

AI_ASSISTED ASSIGNMENT 14.3

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BATCH:46

Task 1: AI-Assisted Personal Portfolio Website

Scenario

A student wants to showcase academic projects, technical skills, and contact information through a personal portfolio website. AI tools are used to speed up development while maintaining quality and customization.

Tasks

1. Use GitHub Copilot to generate a semantic HTML structure with sections:
 - Home
 - About
 - Projects
 - Contact
 2. Ask Copilot to suggest responsive CSS using Flexbox or Grid.
 3. Customize AI-generated CSS to add:
 - Hover effects on project cards
 - Smooth scrolling navigation

Expected Outcome

- Clean and well-structured portfolio website
 - Responsive layout for desktop and mobile screens
 - Interactive project cards

CODE:

```
32     <a href="#">View More</a>
33   </div>
34   <!-- Duplicate project-card as needed -->
35 </div>
36 </section>
37 <section id="contact">
38   <h2>Contact</h2>
39   <form>
40     <label for="email">Email:</label>
41     <input type="email" id="email" required>
42     <label for="message">Message:</label>
43     <textarea id="message" required></textarea>
44     <button type="submit">Send</button>
45   </form>
46 </section>
47 </body>
48 </html>
```

OUTPUT:

The screenshot shows a dark-themed portfolio website. On the left, there's a vertical sidebar with a light gray scroll bar. The main content area has a dark background with white text. At the top, there's a navigation bar with four links: Home, About, Projects, and Contact. Below that is a large heading 'Welcome to My Portfolio'. Underneath it is a short introduction: 'Short introduction or tagline.' Then there's a section titled 'About Me' followed by placeholder text: 'Insert your biography, education, and skill summary here.' Next is a section titled 'Projects' with a placeholder for a 'Project Title' and 'Project description.', followed by a 'View More' link. Below that is a section titled 'Contact' with fields for 'Email:' and 'Message:', a 'Send' button, and a small icon.

- [Home](#)
- [About](#)
- [Projects](#)
- [Contact](#)

Welcome to My Portfolio

Short introduction or tagline.

About Me

Insert your biography, education, and skill summary here.

Projects

Project Title

Project description.

[View More](#)

Contact

Email: Message:

Task 2: AI-Generated Restaurant Landing Page

Scenario

A local restaurant requires a simple yet attractive landing page to display its offerings. The developer uses AI assistance to rapidly generate UI components.

Tasks

1. Use Copilot to create a navigation bar with links:

- Home
 - Menu
 - Gallery
 - Contact
2. Generate a menu section styled with CSS cards.
 3. Implement a JavaScript-based image slider for the gallery using Copilot suggestions.
 4. Customize animations or transitions for better user experience.

Expected Outcome

- Fully functional restaurant landing page
- Responsive navigation bar
- Working image slider with smooth transitions

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>Delizioso Restaurant</title>
7     <link rel="stylesheet" href="styles.css"/>
8   </head>
9   <body>
10    <!-- Navigation Bar -->
11    <nav class="navbar">
12      <div class="nav-container">
13        <h1 class="logo">Delizioso</h1>
14        <ul class="nav-links">
15          <li><a href="#home">Home</a></li>
16          <li><a href="#menu">Menu</a></li>
17          <li><a href="#gallery">Gallery</a></li>
18          <li><a href="#contact">Contact</a></li>
19        </ul>
20      </div>
21    </nav>
22
23    <section id="home" class="hero">
24      <h2>Welcome to Delizioso</h2>
25      <p>Experience authentic cuisine with a modern twist.</p>
26    </section>
27
28    <!-- Menu Section -->
29    <section id="menu">
30      <h2>Our Menu</h2>
31      <div class="menu-cards">
32        <div class="menu-card">
33          Pasta Fresca</h3>
35          <p>Homemade noodles with fresh tomato sauce.</p>
36          <span>$14</span>
37        </div>
38        <div class="menu-card">
39          Classic Pizza</h3>
41          <p>Stone-baked with your choice of toppings.</p>
42
43          <p>Stone-baked with your choice of toppings.</p>
44          <span>$12</span>
45        </div>
46        <div class="menu-card">
47          Garden Salad</h3>
49          <p>Crisp greens with house vinaigrette.</p>
50          <span>$8</span>
51        </div>
52      </div>
53    </section>
54
55    <!-- Gallery Section -->
56    <section id="gallery">
57      <h2>Gallery</h2>
58      <div class="slider">
59        <div class="slides">
60          
61          
62          
63        </div>
64        <button class="prev">&#10094;
65        <button class="next">&#10095;
66      </div>
67    </section>
68
69    <!-- Contact Section -->
70    <section id="contact">
71      <h2>Contact Us</h2>
72      <form>
73        <input type="text" placeholder="Your Name" required/>
74        <input type="email" placeholder="Your Email" required/>
75        <textarea placeholder="Message..." required></textarea>
76        <button type="submit">Send</button>
77      </form>
78    </section>
79
80    <script src="script.js"></script>
81  </body>
82 </html>

```

```

/* General Reset */
body, h1, h2, h3, p, ul, li { margin:0; padding:0; }
body { font-family: 'Segoe UI', Arial, sans-serif; background: #fff; color: #333; }

/* Navbar */
.navbar {
  background: #af3e2b;
  color: #fff;
  position: sticky; top: 0; z-index: 100;
  box-shadow: 0 2px 8px rgba(0,0,0,0.07);
}

.nav-container {
  display: flex; justify-content: space-between; align-items: center;
  max-width: 1080px; margin: auto; padding: 1rem;
}

.logo { font-size: 1.7rem; letter-spacing: 2px; }
.nav-links { display: flex; list-style: none; }
.nav-links li { margin-left: 2rem; }
.nav-links a {
  color: #fff; text-decoration: none; font-weight: bold; font-size: 1.1rem;
  position: relative; transition: color 0.2s;
}
.nav-links a::after {
  content: ""; display: block; width: 0%; height: 2px;
  background: #fff; transition: width 0.3s;
  position: absolute; left: 0; bottom: -4px;
}
.nav-links a:hover::after { width: 100%; }
.nav-links a:hover { color: #ffe2cd; }

/* Hero */
.hero { text-align: center; padding: 80px 20px 40px 20px; background: #ffe2cd; }
.hero h2 { font-size: 2.3rem; margin-bottom: 0.4em; color: #af3e2b; }

/* Menu Section */
#menu { padding: 60px 20px; background: #fff6f0; }
#menu h2 { text-align: center; font-size: 2rem; color: #bf452b; }
.menu-cards {
  display: flex; gap: 2rem; flex-wrap: wrap;
  justify-content: center; margin-top: 2rem;
}

```

STYLE CSS:

```

12 .menu-card {
13   background: #fff; border-radius: 1rem; box-shadow: 0 3px 14px rgba(175,62,43,0.10);
14   width: 260px; padding: 1em 1.2em 1.5em 1.2em; text-align: center;
15   transition: transform 0.22s, box-shadow 0.21s;
16   cursor: pointer;
17   position: relative;
18 }
19 .menu-card:hover {
20   transform: translateY(-8px) scale(1.045);
21   box-shadow: 0 10px 30px rgba(175,62,43,0.17);
22 }
23 .menu-card img {
24   width: 120px; height: 120px; border-radius: 50%; object-fit: cover;
25   margin-bottom: 1em; box-shadow: 0 0 5px #ffe2cd;
26 }
27 .menu-card h3 { margin: 0.4em 0 0.5em 0; color: #b03e26; }
28 .menu-card span { display: block; font-weight: 600; color: #af3e2b; margin-top: 0.7em; }

29 /* Gallery Section & Slider */
30 #gallery { padding: 60px 20px; }
31 #gallery h2 { text-align: center; color: #bf452b; }
32 .slider {
33   position: relative; max-width: 420px; margin: 2rem auto 0 auto; overflow: hidden; border-radius: 10px; background-color: #fff;
34   box-shadow: 0 2px 20px #ddaa17b29;
35 }
36 .slides { display: flex; transition: transform 0.7s cubic-bezier(.52,.17,.21,.83); }
37 .slide {
38   min-width: 100%; opacity: 0; transition: opacity 0.7s;
39   height: 270px; object-fit: cover; position: relative;
40   > Gallery Images:
41 }

42 .slide.active { opacity: 1; }
43 .prev, .next {
44   position: absolute; top: 50%; transform: translateY(-50%);
45   background: #af3e2b; color: #fff; border: none; font-size: 1.8rem;
46   border-radius: 50%; padding: 0.5em 0.8em; cursor: pointer;
47   opacity: 0.7; transition: background 0.2s, opacity 0.2s;
48 }

```

```

}
.slide.active { opacity:1; }

.prev, .next {
  position: absolute; top: 50%; transform: translateY(-50%);
  background: #af3e2b; color:#fff; border:none; font-size:1.8rem;
  border-radius: 50%; padding: 0.5em 0.8em; cursor:pointer;
  opacity:0.7; transition: background 0.2s, opacity 0.2s;
}

.prev:hover, .next:hover { background:#d65511; opacity:1; }

.prev { left: 10px; }
.next { right: 10px; }

/* Contact Form */
#contact { padding:60px 20px; background: #ffe2cd; }
#contact h2 {text-align: center; color: #bf452b; }
form {
  max-width: 420px; margin:1.2em auto 0 auto; display: flex; flex-direction: column; gap: 1rem;
  box-shadow: 0 0 18px #b9612940; padding:1.5em 2em; border-radius: 11px; background:#fff;
}
input, textarea { font: inherit; padding: 0.7em; border-radius: 7px; border: 1px solid #bf452b48; outline: none; }
button[type="submit"] {
  background: #af3e2b; color: #fff; border: none; padding: 0.85em;
  border-radius: 6px; cursor: pointer; font-weight:600; font-size:1rem;
  transition: background 0.18s;
}
button[type="submit"]:hover { background: #c95c18; }

/* Responsive */
@media (max-width: 800px) {
  .menu-cards { flex-direction: column; align-items: center; }
  .nav-container { flex-direction: column; align-items: flex-start; }
  .logo { margin-bottom: 0.6em; }
}
@media (max-width: 480px) {
  .slider, form { max-width:98vw; }
}

```

SCRIPT JS:

```

1 // Image slider logic
2 const slides = document.querySelectorAll('.slide');
3 const prevBtn = document.querySelector('.prev');
4 const nextBtn = document.querySelector('.next');
5 let currentIndex = 0;
6
7 function showSlide(index) {
8   slides.forEach((slide, i) => {
9     slide.classList.toggle('active', i === index);
10  });
11 }
12
13 function nextSlide() {
14   currentIndex = (currentIndex + 1) % slides.length;
15   showSlide(currentIndex);
16 }
17
18 function prevSlide() {
19   currentIndex = (currentIndex - 1 + slides.length) % slides.length;
20   showSlide(currentIndex);
21 }
22
23 nextBtn.addEventListener('click', nextSlide);
24 prevBtn.addEventListener('click', prevSlide);
25
26 // Auto-advance every 5s
27 setInterval(nextSlide, 5000);
28

```

OUTPUT:

Delizioso

Home Menu Gallery Contact

Welcome to Delizioso

Experience authentic cuisine with a modern twist.

Our Menu



Pasta Fresca

Homemade noodles with fresh

Task 3: AI-Powered Event Registration Form

Scenario

SR University is hosting a technical fest and requires an online registration form with real-time validation to ensure accurate user input.

Tasks

- Ask Copilot to generate an HTML form with the following fields:
 - Name
 - Email
 - Phone Number
 - Department
 - Event Selection
- Use AI assistance to style the form using CSS for readability and accessibility.
- Implement JavaScript validation using Copilot:
 - Email format validation
 - Phone number length validation
 - Required field checks

Expected Outcome

- User-friendly and visually appealing form
- Real-time validation messages
- Prevention of invalid submissions

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>SRU Tech Fest | Registration</title>
7   <link rel="stylesheet" href="form.css"/>
8 </head>
9 <body>
10 <main>
11   <h1>SRU University Technical Fest Registration</h1>
12   <form id="regForm" novalidate>
13     <div class="form-group">
14       <label for="name">Name<span aria-label="required">*</span></label>
15       <input type="text" id="name" name="name" required>
16       <small class="error"></small>
17     </div>
18     <div class="form-group">
19       <label for="email">Email<span aria-label="required">*</span></label>
20       <input type="email" id="email" name="email" required>
21       <small class="error"></small>
22     </div>
23     <div class="form-group">
24       <label for="phone">Phone Number<span aria-label="required">*</span></label>
25       <input type="tel" id="phone" name="phone" maxlength="10" pattern="[0-9]{10}" required>
26       <small class="error"></small>
27     </div>
28     <div class="form-group">
29       <label for="dept">Department<span aria-label="required">*</span></label>
30       <select id="dept" name="dept" required>
31         <option value="">--Select Department--</option>
32         <option value="cse">CSE</option>
33         <option value="ece">ECE</option>
34         <option value="eee">EEE</option>
35         <option value="mech">MECH</option>
36         <option value="civil">CIVIL</option>
37       </select>
38       <small class="error"></small>
39     </div>
40     <div class="form-group">
41       <label for="event">Event Selection<span aria-label="required">*</span></label>
42       <select id="event" name="event" required>
43         <option value="">--Select Event--</option>
44         <option value="hackathon">Hackathon</option>
45         <option value="poster">Poster Presentation</option>
46         <option value="quiz">Tech Quiz</option>
47         <option value="coding">Coding Contest</option>
48       </select>
49       <small class="error"></small>
50     </div>
51     <button type="submit">Register</button>
52   </form>
53   <div id="result" role="alert"></div>
54 </main>
55 <script src="form.js"></script>
56 </body>
57 </html>
58
59 body {
60   background: #f2f2fa;
61   font-family: 'Segoe UI', Arial, sans-serif;
62   margin: 0;
63 }
64 main {
65   max-width: 420px;
66   background: #fff;
67   margin: 3.5em auto 0 auto;
68   padding: 2em 2.5em;
69   border-radius: 1.2em;
70   box-shadow: 0 3px 24px #8f8beb33;
71 }
72 h1 {
73   font-size: 1.7em;
74   color: #5318a6;
75   text-align: center;
76   margin-bottom: 1.6em;
77 }
78 .form-group {
79   margin-bottom: 1.35em;
80   display: flex;
81   flex-direction: column;
82 }
83 label {
84   font-weight: 600;
85   margin-bottom: 0.35em;
86 }
87 input, select {
88   padding: 0.7em;
89   border: 1.2px solid #bebfe5;
90   border-radius: 6px;
91   font-size: 1em;
92   background: #fafaff;
93   transition: border 0.19s;
94 }
95 input:focus, select:focus {
96   border-color: #5318a688;
97   outline: none;
98 }
99 button[type="submit"] {
100   margin-top: 1.0em;
101 }
```

```

43 width: 100%;
44 background: #5318a6;
45 color: #fff;
46 font-weight: bold;
47 border: none;
48 border-radius: 6px;
49 padding: 0.75em;
50 font-size: 1em;
51 cursor: pointer;
52 transition: background 0.17s;
53 }
54 button[type="submit"]:hover, button[type="submit"]:focus {
55 background: #7c3aed;
56 }
57 small.error {
58 color: #d3202f;
59 height: 1.2em;
60 margin-top: 0.18em;
61 font-size: 0.97em;
62 visibility: hidden;
63 }
64 input:invalid, select:invalid {
65 border-color: #e68888;
66 }
67 input.valid, select.valid {
68 border-color: #39b369;
69 }
70 input.invalid, select.invalid {
71 border-color: #d3202f;
72 }
73 #result {
74 min-height: 1em;
75 margin-top: 1.4em;
76 text-align: center;
77 font-weight: 600;
78 color: #2b6d42;
79 }
80 @media (max-width: 600px) {
81 main {
82 padding: 1.2em 0.6em;
83 max-width: 98vw;
84 }

```

```

1 const form = document.getElementById('regForm');
2 const fields = ['name', 'email', 'phone', 'dept', 'event'];
3 const result = document.getElementById('result');
4
5 // Validation logic
6 function validateField(field) {
7   const input = document.getElementById(field);
8   const error = input.nextElementSibling;
9
10  let valid = true;
11  let message = '';
12
13  if (!input.value.trim()) {
14    valid = false;
15    message = 'This field is required';
16  } else {
17    switch (field) {
18      case 'email':
19        // Simple email regex
20        const emailPattern = /^[^@\s]+@[^\s@]+\.[^\s@]+$/;
21        valid = emailPattern.test(input.value.trim());
22        message = valid ? '' : 'Enter a valid email address';
23        break;
24      case 'phone':
25        const phone = input.value.trim();
26        valid = /^[\d]{10}$/.test(phone);
27        message = valid ? '' : 'Enter a 10-digit phone number';
28        break;
29    }
30  }
31  input.classList.toggle('invalid', !valid);
32  input.classList.toggle('valid', valid);
33
34  error.textContent = message;
35  error.style.visibility = message ? 'visible' : 'hidden';
36  return valid;
37 }
38
39 fields.forEach(field => {
40   const input = document.getElementById(field);
41   input.addEventListener('input', () => validateField(field));
42   input.addEventListener('blur', () => validateField(field));
43 }

```

```

42     input.addEventListener('blur', () => validateField(field));
43 });
44
45 form.addEventListener('submit', function(e) {
46   e.preventDefault();
47   let allValid = true;
48   fields.forEach(f => {
49     const valid = validateField(f);
50     allValid = allValid && valid;
51   });
52   if (allValid) {
53     result.textContent = "Registration successful!";
54     result.style.color = "#2b6d42";
55     form.reset();
56   } else {
57     const input = document.getElementById(f);
58     input.classList.remove('valid');
59     input.classList.remove('invalid');
60     input.nextElementSibling.textContent = "";
61     input.nextElementSibling.style.visibility = 'hidden';
62   });
63 } else {
64   result.textContent = "Please correct errors above.";
65   result.style.color = "#d3202f";
66 }
67 });

```

SR University Technical Fest Registration

Name*: Faisal Qureshi

Email*: faisalqureshi45424@gmail.com

Phone Number*: 9866323556

Department*: CSE

Event Selection*: Hackathon

Register

Task 4: AI-Assisted E-Commerce Product Page

Scenario: A startup is developing a basic e-commerce product page to showcase products and manage simple cart functionality.

Tasks : Use Copilot to generate a grid-based product catalog using HTML and CSS.

Implement an “Add to Cart” feature using JavaScript.

Modify AI-generated code to include:

- o Cart item counter at the top-right corner

- Visual feedback when a product is added

Expected Outcome

- Functional product catalog
- Working cart counter
- Interactive user experience

CODE:

The screenshot shows a code editor with two tabs: "index.html" and "styles.css".

```

index.html          styles.css
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>E-Commerce Product Catalog</title>
7      <link rel="stylesheet" href="styles.css">
8  </head>
9  <body>
10     <header>
11         <div class="header-container">
12             <h1>MyStore</h1>
13             <div class="cart-icon">
14                 <span class="cart-icon-svg">🛒</span>
15                 <span class="cart-counter" id="cartCounter">0</span>
16             </div>
17         </div>
18     </header>
19
20     <main>
21         <section class="products-section">
22             <h2>Featured Products</h2>
23             <div class="products-grid" id="productsGrid">
24                 <!-- Products will be inserted here by JavaScript -->
25             </div>
26         </section>
27     </main>
28
29     <div class="toast-notification" id="toastNotification"></div>
30
31     <script src="script.js"></script>
32 </body>
33 </html>

```

The screenshot shows a code editor with two tabs: "index.html" and "styles.css".

```

index.html          styles.css
1  * {
2      margin: 0;
3      padding: 0;
4      box-sizing: border-box;
5  }
6
7  body {
8      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
9      background-color: #f5f5f5;
10     color: #333;
11 }
12
13 header {
14     background-color: #2c3e50;
15     color: white;
16     padding: 20px 0;
17     box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
18     position: sticky;
19     top: 0;
20     z-index: 100;
21 }
22
23 .header-container {
24     max-width: 1200px;
25     margin: 0 auto;
26     display: flex;
27     justify-content: space-between;
28     align-items: center;
29     padding: 0 20px;
30 }
31
32 header h1 {
33     font-size: 28px;
34     font-weight: 600;
35 }
36
37 .cart-icon {
38     position: relative;
39     cursor: pointer;

```

```
index.html      styles.css      script.js      +      ⌂      ⌂  
36 .cart-icon {  
37   position: relative;  
38   cursor: pointer;  
39   font-size: 32px;  
40   transition: transform 0.3s ease;  
41 }  
42  
43 .cart-icon:hover {  
44   transform: scale(1.1);  
45 }  
46  
47 .cart-counter {  
48   position: absolute;  
49   top: -8px;  
50   right: -12px;  
51   background-color: #e74c3c;  
52   color: white;  
53   border-radius: 50%;  
54   width: 24px;  
55   height: 24px;  
56   display: flex;  
57   align-items: center;  
58   justify-content: center;  
59   font-size: 12px;  
60   font-weight: bold;  
61   box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);  
62 }  
63  
64 main {  
65   max-width: 1200px;  
66   margin: 0 auto;  
67   padding: 40px 20px;  
68 }  
69  
70 .products-section h2 {  
71   margin-bottom: 30px;  
72   font-size: 32px;  
73   text-align: center;  
74 }
```

```
index.html      styles.css      script.js      +      ⌂      ⌂  
75 } | color: #2c3e50;  
76  
77 .products-grid {  
78   display: grid;  
79   grid-template-columns: repeat(auto-fill, minmax(280px, 1fr));  
80   gap: 30px;  
81   margin-bottom: 40px;  
82 }  
83  
84 .product-card {  
85   background: white;  
86   border-radius: 8px;  
87   overflow: hidden;  
88   box-shadow: 0 2px 15px rgba(0, 0, 0, 0.1);  
89   transition: transform 0.3s ease, box-shadow 0.3s ease;  
90   cursor: pointer;  
91 }  
92  
93 .product-card:hover {  
94   transform: translateY(-8px);  
95   box-shadow: 0 8px 25px rgba(0, 0, 0, 0.15);  
96 }  
97  
98 .product-image {  
99   width: 100%;  
100  height: 250px;  
101  background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);  
102  display: flex;  
103  align-items: center;  
104  justify-content: center;  
105  font-size: 80px;  
106  color: white;  
107  overflow: hidden;  
108 }  
109  
110 .product-card:nth-child(2) .product-image {  
111   background: linear-gradient(135deg, #f093fb 0%, #f55576c 100%);  
112 }  
113 }
```

```
index.html      styles.css      script.js      +  ⌂  ⌂
114 ,
115 .product-card:nth-child(3) .product-image {
116   background: linear-gradient(135deg, #4facfe 0%, #00f2fe 100%);
117 }
118
119 .product-card:nth-child(4) .product-image {
120   background: linear-gradient(135deg, #43e97b 0%, #38f9d7 100%);
121 }
122
123 .product-card:nth-child(5) .product-image {
124   background: linear-gradient(135deg, #fa709a 0%, #fee140 100%);
125 }
126
127 .product-card:nth-child(6) .product-image {
128   background: linear-gradient(135deg, #30cf0 0%, #330867 100%);
129 }
130
131 .product-info {
132   padding: 20px;
133 }
134
135 .product-name {
136   font-size: 18px;
137   font-weight: 600;
138   margin-bottom: 8px;
139   color: #2c3e50;
140 }
141
142 .product-description {
143   font-size: 14px;
144   color: #7f8c8d;
145   margin-bottom: 15px;
146   line-height: 1.4;
147 }
148
149 .product-footer {
150   display: flex;
151   justify-content: space-between;
152   align-items: center;
```

```
index.html      styles.css      script.js      +  ⌂  ⌂
154
155 .product-price {
156   font-size: 22px;
157   font-weight: bold;
158   color: #e74c3c;
159 }
160
161 .add-to-cart-btn {
162   background-color: #3498db;
163   color: white;
164   border: none;
165   padding: 10px 20px;
166   border-radius: 5px;
167   cursor: pointer;
168   font-size: 14px;
169   font-weight: 600;
170   transition: background-color 0.3s ease, transform 0.2s ease;
171 }
172
173 .add-to-cart-btn:hover {
174   background-color: #2980b9;
175   transform: scale(1.05);
176 }
177
178 .add-to-cart-btn:active {
179   transform: scale(0.98);
180 }
181
182 .add-to-cart-btn.added {
183   background-color: #27ae60;
184 }
185
186 /* Toast Notification Styles */
187 .toast-notification {
188   position: fixed;
189   bottom: 20px;
190   right: 20px;
191   background-color: #27ae60;
192   color: white;
```

The image shows a code editor interface with two tabs visible at the top: "styles.css" and "script.js". The "styles.css" tab is currently active, displaying CSS code for a toast notification and responsive design. The "script.js" tab is also present but appears to be empty or contains minimal code.

```
index.html      styles.css      script.js      +  ⌂  ⌂
```

```
193 padding: 16px 24px;
194 border-radius: 8px;
195 box-shadow: 0 4px 15px rgba(0, 0, 0, 0.2);
196 display: none;
197 z-index: 1000;
198 animation: slideIn 0.3s ease forwards;
199 font-weight: 500;
200 }
201
202 .toast-notification.show {
203 display: block;
204 }
205
206 .toast-notification.hide {
207 animation: slideOut 0.3s ease forwards;
208 }
209
210 @keyframes slideIn {
211 from {
212 | transform: translateX(400px);
213 | opacity: 0;
214 }
215 to {
216 | transform: translateX(0);
217 | opacity: 1;
218 }
219 }
220
221 @keyframes slideOut {
222 from {
223 | transform: translateX(0);
224 | opacity: 1;
225 }
226 to {
227 | transform: translateX(400px);
228 | opacity: 0;
229 }
230 }
231
```



```
index.html      styles.css      script.js      +  ⌂  ⌂
```

```
232 /* Responsive Design */
233 @media (max-width: 768px) {
234 .products-grid {
235   grid-template-columns: repeat(auto-fill, minmax(200px, 1fr));
236   gap: 20px;
237 }
238
239 header h1 {
240   font-size: 22px;
241 }
242
243 .cart-icon {
244   font-size: 28px;
245 }
246
247 .products-section h2 {
248   font-size: 24px;
249 }
250 }
251
252 @media (max-width: 480px) {
253 .products-grid {
254   grid-template-columns: repeat(auto-fill, minmax(150px, 1fr));
255   gap: 15px;
256 }
257
258 main {
259   padding: 20px 10px;
260 }
261
262 .product-info {
263   padding: 15px;
264 }
265
266 .product-name {
267   font-size: 16px;
268 }
269
270 .add-to-cart-btn {
```

```
index.html      styles.css      script.js      +  ⌂  ⌁
1 // Product data
2 const products = [
3   {
4     id: 1,
5     name: 'Wireless Headphones',
6     description: 'High-quality sound with noise cancellation',
7     price: '$79.99',
8     emoji: '🎧'
9   },
10  {
11    id: 2,
12    name: 'Smart Watch',
13    description: 'Track your fitness and stay connected',
14    price: '$199.99',
15    emoji: '⌚'
16  },
17  {
18    id: 3,
19    name: 'Portable Speaker',
20    description: 'Powerful audio in a compact design',
21    price: '$49.99',
22    emoji: '🔊'
23  },
24  {
25    id: 4,
26    name: 'USB-C Cable',
27    description: 'Fast charging and data transfer',
28    price: '$12.99',
29    emoji: '🔌'
30  },
31  {
32    id: 5,
33    name: 'Phone Case',
34    description: 'Durable protection with style',
35    price: '$24.99',
36    emoji: '📱'
37  },
38  {
39    id: 6,
40    name: 'Screen Protector',
41    description: 'Crystal clear protection for your screen',
42    price: '$9.99',
43    emoji: '▢'
44  }
45];
46
47 // Cart state
48 let cartItems = [];
49
50 // Initialize the page
51 document.addEventListener('DOMContentLoaded', () => {
52   renderProducts();
53   loadCartFromLocalStorage();
54 });
55
56 // Render products in the grid
57 function renderProducts() {
58   const productsGrid = document.getElementById('productsGrid');
59
60   products.forEach(product => {
61     const productCard = createProductCard(product);
62     productsGrid.appendChild(productCard);
63   });
64 }
65
66 // Create a product card element
67 function createProductCard(product) {
68   const card = document.createElement('div');
69   card.className = 'product-card';
70
71   card.innerHTML =
72     `<div class="product-image">
73       ${product.emoji}
74     </div>
75     <div class="product-info">
76       <div class="product-name">${product.name}</div>
77       <div class="product-description">${product.description}</div>
78     </div>
79   `;
80
81   return card;
82 }
83
84 // Load cart items from localStorage
85 function loadCartFromLocalStorage() {
86   const cartString = localStorage.getItem('cart');
87   if (cartString) {
88     const cartItems = JSON.parse(cartString);
89     cartItems.forEach(item => {
90       cartItems.push(item);
91     });
92   }
93
94   renderCart();
95 }
96
97 // Render the cart
98 function renderCart() {
99   const cartGrid = document.getElementById('cartGrid');
100  cartGrid.innerHTML = '';
101
102  cartItems.forEach(item => {
103    const itemCard = createCartCard(item);
104    cartGrid.appendChild(itemCard);
105  });
106
107  calculateTotal();
108 }
109
110 // Calculate total price
111 function calculateTotal() {
112   const totalElement = document.getElementById('total');
113   const totalValue = cartItems.reduce((acc, item) => acc + item.price, 0);
114   totalElement.textContent = `Total: ${totalValue}`;
115 }
116
117 // Add event listener for adding items to cart
118 document.addEventListener('click', (e) => {
119   if (e.target.classList.contains('add-to-cart')) {
120     const item = e.target.parentElement;
121     const itemData = item.querySelector('.product-card').dataset;
122
123     const itemObject = {
124       id: itemData.id,
125       name: itemData.name,
126       price: itemData.price,
127       quantity: 1
128     };
129
130     cartItems.push(itemObject);
131
132     renderCart();
133     calculateTotal();
134   }
135 });
136
137 // Save cart to localStorage
138 document.addEventListener('beforeunload', () => {
139   localStorage.setItem('cart', JSON.stringify(cartItems));
140 });
141
142 // Add event listener for removing items from cart
143 document.addEventListener('click', (e) => {
144   if (e.target.classList.contains('remove-from-cart')) {
145     const item = e.target.parentElement;
146     const itemData = item.querySelector('.product-card').dataset;
147
148     const itemIndex = cartItems.findIndex(item => item.id === itemData.id);
149
150     if (itemIndex !== -1) {
151       cartItems.splice(itemIndex, 1);
152     }
153
154     renderCart();
155     calculateTotal();
156   }
157 });
158
159 // Add event listener for clearing the cart
160 document.addEventListener('click', (e) => {
161   if (e.target.classList.contains('clear-cart')) {
162     cartItems = [];
163
164     renderCart();
165     calculateTotal();
166   }
167 });
168
169 // Add event listener for navigating to the cart
170 document.addEventListener('click', (e) => {
171   if (e.target.classList.contains('go-to-cart')) {
172     window.location.href = '/cart';
173   }
174 });
175
176 // Add event listener for navigating to the products page
177 document.addEventListener('click', (e) => {
178   if (e.target.classList.contains('go-to-products')) {
179     window.location.href = '/products';
180   }
181 });
182
183 // Add event listener for navigating to the home page
184 document.addEventListener('click', (e) => {
185   if (e.target.classList.contains('go-to-home')) {
186     window.location.href = '/';
187   }
188 });
189
190 // Add event listener for navigating to the about page
191 document.addEventListener('click', (e) => {
192   if (e.target.classList.contains('go-to-about')) {
193     window.location.href = '/about';
194   }
195 });
196
197 // Add event listener for navigating to the contact page
198 document.addEventListener('click', (e) => {
199   if (e.target.classList.contains('go-to-contact')) {
200     window.location.href = '/contact';
201   }
202 });
203
204 // Add event listener for navigating to the faq page
205 document.addEventListener('click', (e) => {
206   if (e.target.classList.contains('go-to-faq')) {
207     window.location.href = '/faq';
208   }
209 });
210
211 // Add event listener for navigating to the privacy page
212 document.addEventListener('click', (e) => {
213   if (e.target.classList.contains('go-to-privacy')) {
214     window.location.href = '/privacy';
215   }
216 });
217
218 // Add event listener for navigating to the terms page
219 document.addEventListener('click', (e) => {
220   if (e.target.classList.contains('go-to-terms')) {
221     window.location.href = '/terms';
222   }
223 });
224
225 // Add event listener for navigating to the help page
226 document.addEventListener('click', (e) => {
227   if (e.target.classList.contains('go-to-help')) {
228     window.location.href = '/help';
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622 });
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1124     window.location.href = '/help';
1125   }
1126 });
1127
1128 // Add event listener for navigating to the faq page
1129 document.addEventListener('click', (e) => {
1130
```

```
x.html      styles.css      script.js      +  ⌂  ⌂
1   <div class="product-footer">
2     <span class="product-price">${product.price}</span>
3     <button class="add-to-cart-btn" data-product-id="${product.id}">
4       Add to Cart
5     </button>
6   </div>
7 ;
8
9 // Add event listener to the button
10 const button = card.querySelector('.add-to-cart-btn');
11 button.addEventListener('click', (e) => {
12   e.stopPropagation();
13   addToCart(product, button);
14 });
15
16 return card;
17 }
18
19 // Add product to cart
20 function addToCart(product, buttonElement) {
21   // Add product to cart array
22   cartItems.push(product);
23
24   // Save cart to local storage
25   saveCartToLocalStorage();
26
27   // Update cart counter
28   updateCartCounter();
29
30   // Visual feedback
31   showAddedFeedback(buttonElement);
32
33   // Show toast notification
34   showToastNotification(` ${product.name} added to cart! `);
35 }
36
37 // Update cart counter display
38 function updateCartCounter() {
```

```
index.html      styles.css      script.js      +  ⌂  ⌂
117 const cartCounter = document.getElementById('cartCounter');
118 cartCounter.textContent = cartItems.length;
119
120 // Animate the counter
121 cartCounter.style.transform = 'scale(1.3)';
122 setTimeout(() => {
123   cartCounter.style.transform = 'scale(1)';
124 }, 200);
125 }
126
127 // Show visual feedback when product is added
128 function showAddedFeedback(buttonElement) {
129   const originalText = buttonElement.textContent;
130   const originalClass = buttonElement.className;
131
132   // Change button appearance
133   buttonElement.textContent = '✓ Added!';
134   buttonElement.classList.add('added');
135   buttonElement.disabled = true;
136
137   // Reset after 2 seconds
138   setTimeout(() => {
139     buttonElement.textContent = originalText;
140     buttonElement.className = originalClass;
141     buttonElement.disabled = false;
142   }, 2000);
143 }
144
145 // Show toast notification
146 function showToastNotification(message) {
147   const toast = document.getElementById('toastNotification');
148   toast.textContent = message;
149   toast.classList.add('show');
150   toast.classList.remove('hide');
151
152   // Auto-hide after 3 seconds
153   setTimeout(() => {
154     toast.classList.add('hide');
155     setTimeout(() => {
```

```

        setTimeout(() => {
          toast.classList.remove('show', 'hide');
        }, 300);
      }, 3000);
    }

    // Save cart to local storage
    function saveCartToLocalStorage() {
      localStorage.setItem('cart', JSON.stringify(cartItems));
    }

    // Load cart from local storage
    function loadCartFromLocalStorage() {
      const savedCart = localStorage.getItem('cart');
      if (savedCart) {
        cartItems = JSON.parse(savedCart);
        updateCartCounter();
      }
    }

    // Add animation to cart counter on update
    const style = document.createElement('style');
    style.textContent =
      `@keyframes counterPulse {
        0% {
          transform: scale(1);
        }
        50% {
          transform: scale(1.3);
        }
        100% {
          transform: scale(1);
        }
      }`;
    document.head.appendChild(style);
  }
}

```

OUTPUT :

MyStore

ctrl + enter

0

Wireless Headphones

High-quality sound with noise cancellation

\$79.99

Add to Cart

Smart Watch

Track your fitness and stay connected

\$199.99

Add to Cart

ctrl + enter

MyStore





Portable Speaker

Powerful audio in a compact design

\$49.99

Add to Cart



USB-C Cable

Fast charging and data transfer

\$12.99

Add to Cart

ctrl + enter

MyStore



Powerful audio in a compact design

\$49.99

Add to Cart

Fast charging and data transfer

\$12.99

Add to Cart



Phone Case

Durable protection with style

\$24.99

Add to Cart



Screen Protector

Crystal clear protection for your screen

\$9.99

Add to Cart

Task 5: Create a Responsive Web Page Layout

Instructions:

- Design a basic web page layout with a **header**, **main content area**, and **footer** using HTML and CSS.
 - Use AI to assist in generating **responsive CSS** for different screen sizes.
 - Ensure the layout is clean and visually organized.

Expected Output:

- A responsive web page with:
 - Header with navigation links
 - Main section with placeholder text/images
 - Footer with copyright or contact info
 - Layout adapts correctly to desktop, tablet, and mobile screen sizes

Note: Report should be submitted as a word document for all tasks in a single document with prompts, comments & code explanation, and output and if required, screenshots.

CODE:

```
index.html      styles.css      script.js      +  ⌂  ⌂
43          <p>Optimized for speed</p>
44          </div>
45          <div class="card">
46              
47              <h3>Responsive</h3>
48              <p>Works on all devices</p>
49          </div>
50      </div>
51  </div>
52 </section>
53
54 <section id="services" class="services">
55     <div class="container">
56         <h2>Services</h2>
57         <div class="grid">
58             <div class="service">
59                 <h4>Web Design</h4>
60                 <p>Creative web design solutions</p>
61             </div>
62             <div class="service">
63                 <h4>Development</h4>
64                 <p>Full stack development</p>
65             </div>
66             <div class="service">
67                 <h4>SEO</h4>
68                 <p>Search engine optimization</p>
69             </div>
70             <div class="service">
71                 <h4>Support</h4>
72                 <p>24/7 customer support</p>
73             </div>
74         </div>
75     </div>
76 </section>
77
78 <section id="contact" class="contact">
79     <div class="container">
80         <h2>Contact Us</h2>
81         <form>
82             <input type="text" placeholder="Name" required>
83             <input type="email" placeholder="Email" required>
84             <textarea placeholder="Message" rows="5" required></textarea>
```

```
85             <button type="submit">Send</button>
86         </form>
87     </div>
88 </section>
89 </main>
90
91 <footer>
92     <div class="container">
93         <p>© 2026 Brand. All rights reserved.</p>
94         <div class="footer-links">
95             <a href="#home">Home</a>
96             <a href="#about">About</a>
97             <a href="#services">Services</a>
98             <a href="#contact">Contact</a>
99         </div>
100    </div>
101 </footer>
102
103 <script src="script.js"></script>
104 </body>
105 </html>
```

```
index.html      styles.css  ✎  ×  script.js      +  ⌂  ⌂  
1 * {  
2   margin: 0;  
3   padding: 0;  
4   box-sizing: border-box;  
5 }  
6  
7 html {  
8   scroll-behavior: smooth;  
9 }  
10  
11 body {  
12   font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;  
13   line-height: 1.6;  
14   color: #333;  
15 }  
16  
17 .container {  
18   max-width: 1200px;  
19   margin: 0 auto;  
20   padding: 0 20px;  
21 }  
22  
23 header {  
24   background: #2c3e50;  
25   color: white;  
26   padding: 1rem 0;  
27   position: sticky;  
28   top: 0;  
29   z-index: 100;  
30   box-shadow: 0 2px 5px rgba(0,0,0,0.1);  
31 }  
32  
33 header .container {  
34   display: flex;  
35   justify-content: space-between;  
36   align-items: center;  
37 }  
38  
39 .logo {  
40   font-size: 24px;  
41   font-weight: bold;  
42   color: #3498db;
```

```
43 }  
44  
45 .nav {  
46   display: flex;  
47   gap: 30px;  
48 }  
49  
50 .nav a {  
51   color: white;  
52   text-decoration: none;  
53   transition: color 0.3s;  
54 }  
55  
56 .nav a:hover {  
57   color: #3498db;  
58 }  
59  
60 .menu-toggle {  
61   display: none;  
62   font-size: 24px;  
63   cursor: pointer;  
64 }  
65  
66 .hero {  
67   background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);  
68   color: white;  
69   padding: 100px 20px;  
70   text-align: center;  
71 }  
72  
73 .hero h1 {  
74   font-size: 48px;  
75   margin-bottom: 10px;  
76 }  
77  
78 .hero p {  
79   font-size: 20px;  
80 }  
81  
82 .about, .services, .contact {  
83   padding: 60px 20px;  
84 }
```

```
85 .about {
86   background: #f8f9fa;
87 }
88
89 section h2 {
90   font-size: 36px;
91   text-align: center;
92   margin-bottom: 40px;
93   color: #2c3e50;
94 }
95
96 .grid {
97   display: grid;
98   grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
99   gap: 30px;
100 }
101
102 .card {
103   background: white;
104   padding: 30px;
105   border-radius: 8px;
106   box-shadow: 0 2px 10px rgba(0,0,0,0.1);
107   text-align: center;
108   transition: transform 0.3s;
109 }
110
111 .card:hover {
112   transform: translateY(-5px);
113 }
114
115 .card img {
116   width: 100%;
117   height: auto;
118   border-radius: 5px;
119   margin-bottom: 15px;
120 }
121
122 .card h3 {
123   margin-bottom: 10px;
124   color: #2c3e50;
125 }
126 }
```

```
index.html          styles.css          script.js      +
128 .card p {
129   color: #7f8c8d;
130 }
131
132 .service {
133   background: #ecf0f1;
134   padding: 25px;
135   border-radius: 5px;
136   border-left: 4px solid #3498db;
137 }
138
139 .service h4 {
140   margin-bottom: 10px;
141   color: #2c3e50;
142 }
143
144 .service p {
145   color: #7f8c8d;
146 }
147
148 .contact {
149   background: #f8f9fa;
150 }
151
152 form {
153   max-width: 500px;
154   margin: 0 auto;
155   display: flex;
156   flex-direction: column;
157   gap: 15px;
158 }
159
160 input, textarea {
161   padding: 12px;
162   border: 1px solid #ddd;
163   border-radius: 5px;
164   font-family: inherit;
165   font-size: 14px;
166 }
167
168 input:focus, textarea:focus {
169   outline: none;
170 }
```

```
index.html          styles.css           script.js      +  ⌂ ⌂
170  border-color: #3498db;
171  box-shadow: 0 0 5px rgba(52, 152, 219, 0.3);
172 }
173
174 button {
175   padding: 12px;
176   background: #3498db;
177   color: white;
178   border: none;
179   border-radius: 5px;
180   font-size: 16px;
181   cursor: pointer;
182   transition: background 0.3s;
183 }
184
185 button:hover {
186   background: #2980b9;
187 }
188
189 footer {
190   background: #2c3e50;
191   color: white;
192   padding: 30px 20px;
193   text-align: center;
194 }
195
196 footer .container {
197   display: flex;
198   justify-content: space-between;
199   align-items: center;
200   flex-wrap: wrap;
201   gap: 20px;
202 }
203
204 .footer-links {
205   display: flex;
206   gap: 20px;
207 }
208
209 .footer-links a {
210   color: #bdc3c7;
211   text-decoration: none;
212 }
```

```
index.html          styles.css           script.js      +  ⌂ ⌂
212   transition: color 0.3s;
213 }
214
215 .footer-links a:hover {
216   color: #3498db;
217 }
218
219 @media (max-width: 768px) {
220   .menu-toggle {
221     display: block;
222   }
223
224   .nav {
225     position: absolute;
226     top: 60px;
227     left: 0;
228     width: 100%;
229     background: #2c3e50;
230     flex-direction: column;
231     gap: 0;
232     padding: 20px;
233     max-height: 0;
234     overflow: hidden;
235     transition: max-height 0.3s;
236   }
237
238 .nav.active {
239   max-height: 300px;
240 }
241
242 .nav a {
243   padding: 10px 0;
244   border-bottom: 1px solid #34495e;
245 }
246
247 .hero h1 {
248   font-size: 32px;
249 }
250
251 .hero p {
252   font-size: 16px;
253 }
```

index.html styles.css script.js

```

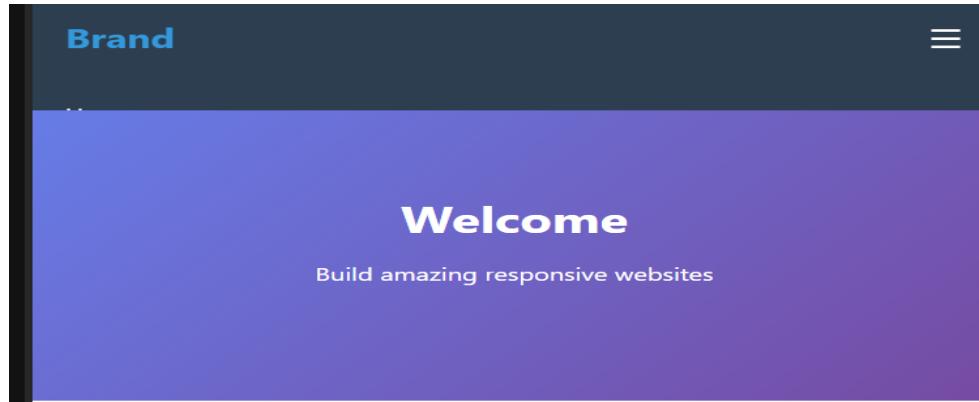
254
255  section h2 {
256    font-size: 28px;
257  }
258
259  .grid {
260    grid-template-columns: 1fr;
261  }
262
263  footer .container {
264    flex-direction: column;
265  }
266}
267
268 @media (max-width: 480px) {
269   .logo {
270     font-size: 20px;
271   }
272
273   .hero {
274     padding: 50px 20px;
275   }
276
277   .hero h1 {
278     font-size: 24px;
279   }
280
281   .hero p {
282     font-size: 14px;
283   }
284
285   .about, .services, .contact {
286     padding: 40px 20px;
287   }
288
289   section h2 {
290     font-size: 22px;
291     margin-bottom: 25px;
292   }
293
294   .card, .service {
295     padding: 20px;
296   }
297
298   .footer-links {
299     flex-direction: column;
300     gap: 10px;
301   }
302 }
```

index.html styles.css script.js

```

1 const hamburger = document.getElementById('hamburger');
2 const navbar = document.querySelector('.navbar');
3
4 hamburger.addEventListener('click', () => {
5   hamburger.classList.toggle('active');
6   navbar.classList.toggle('active');
7 });
8
9 document.querySelectorAll('.nav-link').forEach(link => {
10   link.addEventListener('click', () => {
11     hamburger.classList.remove('active');
12     navbar.classList.remove('active');
13   });
14 });
15
16 document.querySelector('.contact-form').addEventListener('submit', (e) => {
17   e.preventDefault();
18   alert('Thank you for your message!');
19   e.target.reset();
20 });
21
22 document.querySelector('.cta-btn').addEventListener('click', () => {
23   document.getElementById('services').scrollIntoView({behavior: 'smooth'});
24 });
```

OUTPUT :



The mobile website header features a dark blue bar at the top. On the left is a white "Brand" logo, and on the right is a white three-line menu icon.

Welcome

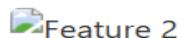
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Fast Performance

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