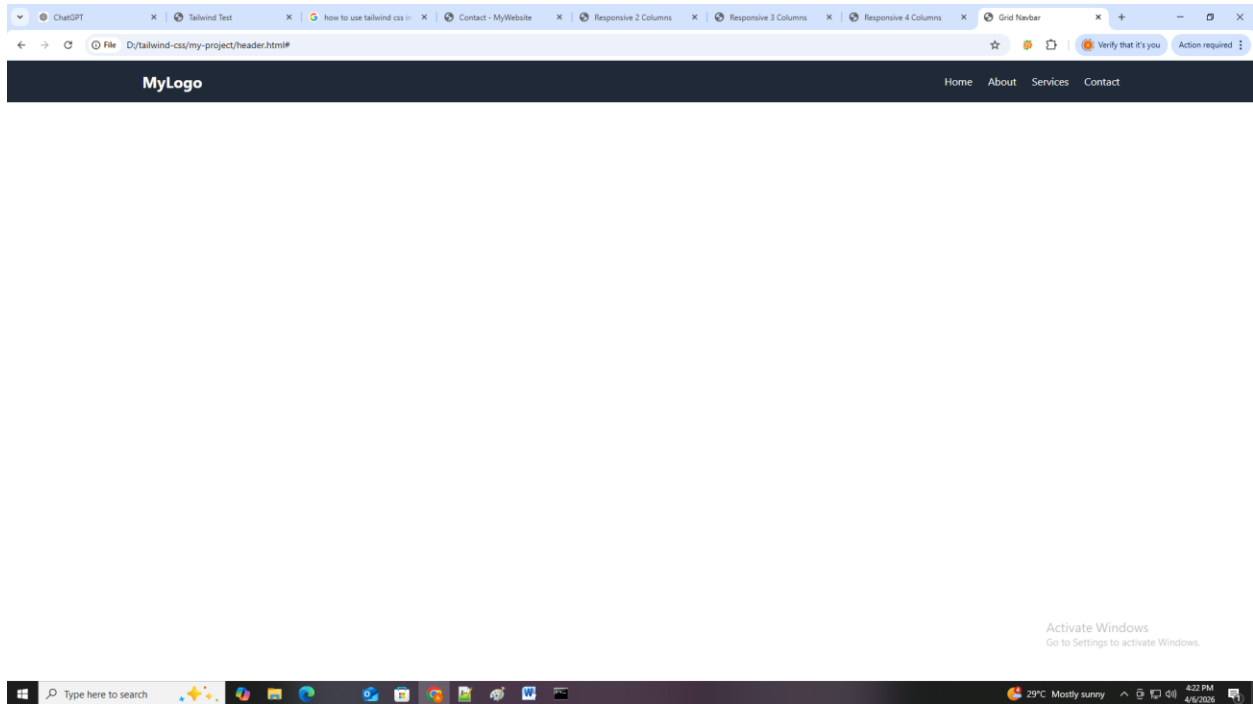
- Mobile: 1 column
- Tablet/Desktop (`md:`): 3 columns

Takeaway: Responsive design is just a **prefix**, no media query boilerplate needed.

7 Quick Glossary of Tailwind Utilities Used

Concept	Tailwind Class Example	Purpose
Flexbox	<code>flex, justify-center</code>	Layout horizontal/vertical
Grid	<code>grid, grid-cols-3</code>	Multi-column layouts
Spacing	<code>p-6, m-4, space-x-4</code>	Padding, margin, spacing
Colors	<code>bg-gray-100, text-white</code>	Background & text colors
Typography	<code>text-xl, font-bold</code>	Font size, weight
Rounded	<code>rounded, rounded-lg</code>	Border radius
Shadows	<code>shadow, shadow-lg</code>	Box shadow
Hover	<code>hover:bg-gray-200</code>	Hover effects
Responsive	<code>md:grid-cols-3, lg:p-8</code>	Change layout on screen size
Container	<code>container mx-auto</code>	Center content with max width

For header :-



Header.html layout using Grid system file :-

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Grid Navbar</title>
```

```
<script src="https://cdn.tailwindcss.com"></script>
```

```
</head>
```

```
<body>
```

```
<!-- Navbar -->
```

```
<nav class="bg-gray-800 text-white">
```

```
<div class="container mx-auto p-4 grid grid-cols-2 items-center">
```

```
<!-- Column 1: Logo -->
```

```
<div class="text-2xl font-bold">
```

```
MyLogo
```

```
</div>
```

```
<!-- Column 2: Menu -->
```

```
<ul class="flex justify-end space-x-6">
```

```
<li><a href="#" class="hover:text-gray-300">Home</a></li>
```

```
<li><a href="#" class="hover:text-gray-300">About</a></li>
```

```
<li><a href="#" class="hover:text-gray-300">Services</a></li>
```

```
<li><a href="#" class="hover:text-gray-300">Contact</a></li>
```

```
</ul>
```

```
</div>
```

```
</nav>
```

```
</body>
```

```
</html>
```

How Grid Works Here

1 Create 2 Columns

`grid grid-cols-2`

- `grid` → enables CSS Grid
 - `grid-cols-2` → creates **2 equal columns**
 - Column 1 → Logo
 - Column 2 → Menu
-

2 Align Items Vertically

`items-center`

- Centers logo and menu vertically inside the navbar

3 Push Menu to Right

`<ul class="flex justify-end space-x-6">`

- `flex` → makes menu horizontal
- `justify-end` → moves menu to right side
- `space-x-6` → spacing between menu items

Responsive Grid Version (Important)

```
<nav class="bg-gray-800 text-white">
  <div class="container mx-auto p-4 grid grid-cols-1 md:grid-cols-2 items-
center">

    <!-- Logo -->
    <div class="text-2xl font-bold mb-4 md:mb-0">
      MyLogo
    </div>

    <!-- Menu -->
    <ul class="flex flex-col md:flex-row md:justify-end space-y-2 md:space-y-
0 md:space-x-6">
      <li><a href="#" class="hover:text-gray-300">Home</a></li>
      <li><a href="#" class="hover:text-gray-300">About</a></li>
      <li><a href="#" class="hover:text-gray-300">Services</a></li>
      <li><a href="#" class="hover:text-gray-300">Contact</a></li>
    </ul>

  </div>
</nav>
```

Responsive Behavior

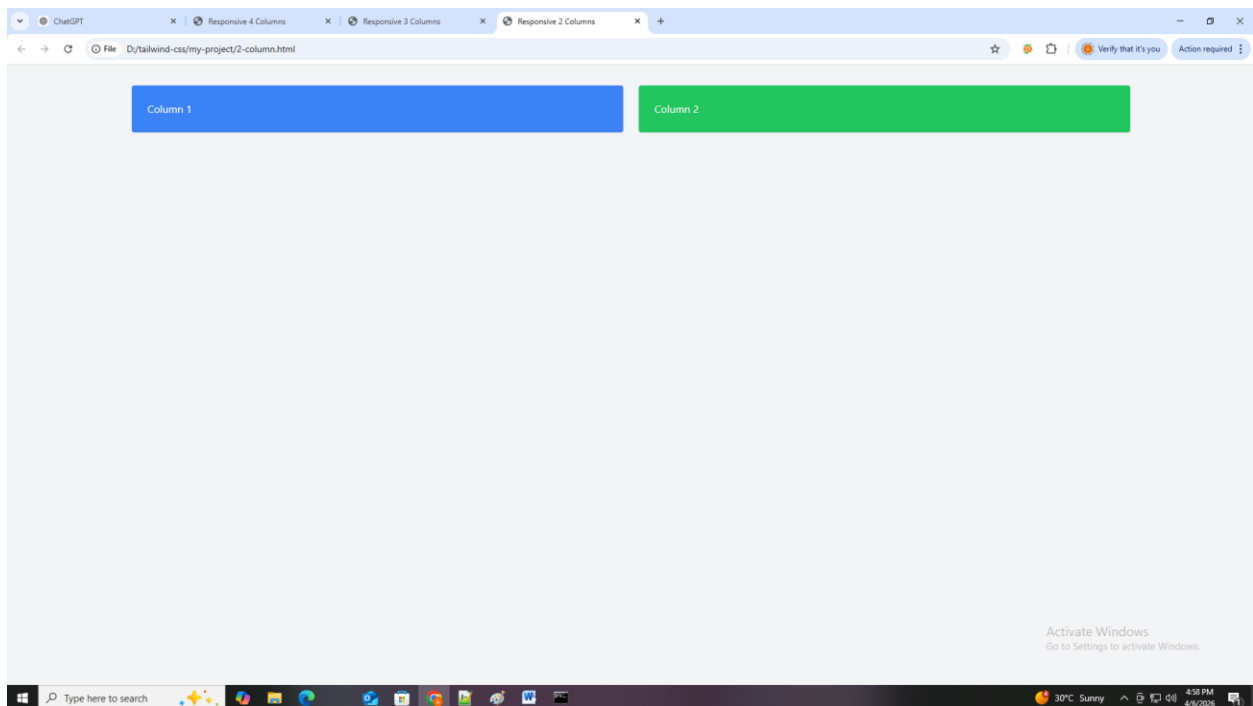
Screen Size	Layout
Mobile	1 column (logo on top, menu below)
Desktop	2 columns (logo left, menu right)

□ Key Grid Concepts You Learned

Class	Meaning
<code>grid</code>	Enable grid layout
<code>grid-cols-2</code>	Create 2 columns
<code>grid-cols-1 md:grid-cols-2</code>	Responsive columns
<code>items-center</code>	Vertical alignment
<code>justify-end</code>	Move content to right

Grid layout 2 column Practice :-

```
<div class="container mx-auto">  
  <div class="grid grid-cols-1 md:grid-cols-2 gap-6">  
    <div class="bg-blue-500 text-white p-6 rounded shadow">Column 1</div>  
    <div class="bg-green-500 text-white p-6 rounded shadow">Column 2</div>  
  </div>  
</div>
```

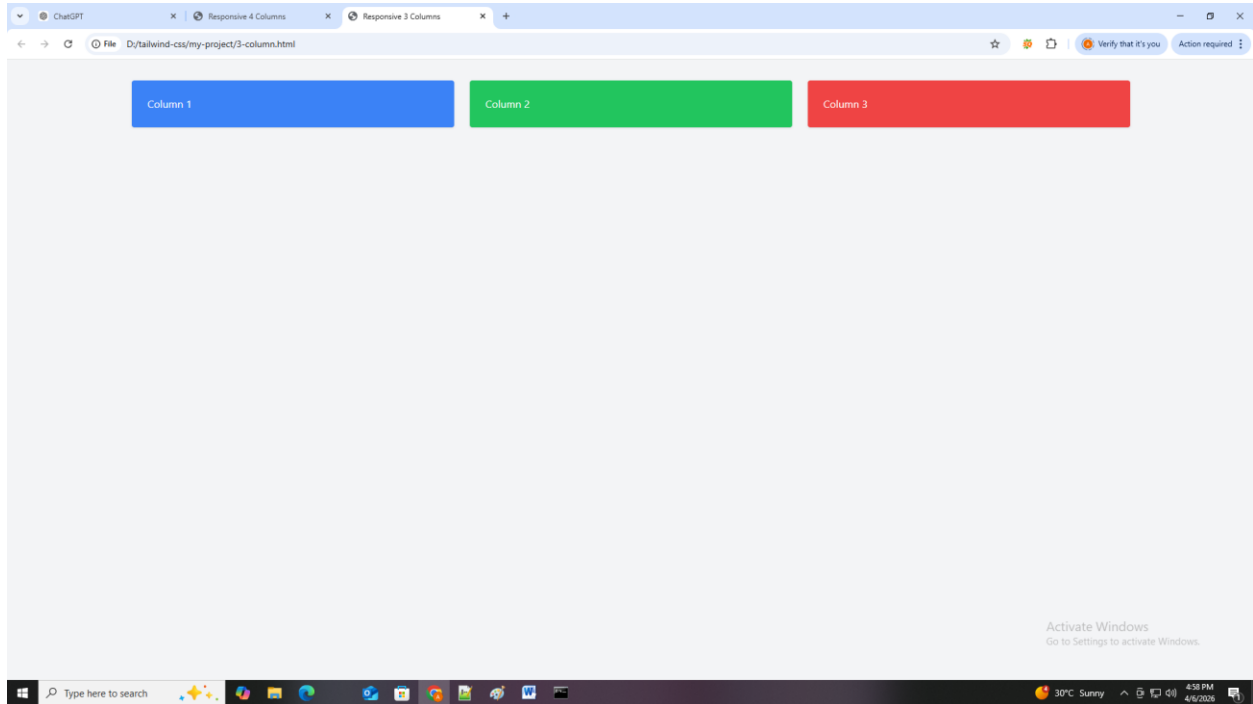


Grid Layout 3 Column Practice :-

```
<div class="container mx-auto">  
  <div class="grid grid-cols-1 md:grid-cols-3 gap-6">  
    <div class="bg-blue-500 text-white p-6 rounded shadow">Column 1</div>  
    <div class="bg-green-500 text-white p-6 rounded shadow">Column 2</div>  
    <div class="bg-red-500 text-white p-6 rounded shadow">Column 3</div>
```

</div>

</div>



Grid Layout 4 Column Practice:-

```
<div class="container mx-auto">
```

```
  <div class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-4 gap-6">
```

```
    <div class="bg-blue-500 text-white p-6 rounded shadow">Column 1</div>
```

```
    <div class="bg-green-500 text-white p-6 rounded shadow">Column 2</div>
```

```
    <div class="bg-red-500 text-white p-6 rounded shadow">Column 3</div>
```

```
    <div class="bg-purple-500 text-white p-6 rounded shadow">Column 4</div>
```

</div>

</div>

