ASSIGNMENT-14

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Task 1: AI-Assisted Portfolio Website

PROMPT:

Use this to paste if you prefer a short prompt:
"Create index.html and styles.css for a responsive, accessible personal portfolio (Home, About, Projects grid, Contact). Use semantic HTML, mobile-first CSS (flexbox/grid), CSS variables, keyboard-focusable project cards with a hover/focus lift and overlay revealing Live/Code links, and respect prefers-reduced-motion—output only the two file contents

```html
1   <!-- index.html -->
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5       <meta charset="UTF-8">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <title>Portfolio</title>
8       <link rel="stylesheet" href="styles.css">
9   </head>
10  <body>
11      <header>
12          <nav>
13              <ul>
14                  <li><a href="#home">Home</a></li>
15                  <li><a href="#about">About</a></li>
16                  <li><a href="#projects">Projects</a></li>
17                  <li><a href="#contact">Contact</a></li>
18              </ul>
19          </nav>
20      </header>
21
22      <main>
23          <section id="home">
24              <h1>Welcome to My Portfolio</h1>
25              <p>Hi, I'm a web developer passionate about creating accessible and respo
26          </section>
27
28          <section id="about">
29              <h2>About Me</h2>
30              <p>I specialize in frontend development with a focus on accessibility and
31          </section>
32
33          <section id="projects">
34              <h2>My Projects</h2>
35              <div class="projects-grid">
36                  <article class="project-card" tabindex="0">
37                      <h3>Project 1</h3>
```

```html
3    <html lang="en">
10   <body>
22       <main>
33           <section id="projects">
35               <div class="projects-grid">
36                   <article class="project-card" tabindex="0">
37                       <h3>Project 1</h3>
38                       <p>Description of project 1</p>
39                       <div class="project-links">
40                           <a href="#" class="btn">Live Demo</a>
41                           <a href="#" class="btn">View Code</a>
42                       </div>
43                   </article>
44                   <article class="project-card" tabindex="0">
45                       <h3>Project 2</h3>
46                       <p>Description of project 2</p>
47                       <div class="project-links">
48                           <a href="#" class="btn">Live Demo</a>
49                           <a href="#" class="btn">View Code</a>
50                       </div>
51                   </article>
52                   <article class="project-card" tabindex="0">
53                       <h3>Project 3</h3>
54                       <p>Description of project 3</p>
55                       <div class="project-links">
56                           <a href="#" class="btn">Live Demo</a>
57                           <a href="#" class="btn">View Code</a>
58                       </div>
59                   </article>
60               </div>
61           </section>
62
63           <section id="contact">
64               <h2>Contact Me</h2>
65               <form>
66                   <label for="name">Name:</label>
67                   <input type="text" id="name" required>
```

```html
3    <html lang="en">
10   <body>
22       <main>
33           <section id="projects">
61           </section>
62
63           <section id="contact">
64               <h2>Contact Me</h2>
65               <form>
66                   <label for="name">Name:</label>
67                   <input type="text" id="name" required>
68
69                   <label for="email">Email:</label>
70                   <input type="email" id="email" required>
71
72                   <label for="message">Message:</label>
73                   <textarea id="message" required></textarea>
74
75                   <button type="submit" class="btn">Send Message</button>
76               </form>
77           </section>
78       </main>
79
80       <footer>
81           <p>&copy; 2023 My Portfolio. All rights reserved.</p>
82       </footer>
83   </body>
84   </html>
```

OUTPUT:

Welcome to My Portfolio

Hi, I'm a web developer passionate about creating accessible and responsive websites.

About Me

I specialize in frontend development with a focus on accessibility and user experience.

My Projects

Project 1

Description of project 1

Live Demo View Code

Project 2

Description of project 2

Live Demo View Code

Project 3

Description of project 3

Live Demo View Code

Contact Me

Name: [_____] Email: [_____] Message: [_____] [Send Message]

EXPLANATION:

Generate index.html and styles.css for a responsive, accessible portfolio (Home/About/Projects/Contact) using semantic HTML, mobile-first CSS (flex/grid + CSS variables), keyboard-focusable project cards with a hover/focus lift and overlay revealing Live/Code links, respect prefers-reduced-motion — output only the two files.

Task 2: AI-Generated Restaurant Landing Page

PROMPT: "Create index.html, styles.css, and script.js for a restaurant landing page with a responsive nav (Home/Menu/Gallery/Contact), menu cards (6 items), and a JS image slider (prev/next, dots, autoplay, keyboard support); output only the three full file contents."

CODE:

```html
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <title>Delicious Bites - Restaurant</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <header>
        <nav class="navbar">
            <div class="logo">Delicious Bites</div>
            <input type="checkbox" id="nav-toggle" class="nav-toggle">
            <label for="nav-toggle" class="nav-toggle-label">
                <span></span>
            </label>
            <ul class="nav-links">
                <li><a href="#home" class="active">Home</a></li>
                <li><a href="#menu">Menu</a></li>
                <li><a href="#gallery">Gallery</a></li>
                <li><a href="#contact">Contact</a></li>
            </ul>
        </nav>
    </header>

    <section id="home" class="hero">
        <div class="hero-content">
            <h1>Welcome to Delicious Bites</h1>
            <p>Experience the taste of perfection!</p>
            <a href="#menu" class="btn">View Menu</a>
        </div>
    </section>

    <section id="menu" class="menu-section">
        <h2>Our Menu</h2>
        <div class="menu-cards">
```

```html
10   <body>
35      <section id="menu" class="menu-section">
37          <div class="menu-cards">
38              <div class="menu-card">
39                  <img src="https://images.unsplash.com/photo-1504674490024/-0877dT9CC836?auto=format&fit
40                  <h3>Grilled Steak</h3>
41                  <p>Juicy steak grilled to perfection, served with seasonal veggies.</p>
42                  <span class="price">$22</span>
43              </div>
44              <div class="menu-card">
45                  <img src="https://images.unsplash.com/photo-1516685018646-5499d0a7d42f?auto=format&fit
46                  <h3>Pasta Primavera</h3>
47                  <p>Fresh pasta tossed with colorful vegetables and a light sauce.</p>
48                  <span class="price">$16</span>
49              </div>
50              <div class="menu-card">
51                  <img src="https://images.unsplash.com/photo-1464306076886-debca5e8a6b0?auto=format&fit
52                  <h3>Classic Burger</h3>
53                  <p>Beef patty, cheddar, lettuce, tomato, and our special sauce.</p>
54                  <span class="price">$14</span>
55              </div>
56              <div class="menu-card">
57                  <img src="https://images.unsplash.com/photo-1502741338009-cac2772e18bc?auto=format&fit
58                  <h3>Caesar Salad</h3>
59                  <p>Crisp romaine, parmesan, croutons, and creamy Caesar dressing.</p>
60                  <span class="price">$10</span>
61              </div>
62              <div class="menu-card">
63                  <img src="https://images.unsplash.com/photo-1519864600265-abb23847ef2c?auto=format&fit
64                  <h3>Margherita Pizza</h3>
65                  <p>Classic pizza with fresh mozzarella, tomatoes, and basil.</p>
66                  <span class="price">$18</span>
67              </div>
68              <div class="menu-card">
69                  <img src="https://images.unsplash.com/photo-1504674900247-ec6b0b1b6e6e?auto=format&fit
70                  <h3>Chocolate Lava Cake</h3>
71                  <p>Warm chocolate cake with a gooey molten center.</p>
```

Follow link (ctrl + click)

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```html
<body>
    <section id="menu" class="menu-section">
        <div class="menu-cards">
            <div class="menu-card">
                    <p>Warm chocolate cake with a gooey molten center.</p>
                    <span class="price">$8</span>
                </div>
            </div>
        </section>

        <section id="gallery" class="gallery-section">
            <h2>Gallery</h2>
            <div class="slider">
                <button class="slider-btn prev" aria-label="Previous image">&#10094;</button>
                <div class="slider-images">
                    <img src="https://images.unsplash.com/photo-1504674900247-0877df9cc836?auto=format&fit
                    <img src="https://images.unsplash.com/photo-1516685018646-5499d0a7d42f?auto=format&fit
                    <img src="https://images.unsplash.com/photo-1464306076886-debca5e8a6b0?auto=format&fit
                    <img src="https://images.unsplash.com/photo-1502741338009-cac2772e18bc?auto=format&fit
                </div>
                <button class="slider-btn next" aria-label="Next image">&#10095;</button>
                <div class="slider-dots"></div>
            </div>
        </section>

        <section id="contact" class="contact-section">
            <h2>Contact Us</h2>
            <form class="contact-form" autocomplete="off">
                <input type="text" placeholder="Your Name" required>
                <input type="email" placeholder="Your Email" required>
                <textarea placeholder="Your Message" required></textarea>
                <button type="submit" class="btn">Send Message</button>
            </form>
            <div class="contact-info">
                <p><strong>Address:</strong> 123 Foodie Lane, Flavor Town</p>
                <p><strong>Phone:</strong> (555) 123-4567</p>
```

```
10    <body>
77        <section id="gallery" class="gallery-section">
79            <div class="slider">
89            </div>
90        </section>
91
92        <section id="contact" class="contact-section">
93            <h2>Contact Us</h2>
94            <form class="contact-form" autocomplete="off">
95                <input type="text" placeholder="Your Name" required>
96                <input type="email" placeholder="Your Email" required>
97                <textarea placeholder="Your Message" required></textarea>
98                <button type="submit" class="btn">Send Message</button>
99            </form>
00            <div class="contact-info">
01                <p><strong>Address:</strong> 123 Foodie Lane, Flavor Town</p>
02                <p><strong>Phone:</strong> (555) 123-4567</p>
03                <p><strong>Email:</strong> info@deliciousbites.com</p>
04            </div>
05        </section>
06
07        <footer>
08            <p>&copy; 2024 Delicious Bites. All rights reserved.</p>
09        </footer>
10        <script src="script.js"></script>
11    </body>
12 </html>
```

Ln 112, Col 8   S

OUTPUT:

Delicious Bites
☐

- [Home](#)
- [Menu](#)
- [Gallery](#)
- [Contact](#)

Welcome to Delicious Bites
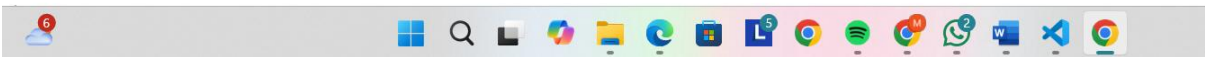
Experience the taste of perfection!

[View Menu](#)

Our Menu

Grilled Steak

Juicy steak grilled to perfection, served with seasonal veggies.

Grilled Steak

Juicy steak grilled to perfection, served with seasonal veggies.

$22

Pasta Primavera

Fresh pasta tossed with colorful vegetables and a light sauce.

$16

Classic Burger

Beef patty, cheddar, lettuce, tomato, and our special sauce.

$14

Contact Us

Your Name | Your Email | Your Message | Send Message

Address: 123 Foodie Lane, Flavor Town

Phone: (555) 123-4567

Email: info@deliciousbites.com

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EXPLANATION: Generate index.html, styles.css, and script.js for a responsive restaurant landing page with Nav (Home, Menu, Gallery, Contact), 6 menu cards (grid), and a JS image slider (prev/next, dots, autoplay, keyboard support); output only the three full file contents.

Task 3: AI-Powered Event Registration Form

PROMPT: Generate index.html, styles.css, and script.js for an SR University Tech Fest registration form (fields: Name, Email, Phone, Department, Event Selection). Use accessible, mobile-first CSS for an attractive layout and vanilla JS for real-time validation (email format, phone length, required checks, inline error messages, disable submit until valid). Output only the three full file contents.

CODE:

```html
<!-- index.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <title>SR University Tech Fest Registration</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <main>
        <section class="form-section">
            <h1>SR University Tech Fest Registration</h1>
            <form id="registrationForm" novalidate>
                <div class="form-group">
                    <label for="name">Name<span aria-hidden="true">*</span></label>
                    <input type="text" id="name" name="name" required autocomplete="name">
                    <span class="error" id="nameError" aria-live="polite"></span>
                </div>
                <div class="form-group">
                    <label for="email">Email<span aria-hidden="true">*</span></label>
                    <input type="email" id="email" name="email" required autocomplete="email">
                    <span class="error" id="emailError" aria-live="polite"></span>
                </div>
                <div class="form-group">
                    <label for="phone">Phone<span aria-hidden="true">*</span></label>
                    <input type="tel" id="phone" name="phone" required maxlength="10" pattern="\d{10}" autoco
                    <span class="error" id="phoneError" aria-live="polite"></span>
                </div>
                <div class="form-group">
                    <label for="department">Department<span aria-hidden="true">*</span></label>
                    <select id="department" name="department" required>
                        <option value="">Select Department</option>
                        <option value="CSE">Computer Science & Engineering</option>
                        <option value="ECE">Electronics & Communication Engineering</option>
                        <option value="EEE">Electrical & Electronics Engineering</option>
                        <option value="ME">Mechanical Engineering</option>
```

```html
10  <body>
11      <main>
12          <section class="form-section">
13              <form id="registrationForm" novalidate>
29                  </div>
30                  <div class="form-group">
31                      <label for="department">Department<span aria-hidden="true">*</span></label>
32                      <select id="department" name="department" required>
33                          <option value="">Select Department</option>
34                          <option value="CSE">Computer Science & Engineering</option>
35                          <option value="ECE">Electronics & Communication Engineering</option>
36                          <option value="EEE">Electrical & Electronics Engineering</option>
37                          <option value="ME">Mechanical Engineering</option>
38                          <option value="CE">Civil Engineering</option>
39                          <option value="Other">Other</option>
40                      </select>
41                      <span class="error" id="departmentError" aria-live="polite"></span>
42                  </div>
43                  <div class="form-group">
44                      <label for="event">Event Selection<span aria-hidden="true">*</span></label>
45                      <select id="event" name="event" required>
46                          <option value="">Select Event</option>
47                          <option value="Hackathon">Hackathon</option>
48                          <option value="Paper Presentation">Paper Presentation</option>
49                          <option value="Robotics">Robotics</option>
50                          <option value="Coding Contest">Coding Contest</option>
51                          <option value="Quiz">Quiz</option>
52                      </select>
53                      <span class="error" id="eventError" aria-live="polite"></span>
54                  </div>
55                  <button type="submit" id="submitBtn" disabled>Register</button>
56              </form>
57          </section>
58      </main>
59      <script src="script.js"></script>
60  </body>
61  </html>
```

Launchpad ⊗0 ⚠0 ⓘ2   Ln 61, Col 8   Space

OUTPUT:

SR University Tech Fest Registration

Name* [   ]
Email* [   ]
Phone* [   ]
Department* [Select Department   ▾]
Event Selection* [Select Event   ▾]
[Register]

- **EXPLANATION:** Files: index.html, styles.css, script.js
- Fields: Name, Email, Phone, Department, Event

- CSS: mobile-first, neat form cards

- JS: real-time checks (email format, phone length, required)

- UX: inline errors, disable submit until valid

- A11y: labels, focus styles, aria where needed

- Output: only the three full files (no extra text)

Task 4: AI-Assisted E-Commerce Product Page

PROMPT: Create index.html, styles.css, and script.js for a responsive product catalog: a grid of product cards (image, title, price, "Add to Cart" button), mobile-first CSS, and vanilla JS that implements Add-to-Cart updating a top-right cart counter (persist in localStorage), accessible markup and keyboard support — output only the three full file contents.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,initial-scale=1.0">
    <title>Product Catalog</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <header class="header">
        <h1>Product Catalog</h1>
        <button class="cart-btn" aria-label="View cart" aria-haspopup="true">
            🛒 <span id="cart-count" aria-live="polite">0</span>
        </button>
    </header>
    <main>
        <section class="product-grid" aria-label="Product List">
            <!-- Example products, replace with your own as needed -->
            <article class="product-card" tabindex="0">
                <img src="https://via.placeholder.com/200x150?text=Product+1" alt="Product 1 image">
                <h2 class="product-title">Product 1</h2>
                <p class="product-price">$19.99</p>
                <button class="add-to-cart" data-product-id="1">Add to Cart</button>
            </article>
            <article class="product-card" tabindex="0">
                <img src="https://via.placeholder.com/200x150?text=Product+2" alt="Product 2 image">
                <h2 class="product-title">Product 2</h2>
                <p class="product-price">$29.99</p>
                <button class="add-to-cart" data-product-id="2">Add to Cart</button>
            </article>
            <article class="product-card" tabindex="0">
                <img src="https://via.placeholder.com/200x150?text=Product+3" alt="Product 3 image">
                <h2 class="product-title">Product 3</h2>
                <p class="product-price">$39.99</p>
                <button class="add-to-cart" data-product-id="3">Add to Cart</button>
            </article>
            <article class="product-card" tabindex="0">
```

```html
    <main>
        <section class="product-grid" aria-label="Product List">
            </article>
            <article class="product-card" tabindex="0">
                <img src="https://via.placeholder.com/200x150?text=Product+2" alt="Product 2 image">
                <h2 class="product-title">Product 2</h2>
                <p class="product-price">$29.99</p>
                <button class="add-to-cart" data-product-id="2">Add to Cart</button>
            </article>
            <article class="product-card" tabindex="0">
                <img src="https://via.placeholder.com/200x150?text=Product+3" alt="Product 3 image">
                <h2 class="product-title">Product 3</h2>
                <p class="product-price">$39.99</p>
                <button class="add-to-cart" data-product-id="3">Add to Cart</button>
            </article>
            <article class="product-card" tabindex="0">
                <img src="https://via.placeholder.com/200x150?text=Product+4" alt="Product 4 image">
                <h2 class="product-title">Product 4</h2>
                <p class="product-price">$49.99</p>
                <button class="add-to-cart" data-product-id="4">Add to Cart</button>
            </article>
        </section>
    </main>
    <script src="script.js"></script>
</body>
</html>
```

OUTPUT:

Product Catalog

🛒 0

Product 1 image

Product 1

$19.99

Add to Cart

Product 2 image

Product 2

$29.99

Add to Cart

Product 3 image

Product 3

$39.99

Add to Cart

Product 4 image

Product 4

$49.99

Add to Cart

EXPLANATION:

- Files: index.html, styles.css, script.js

- Layout: responsive product grid (cards)

- Card: image, title, price, "Add to Cart" button

- JS: add-to-cart updates counter, stores in localStorage

- Counter: top-right persistent cart badge

- Accessibility: buttons keyboard-focusable, ARIA labels

- Test: click Add, refresh (counter persists), keyboard nav