

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:

© 2023 My Portfolio. All rights reserved.



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">

```

```
Release Notes: 1.105.1 <!-- index.html --> Unti
10 <body>
35 <section id="menu" class="menu-section">
37 <div class="menu-cards">
38 <div class="menu-card">
39 $22</span>
43 </div>
44 <div class="menu-card">
45 $16</span>
49 </div>
50 <div class="menu-card">
51 $14</span>
55 </div>
56 <div class="menu-card">
57 $10</span>
61 </div>
62 <div class="menu-card">
63 $18</span>
67 </div>
68 <div class="menu-card">
69 
17 <div class="menu-cards">
18 <div class="menu-card">
19 <div class="menu-card">
20 <p>Warm chocolate cake with a gooey molten center.</p>
21 <p>Warm chocolate cake with a gooey molten center.</p>
22 <span class="price">$8</span>
23 </div>
24 </div>
25 </section>
26
27 <section id="gallery" class="gallery-section">
28 <h2>Gallery</h2>
29 <div class="slider">
30 <button class="slider-btn prev" aria-label="Previous image">&#10094;</button>
31 <div class="slider-images">
32 
37 <button class="slider-btn next" aria-label="Next image">&#10095;</button>
38 <div class="slider-dots"></div>
39 </div>
40 </section>
41
42 <section id="contact" class="contact-section">
43 <h2>Contact Us</h2>
44 <form class="contact-form" autocomplete="off">
45 <input type="text" placeholder="Your Name" required>
46 <input type="email" placeholder="Your Email" required>
47 <textarea placeholder="Your Message" required></textarea>
48 <button type="submit" class="btn">Send Message</button>
49 </form>
50 <div class="contact-info">
51 <p><strong>Address:</strong> 123 Foodie Lane, Flavor Town</p>
52 <p><strong>Phone:</strong> (555) 123-4567</p>
53 <p><strong>Email:</strong> info@foodie.com</p>
54 </div>
55 </section>
56 </body>
57 </html>
```

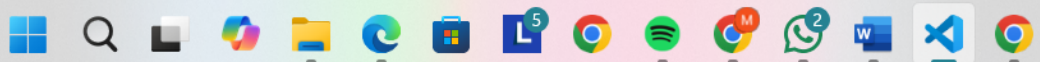
Ln 112, Col 8 Spaces: 4 UTF-8

```

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

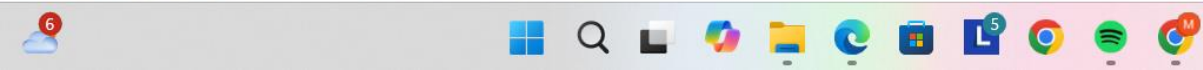
Pasta Primavera

Fresh pasta tossed with colorful vegetables and a light sauce.

\$16
Classic Burger

Classic Burger

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



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       <h1>SR University Tech Fest Registration</h1>
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>
```

```
10 <body>
11   <main>
12     <section class="form-section">
13       <form id="registrationForm" novalidate>
14         <div>
15           <div class="form-group">
16             <label for="department">Department<span aria-hidden="true">*</span></label>
17             <select id="department" name="department" required>
18               <option value="">Select Department</option>
19               <option value="CSE">Computer Science & Engineering</option>
20               <option value="ECE">Electronics & Communication Engineering</option>
21               <option value="EEE">Electrical & Electronics Engineering</option>
22               <option value="ME">Mechanical Engineering</option>
23               <option value="CE">Civil Engineering</option>
24               <option value="Other">Other</option>
25             </select>
26             <span class="error" id="departmentError" aria-live="polite"></span>
27           </div>
28           <div class="form-group">
29             <label for="event">Event Selection<span aria-hidden="true">*</span></label>
30             <select id="event" name="event" required>
31               <option value="">Select Event</option>
32               <option value="Hackathon">Hackathon</option>
33               <option value="Paper Presentation">Paper Presentation</option>
34               <option value="Robotics">Robotics</option>
35               <option value="Coding Contest">Coding Contest</option>
36               <option value="Quiz">Quiz</option>
37             </select>
38             <span class="error" id="eventError" aria-live="polite"></span>
39           </div>
40           <button type="submit" id="submitBtn" disabled>Register</button>
41         </div>
42       </form>
43     </section>
44   </main>
45   <script src="script.js"></script>
46 </body>
47 </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">
```

```
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 2</h2>
22        <p class="product-price">$29.99</p>
23        <button class="add-to-cart" data-product-id="2">Add to Cart</button>
24      </article>
25      <article class="product-card" tabindex="0">
26        
27        <h2 class="product-title">Product 3</h2>
28        <p class="product-price">$39.99</p>
29        <button class="add-to-cart" data-product-id="3">Add to Cart</button>
30      </article>
31      <article class="product-card" tabindex="0">
32        
33        <h2 class="product-title">Product 4</h2>
34        <p class="product-price">$49.99</p>
35        <button class="add-to-cart" data-product-id="4">Add to Cart</button>
36      </article>
37    </section>
38  </main>
39  <script src="script.js"></script>
40</body>
41</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