

Lesson 06 Demo 06

Demonstrating Flex Behavior in Tailwind CSS

Objective: To demonstrate the implementation of flexible layouts using Tailwind CSS Flex utilities by configuring column alignment, adjusting spacing with gaps, and managing content distribution with justify-* and items-* properties to create a structured and responsive design

Tools required: Visual Studio Code

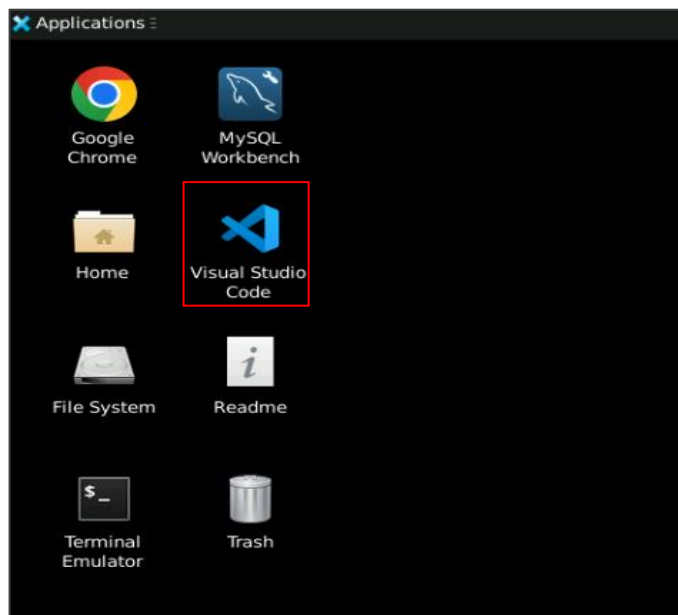
Prerequisites: HTML Basics

Steps to be followed:

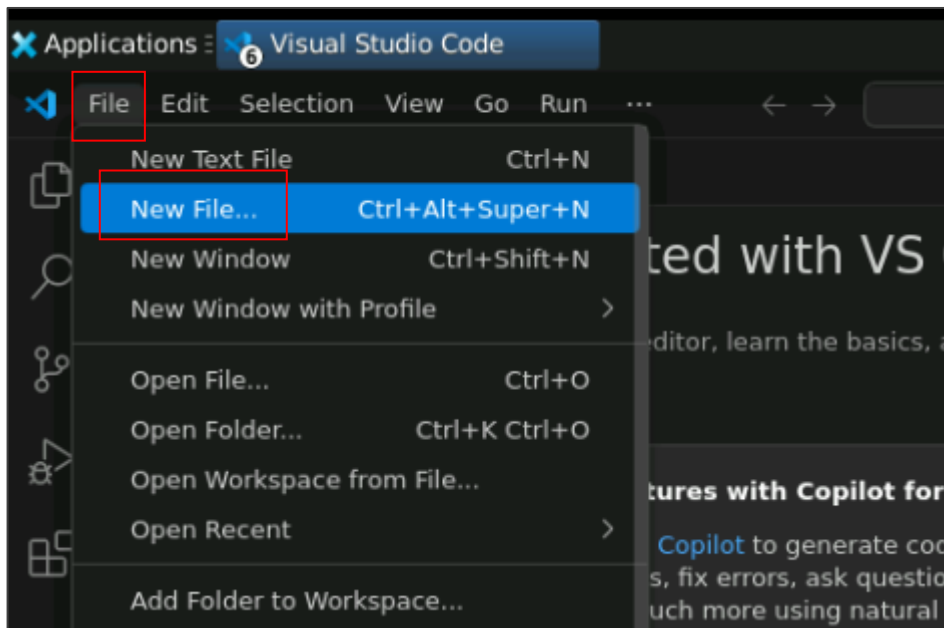
1. Open Visual Studio Code and create index.html
2. Implement the flex layout

Step 1: Open Visual Studio Code and create index.html

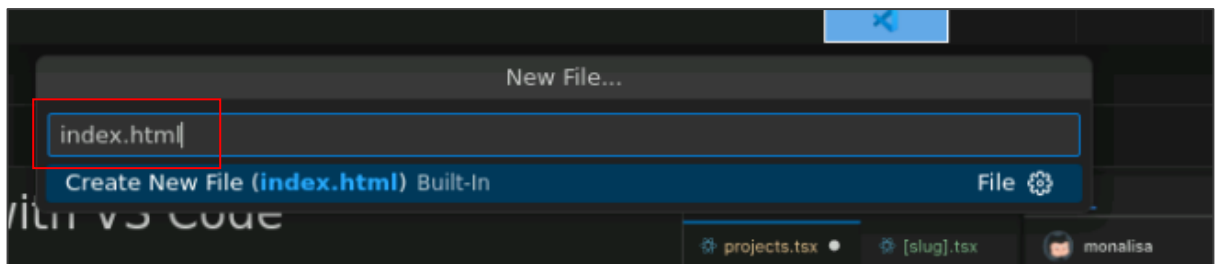
1.1 Open Visual Studio Code



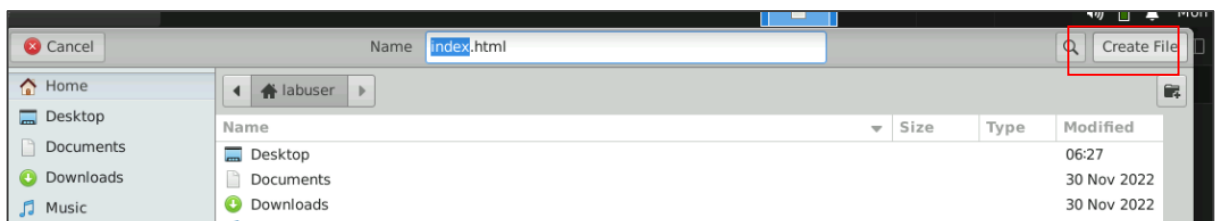
1.2 Click on **File** and then select the **New File...** option



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



1.4 Click on **Create File**

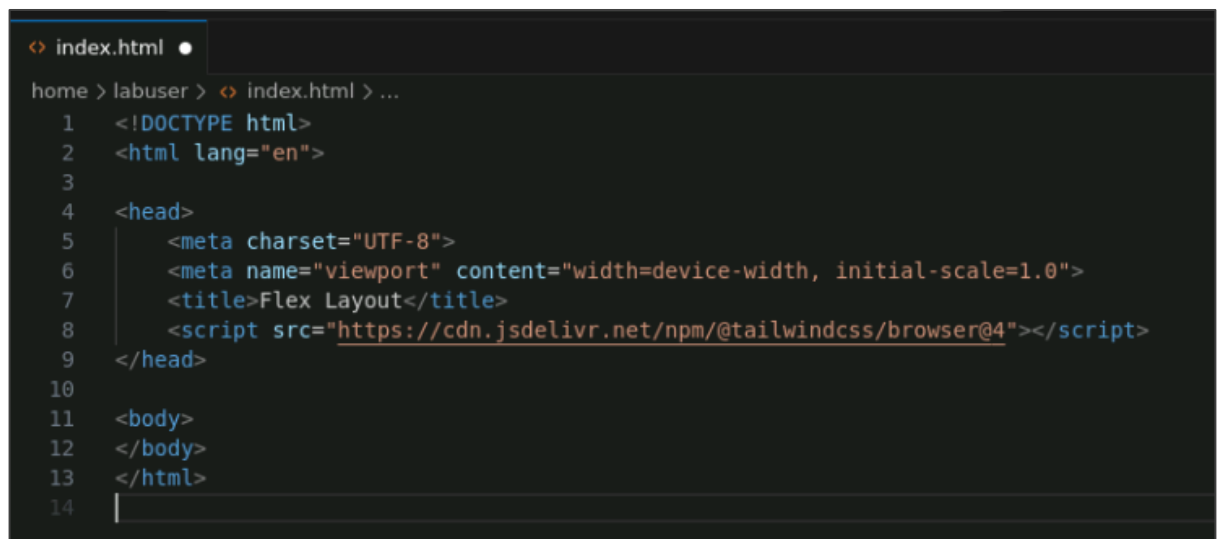


1.5 Insert the following base HTML structure into the index.html file:

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

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

<body>
</body>
</html>
```

A screenshot of a code editor with a dark theme. The file name 'index.html' is shown in the top tab. The editor content shows the following HTML code with line numbers 1 through 14 on the left margin: 1 <!DOCTYPE html>, 2 <html lang="en">, 3 (empty line), 4 <head>, 5 <meta charset="UTF-8">, 6 <meta name="viewport" content="width=device-width, initial-scale=1.0">, 7 <title>Flex Layout</title>, 8 <script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>, 9 </head>, 10 (empty line), 11 <body>, 12 </body>, 13 </html>, 14 (empty line). The cursor is at the end of line 14.

```
index.html
home > labuser > index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5    <meta charset="UTF-8">
6    <meta name="viewport" content="width=device-width, initial-scale=1.0">
7    <title>Flex Layout</title>
8    <script src="https://cdn.jsdelivr.net/npm/@tailwindcss/browser@4"></script>
9  </head>
10
11 <body>
12 </body>
13 </html>
14
```

Step 2: Implement the flex layout

2.1 Modify the index.html file to incorporate the flex layout, using the following code:

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

<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Flex Layout</title>
  <script src="https://unpkg.com/@tailwindcss/browser@4"></script>
</head>

<body>
  <div class="container mx-auto p-4">
    <h1 class="text-5xl mb-6">Explore Flex Layout Options</h1>

    <!-- Justify Content Examples -->
    <h2 class="text-2xl mt-4 mb-2">1. Justify Content</h2>

    <div class="flex justify-start bg-gray-200 p-4 mb-2">
      <div class="bg-blue-500 text-white px-4 py-2 mr-2">Start</div>
      <div class="bg-blue-500 text-white px-4 py-2 mr-2">Start</div>
    </div>

    <div class="flex justify-end bg-gray-200 p-4 mb-2">
      <div class="bg-green-500 text-white px-4 py-2 mr-2">End</div>
      <div class="bg-green-500 text-white px-4 py-2 mr-2">End</div>
    </div>

    <div class="flex justify-center bg-gray-200 p-4 mb-2">
      <div class="bg-red-500 text-white px-4 py-2 mr-2">Center</div>
      <div class="bg-red-500 text-white px-4 py-2 mr-2">Center</div>
    </div>

    <div class="flex justify-around bg-gray-200 p-4 mb-2">
      <div class="bg-yellow-500 text-white px-4 py-2">Around</div>
      <div class="bg-yellow-500 text-white px-4 py-2">Around</div>
    </div>
```

```

<div class="flex justify-between bg-gray-200 p-4 mb-2">
  <div class="bg-purple-500 text-white px-4 py-2">Between</div>
  <div class="bg-purple-500 text-white px-4 py-2">Between</div>
</div>

<!-- Align Items Examples -->
<h2 class="text-2xl mt-6 mb-2">2. Align Items</h2>

<div class="flex items-start h-24 bg-gray-200 p-4 mb-2">
  <div class="bg-pink-500 text-white px-4 py-2 mr-2">Start</div>
  <div class="bg-pink-500 text-white px-4 py-2 mr-2">Start</div>
</div>

<div class="flex items-end h-24 bg-gray-200 p-4 mb-2">
  <div class="bg-indigo-500 text-white px-4 py-2 mr-2">End</div>
  <div class="bg-indigo-500 text-white px-4 py-2 mr-2">End</div>
</div>

<div class="flex items-center h-24 bg-gray-200 p-4 mb-2">
  <div class="bg-teal-500 text-white px-4 py-2 mr-2">Center</div>
  <div class="bg-teal-500 text-white px-4 py-2 mr-2">Center</div>
</div>
</div>
</body>

</html>

```

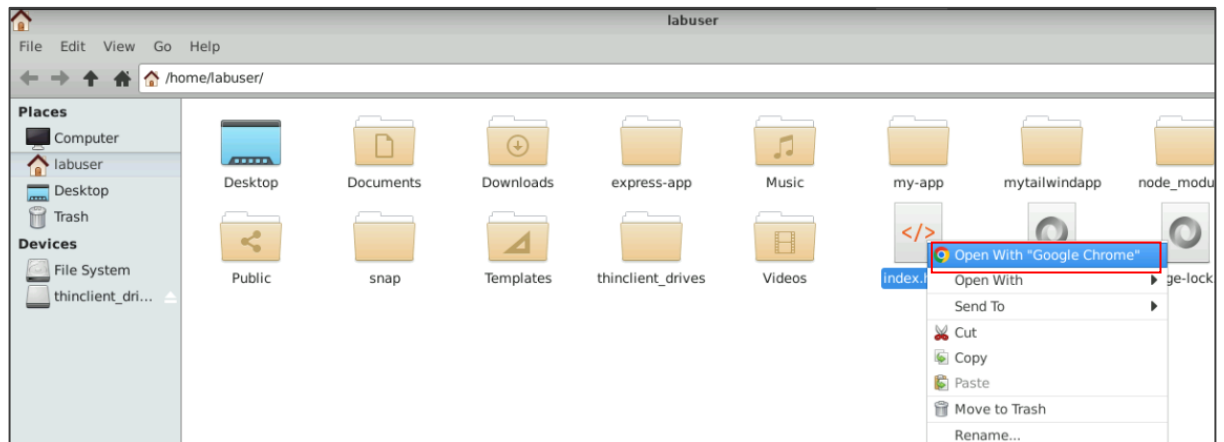
```

index.html x
home > labuser > index.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5    <meta charset="UTF-8" />
6    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7    <title>Flex Layout</title>
8    <script src="https://unpkg.com/@tailwindcss/browser@4"></script>
9  </head>
10
11 <body>
12   <div class="container mx-auto p-4">
13     <h1 class="text-5xl mb-6">Explore Flex Layout Options</h1>
14
15     <!-- Justify Content Examples -->
16     <h2 class="text-2xl mt-4 mb-2">1. Justify Content</h2>
17
18     <div class="flex justify-start bg-gray-200 p-4 mb-2">
19       <div class="bg-blue-500 text-white px-4 py-2 mr-2">Start</div>
20       <div class="bg-blue-500 text-white px-4 py-2 mr-2">Start</div>

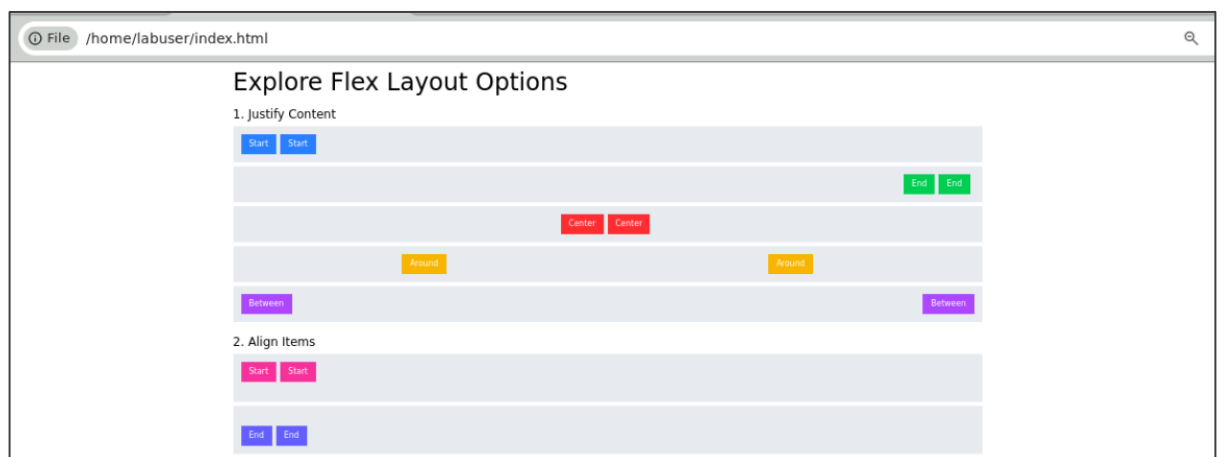
```

Ln 64, Col 1 Spaces: 4 UTF-8

2.2 Navigate to the index.html file, right-click on it, and select **Open With “Google Chrome”**



2.3 Verify that the displayed output correctly reflects the expected flex layout



By following these steps, you have successfully implemented flexible layouts using Tailwind CSS Flex utilities. This demonstration highlighted techniques for aligning and distributing content with flex, justify-*, and items-* properties, ensuring a responsive and well-structured design.