 <p>ÉCOLE NATIONALE SUPÉRIEURE D'ARTS ET MÉTIERS UNIVERSITÉ HASSAN II DE CASABLANCA</p>	<p>ÉCOLE NATIONALE SUPÉRIEURE D'ARTS ET MÉTIERS CASABLANCA</p>
	<p>Travaux Pratiques</p>

Filière : IAGI 1
Semestre : 6

Module : Technologies web
Matière : Front-END

Atelier 4: Designing a Portfolio Website with Tailwind CSS

Objective

By the end of this workshop, you will be able to:

1. Understand how to use Tailwind CSS to create a professional portfolio website.
2. Build a responsive layout with sections like "About Me," "Projects," and "Contact."
3. Apply best practices for structuring HTML and CSS in real-world projects.

Portfolio Website Design Proposal

1. Header Section


- **Background** : Dark gray (`bg-gray-900`) with white text.
- **Content** :
 - Left-aligned: The developer's name (e.g., "your name") in bold font.
 - Right-aligned: Navigation links ("About," "Projects," "Contact") with hover effects (`hover:text-gray-400`).
 - A prominent "Resume" button styled with a blue background (`bg-blue-500`) and rounded corners (`rounded`).

2. Hero Section

- **Background** : Light gray (`bg-gray-100`).
- **Content** :
 - Centered layout with a large heading: "Hi, I'm your name."
 - Subheading: "I'm a web developer specializing in creating beautiful, functional websites."
 - A call-to-action button: "View My Work" styled similarly to the header button.

3. About Me Section

- **Background** : White (`bg-white`).
- **Content** :
 - Centered heading: "About Me."
 - A brief paragraph introducing the developer.

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- A grid layout (2 columns on small screens, 4 columns on larger screens) showcasing skills like "HTML/CSS," "JavaScript," "Tailwind CSS," and "React."

4. Projects Section

- **Background** : Light gray (`bg-gray-100`).
- **Content** :
 - Centered heading: "My Projects."
 - A grid layout (1 column on small screens, 3 columns on larger screens) with cards for each project.
 - Each card includes:
 - A project title (e.g., "Project One").
 - A short description (e.g., "A responsive e-commerce website built with React and Tailwind CSS").
 - Styled with a white background (`bg-white`), padding (`p-6`), rounded corners (`rounded`), and a subtle shadow (`shadow-md`).

5. Contact Section

- **Background** : White (`bg-white`).
- **Content** :
 - Centered heading: "Get in Touch."
 - A contact form with fields for "Name," "Email," and "Message," styled with borders (`border`), rounded corners (`rounded`), and focus effects (`focus:ring-2 focus:ring-blue-500`).
 - A "Send Message" button styled like the other buttons.
 - Social media links below the form (e.g., LinkedIn, GitHub, Twitter) with hover effects.

6. Footer Section

- **Background** : Dark gray (`bg-gray-900`) with white text.
- **Content** :
 - Centered copyright notice: "© 2025, Your name. All rights reserved."

Example :

Hi, I'm Your Name.

I'm a web developer specializing in creating beautiful,
functional websites.

[View My Work](#)

About Me

I am a web developer with a passion for building visually appealing and highly functional websites. With a diverse set of skills and a focus on modern web technologies, I strive to deliver high-q.

[HTML & CSS](#)[JavaScript](#)[Tailwind CSS](#)

My Projects

Project One

A responsive e-commerce website built with React and Tailwind CSS.

Project Two


A responsive e-commerce website built with React and Tailwind CSS.

Project Three

A responsive e-commerce website built with React and Tailwind CSS.

Get in Touch

[Send Message](#)

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Workshop Outline

Step 1: Setting Up the Environment

1. **Install Node.js** : Ensure Node.js is installed (required for Tailwind setup).
 - Download from [Node.js official website](https://nodejs.org/) .
2. **Initialize a Project** :

```
mkdir Atelier3-tailwind-portfolio
cd Atelier3-tailwind-portfolio
npm init -y
```

3. **Install Tailwind CSS** :

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

4. **Create an input.css File** :

Create a file named src/input.css and add the following:

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

5. **Build the CSS** :

Run the following command to generate the final CSS file:

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

6. **Create an HTML File** :

Create an **index.html** file in the root directory and link the generated output.css:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Your Name Portfolio </title>
  <link href="./dist/output.css" rel="stylesheet">
</head>
<body>
  <!-- Content will go here -->
</body>
</html>
```

Step 2: Building the Portfolio Website

1. Header Section

The header includes your name , navigation links, and a call-to-action button.

```
<header class="bg-gray-900 text-white py-4 px-6">
  <div class="container mx-auto flex justify-between items-center">
    <h1 class="text-lg font-bold">Your name</h1>
    <nav class="space-x-4">
      <a href="#about" class="hover:text-gray-400">About</a>
      <a href="#projects" class="hover:text-gray-400">Projects</a>
      <a href="#contact" class="hover:text-gray-400">Contact</a>
      <a href="#" class="bg-blue-500 px-4 py-2 rounded hover:bg-blue-600">Resume</a>
    </nav>
  </div>
</header>
```

2. Hero Section

This section highlights the main message and includes a call-to-action button.

```
<section id="hero" class="bg-gray-100 py-20">
  <div class="container mx-auto text-center">
    <h2 class="text-4xl font-bold mb-4">Hi, I'm Your name</h2>
    <p class="text-gray-600 mb-8">I'm a student @ENSAM of Casablanca, and a web developer specializing in creating beautiful, functional websites.</p>
    <a href="#projects" class="bg-blue-500 text-white px-6 py-3 rounded hover:bg-blue-600">View My Work</a>
  </div>
</section>
```

3. About Me Section

This section introduces you and your skills.

```
<section id="about" class="py-20">
  <div class="container mx-auto text-center">
    <h2 class="text-3xl font-bold mb-8">About Me</h2>
    <p class="text-gray-600 mb-8">Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam vel ex euismod, tincidunt nisi nec, aliquet justo.</p>
    <div class="grid grid-cols-2 md:grid-cols-4 gap-8">
      <div class="text-center">
        <h3 class="text-xl font-bold mb-2">HTML/CSS</h3>
        <p class="text-gray-600">Expertise in semantic HTML and CSS frameworks.</p>
      </div>
      <div class="text-center">
        <h3 class="text-xl font-bold mb-2">JavaScript</h3>
        <p class="text-gray-600">Proficient in vanilla JS and modern frameworks.</p>
      </div>
      <div class="text-center">
        <h3 class="text-xl font-bold mb-2">Tailwind CSS</h3>
        <p class="text-gray-600">Experienced with utility-first styling.</p>
      </div>
      <div class="text-center">
        <h3 class="text-xl font-bold mb-2">React</h3>
        <p class="text-gray-600">Building dynamic user interfaces.</p>
      </div>
    </div>
  </div>
</section>
```

4. Projects Section

Showcase key projects in a grid layout

```
<section id="projects" class="py-20 bg-gray-100">
  <div class="container mx-auto">
    <h2 class="text-3xl font-bold text-center mb-8">My Projects</h2>
    <div class="grid grid-cols-1 md:grid-cols-3 gap-8">
      <div class="bg-white p-6 rounded shadow-md">
        <h3 class="text-xl font-bold mb-2">Project One</h3>
        <p class="text-gray-600">A responsive e-commerce website built with React and Tailwind CSS.</p>
      </div>
      <div class="bg-white p-6 rounded shadow-md">
        <h3 class="text-xl font-bold mb-2">Project Two</h3>
        <p class="text-gray-600">A personal blog platform with a custom CMS backend.</p>
      </div>
      <div class="bg-white p-6 rounded shadow-md">
        <h3 class="text-xl font-bold mb-2">Project Three</h3>
        <p class="text-gray-600">A landing page for a startup using Tailwind CSS.</p>
      </div>
    </div>
  </div>
</section>
```

5. Contact Section

Include a contact form and social media links.

```
<section id="contact" class="py-20">
  <div class="container mx-auto text-center">
    <h2 class="text-3xl font-bold mb-8">Get in Touch</h2>
    <form class="max-w-md mx-auto space-y-4">
      <input type="text" placeholder="Your Name" class="w-full px-4 py-2 border rounded focus:outline-none focus:ring-2 focus:ring-blue-500">
      <input type="email" placeholder="Your Email" class="w-full px-4 py-2 border rounded focus:outline-none focus:ring-2 focus:ring-blue-500">
      <textarea placeholder="Your Message" rows="4" class="w-full px-4 py-2 border rounded focus:outline-none focus:ring-2 focus:ring-blue-500"></textarea>
      <button type="submit" class="bg-blue-500 text-white px-6 py-3 rounded hover:bg-blue-600">Send Message</button>
    </form>
    <div class="mt-8 flex justify-center space-x-4">
      <a href="#" class="text-gray-600 hover:text-blue-500">LinkedIn</a>
      <a href="#" class="text-gray-600 hover:text-blue-500">GitHub</a>
      <a href="#" class="text-gray-600 hover:text-blue-500">Twitter</a>
    </div>
  </div>
</section>
```

6. Footer Section

The footer includes copyright information and links.

```
<footer class="bg-gray-900 text-white py-8">
  <div class="container mx-auto text-center">
    <p>© 2025 Your name. All rights reserved.</p>
  </div>
</footer>
```

Step 3: Adding Responsive Design

Make sure that your page is responsive using breakpoints like `sm`, `md`, `lg`, and `xl`. For example:

```
<div class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 gap-8">
  <!-- Content -->
</div>
```

Step 4: Final Touches

1. Experiment with Tailwind's utility classes (e.g., colors, spacing, typography).
2. Enhance the portfolio website with animations or additional sections.
3. Optimize the CSS output for production by purging unused styles.

Note : using `tailwind.config.js` (Optionnal)

In Tailwind CSS v4 , the **tailwind.config.js** file is optional . Tailwind CSS v4 introduces a new feature called "Zero Configuration" , which allows using Tailwind without explicitly creating a configuration file. However, if you need customizations (e.g., adding custom colors, fonts, or extending the default theme), you will still need to create and configure the `tailwind.config.js` file.

You'll need the `tailwind.config.js` file if you want to:

- **Customize the default theme** : Add custom colors, fonts, spacing, etc.
- **Enable or disable features** : For example, disabling unused plugins or enabling experimental features.
- **Add content paths** : Specify where Tailwind should scan for classes (useful for purging unused styles in production).

Open the generated `tailwind.config.js` file and configure it for the project:

```
module.exports = {
  content: ['./index.html'], // Paths to your HTML/JS files
  theme: {
    extend: {}, // Extend the default theme here
  },
  plugins: [], // Add plugins here
}
```

Example : Adding a custom color palette:

```
module.exports = {
  theme: {
    extend: {
      colors: {
        primary: '#3490dc',
        secondary: '#ffed4a',
      },
    },
  },
};
```