

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

```
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>
```

```
index.tsx  <!-- index.html -->  Untitled-1  Release Notes: 1.105.1

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 />

```

```

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:

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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:

```
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>Delicious Bites - Restaurant</title>
8   <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11   <header>
12     <nav class="navbar">
13       <div class="logo">Delicious Bites</div>
14       <input type="checkbox" id="nav-toggle" class="nav-toggle">
15       <label for="nav-toggle" class="nav-toggle-label">
16         <span></span>
17       </label>
18       <ul class="nav-links">
19         <li><a href="#home" class="active">Home</a></li>
20         <li><a href="#menu">Menu</a></li>
21         <li><a href="#gallery">Gallery</a></li>
22         <li><a href="#contact">Contact</a></li>
23       </ul>
24     </nav>
25   </header>
26
27   <section id="home" class="hero">
28     <div class="hero-content">
29       <h1>Welcome to Delicious Bites</h1>
30       <p>Experience the taste of perfection!</p>
31       <a href="#menu" class="btn">View Menu</a>
32     </div>
33   </section>
34
35   <section id="menu" class="menu-section">
36     <h2>Our Menu</h2>
37     <div class="menu-cards">
```

```
10 <body>
35 <section id="menu" class="menu-section">
37 <div class="menu-cards">
38 <div class="menu-card">
39 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 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 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 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 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 Chocolate Lava Cake</h3>
71 <p>Warm chocolate cake with a gooey molten center.</p>
```



```
release Notes: 1.105.1 <!-- index.html --> Und ...
0 <body>
5 <section id="menu" class="menu-section">
6 <div class="menu-cards">
7 <div class="menu-card">
8
9
10
11 <p>Warm chocolate cake with a gooey molten center.</p>
12 <span class="price">$8</span>
13
14 </div>
15 </div>
16 </section>
17
18 <section id="gallery" class="gallery-section">
19 <h2>Gallery</h2>
20 <div class="slider">
21 <button class="slider-btn prev" aria-label="Previous image">&#10094;</button>
22 <div class="slider-images">
23 
29 <button class="slider-btn next" aria-label="Next image">&#10095;</button>
30 <div class="slider-dots"></div>
31 </div>
32 </section>
33
34 <section id="contact" class="contact-section">
35 <h2>Contact Us</h2>
36 <form class="contact-form" autocomplete="off">
37 <input type="text" placeholder="Your Name" required>
38 <input type="email" placeholder="Your Email" required>
39 <textarea placeholder="Your Message" required></textarea>
40 <button type="submit" class="btn">Send Message</button>
41 </form>
42 <div class="contact-info">
43 <p><strong>Address:</strong> 123 Foodie Lane, Flavor Town</p>
44 <p><strong>Phone:</strong> (555) 123-4567</p>
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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>
100    <div class="contact-info">
101      <p><strong>Address:</strong> 123 Foodie Lane, Flavor Town</p>
102      <p><strong>Phone:</strong> (555) 123-4567</p>
103      <p><strong>Email:</strong> info@deliciousbites.com</p>
104    </div>
105  </section>
106
107  <footer>
108    <p>&copy; 2024 Delicious Bites. All rights reserved.</p>
109  </footer>
110  <script src="script.js"></script>
111 </body>
112 </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

Pasta Primavera

Fresh pasta tossed with colorful vegetables and a light sauce.

\$16

Classic Burger

Classic Burger

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

\$14



Contact Us

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:

```
File Edit Selection View Go Run ... MyFirstApp
Release Notes 1.105.1 <!-- index.html --> Untitled-1

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>SR University Tech Fest Registration</title>
8   <link rel="stylesheet" href="styles.css">
9 </head>
10 <body>
11   <main>
12     <section class="form-section">
13       <h3>SR University Tech Fest Registration</h3>
14       <form id="registrationform" novalidate>
15         <div class="form-group">
16           <label for="name">Name<span aria-hidden="true">*</span></label>
17           <input type="text" id="name" name="name" required autocomplete="name">
18           <span class="error" id="nameError" aria-live="polite"></span>
19         </div>
20         <div class="form-group">
21           <label for="email">Email<span aria-hidden="true">*</span></label>
22           <input type="email" id="email" name="email" required autocomplete="email">
23           <span class="error" id="emailError" aria-live="polite"></span>
24         </div>
25         <div class="form-group">
26           <label for="phone">Phone<span aria-hidden="true">*</span></label>
27           <input type="tel" id="phone" name="phone" required maxlength="10" pattern="\d{10}" autoc>
28           <span class="error" id="phoneError" aria-live="polite"></span>
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           </select>
39         </div>
40       </form>
41     </section>
42   </main>
43 </body>
44 </html>
```

Ln 61, Col 8 Spaces: 4

```
10 <body>
11   <main>
12     <section class="form-section">
13       <form id="registrationForm" novalidate>
14         <div class="form-group">
15           <label for="department">Department<span aria-hidden="true">*</span></label>
16           <select id="department" name="department" required>
17             <option value="">Select Department</option>
18             <option value="CSE">Computer Science & Engineering</option>
19             <option value="ECE">Electronics & Communication Engineering</option>
20             <option value="EEE">Electrical & Electronics Engineering</option>
21             <option value="ME">Mechanical Engineering</option>
22             <option value="CE">Civil Engineering</option>
23             <option value="other">Other</option>
24           </select>
25           <span class="error" id="departmentError" aria-live="polite"></span>
26         </div>
27         <div class="form-group">
28           <label for="event">Event Selection<span aria-hidden="true">*</span></label>
29           <select id="event" name="event" required>
30             <option value="">Select Event</option>
31             <option value="Hackathon">Hackathon</option>
32             <option value="Paper Presentation">Paper Presentation</option>
33             <option value="Robotics">Robotics</option>
34             <option value="Coding Contest">Coding Contest</option>
35             <option value="Quiz">Quiz</option>
36           </select>
37           <span class="error" id="eventError" aria-live="polite"></span>
38         </div>
39         <button type="submit" id="submitBtn" disabled>Register</button>
40       </form>
41     </section>
42   </main>
43   <script src="script.js"></script>
44 </body>
45 </html>
```

OUTPUT:

SR University Tech Fest Registration

Name*

Email*

Phone*

Department*

Event Selection*

- **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

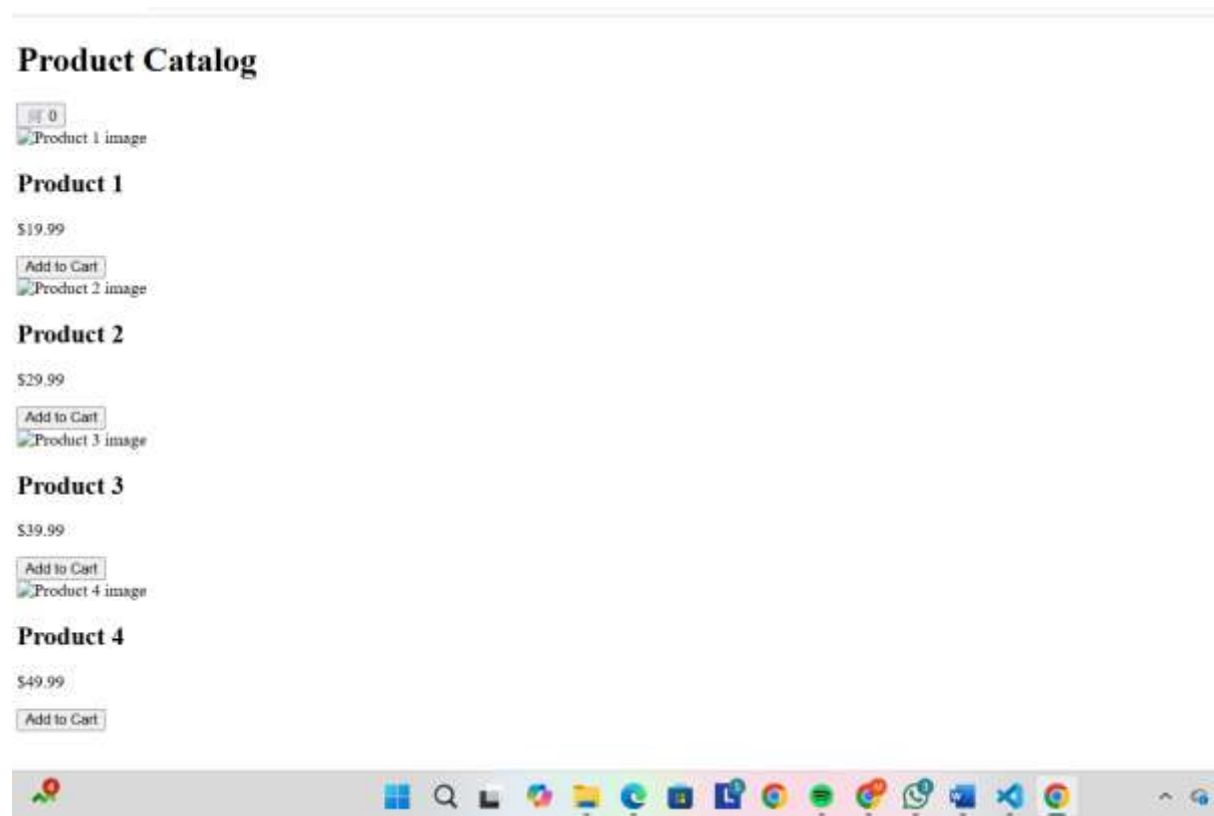
PROMPT: Create index.html, styles.css, and script.js for a responsive product catalog: a grid of product cards (image, title, price, "Add to Cart" button), mobile-first CSS, and vanilla JS that implements Add-to-Cart updating a top-right cart counter (persist in localStorage), accessible markup and keyboard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

CODE:


```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width,initial-scale=1.0">
6   <title>Product Catalog</title>
7   <link rel="stylesheet" href="styles.css">
8 </head>
9 <body>
10   <header class="header">
11     <h1>Product Catalog</h1>
12     <button class="cart-btn" aria-label="View cart" aria-haspopup="true">
13       🛒 <span id="cart-count" aria-live="polite">0</span>
14     </button>
15   </header>
16   <main>
17     <section class="product-grid" aria-label="Product list">
18       <!-- Example products, replace with your own as needed -->
19       <article class="product-card" tabindex="0">
20         
21         <h2 class="product-title">Product 1</h2>
22         <p class="product-price">$19.99</p>
23         <button class="add-to-cart" data-product-id="1">Add to Cart</button>
24       </article>
25       <article class="product-card" tabindex="0">
26         
27         <h2 class="product-title">Product 2</h2>
28         <p class="product-price">$29.99</p>
29         <button class="add-to-cart" data-product-id="2">Add to Cart</button>
30       </article>
31       <article class="product-card" tabindex="0">
32         
33         <h2 class="product-title">Product 3</h2>
34         <p class="product-price">$39.99</p>
35         <button class="add-to-cart" data-product-id="3">Add to Cart</button>
36       </article>
37       <article class="product-card" tabindex="0">
```

```
38     </section>
39   </main>
40   <script src="script.js"></script>
41 </body>
42 </html>
```

OUTPUT:



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