

AI_ASSISTED ASSIGNMENT 14.3

NAME: MOHAMMED FAISAL QURESHI

H.NO: 2303A53015

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:

```
index.html  styles.css  script.js  +  [Icons]  [Edit Icon]

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>Your Name | Portfolio</title>
7   <link rel="stylesheet" href="styles.css">
8 </head>
9 <body>
10   <nav>
11     <ul>
12       <li><a href="#home">Home</a></li>
13       <li><a href="#about">About</a></li>
14       <li><a href="#projects">Projects</a></li>
15       <li><a href="#contact">Contact</a></li>
16     </ul>
17   </nav>
18   <section id="home">
19     <h1>Welcome to My Portfolio</h1>
20     <p>Short introduction or tagline.</p>
21   </section>
22   <section id="about">
23     <h2>About Me</h2>
24     <p>Insert your biography, education, and skill summary here.</p>
25   </section>
26   <section id="projects">
27     <h2>Projects</h2>
28     <div class="projects-grid">
29       <div class="project-card">
30         <h3>Project Title</h3>
31         <p>Project description.</p>
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>
```

```

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:



- [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       
34       <h3>Pasta Fresca</h3>
35       <p>Homemade noodles with fresh tomato sauce.</p>
36       <span>$14</span>
37     </div>
38     <div class="menu-card">
39       
40       <h3>Classic Pizza</h3>
41       <p>Stone-baked with your choice of toppings.</p>

```

```

42       <span>$12</span>
43     </div>
44     <div class="menu-card">
45       
46       <h3>Garden Salad</h3>
47       <p>Crisp greens with house vinaigrette.</p>
48       <span>$8</span>
49     </div>
50   </div>
51 </section>
52
53 <!-- Gallery Section -->
54 <section id="gallery">
55   <h2>Gallery</h2>
56   <div class="slider">
57     <div class="slides">
58       
59       
60       
61     </div>
62     <button class="prev">&#10094;</button>
63     <button class="next">&#10095;</button>
64   </div>
65 </section>
66
67 <!-- Contact Section -->
68 <section id="contact">
69   <h2>Contact Us</h2>
70   <form>
71     <input type="text" placeholder="Your Name" required/>
72     <input type="email" placeholder="Your Email" required/>
73     <textarea placeholder="Message..." required/></textarea>
74     <button type="submit">Send</button>
75   </form>
76 </section>
77
78 <script src="script.js"></script>
79 </body>
80 </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: #fffef9; }
#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
30 /* Gallery Section & Slider */
31 #gallery { padding: 60px 20px; }
32 #gallery h2 { text-align: center; color: #bf452b; }
33 .slider {
34   position: relative; max-width: 420px; margin: 2rem auto 0 auto; overflow: hidden; border-radius: 10px; background: #fff;
35   box-shadow: 0 2px 20px #dda17b29;
36 }
37 .slides { display: flex; transition: transform 0.7s cubic-bezier(.52,.17,.21,.83); }
38 .slide {
39   min-width: 100%; opacity: 0; transition: opacity 0.7s;
40   height: 270px; object-fit: cover;
41   position: relative;
42 }
43 .slide:after {
44   content: "Gallery Images";
45   position: absolute; bottom: 0; left: 0; right: 0;
46 }
47 .slide.active { opacity: 1; }
48 .prev, .next {
49   position: absolute; top: 50%; transform: translateY(-50%);
50   background: #af3e2b; color: #fff; border: none; font-size: 1.8rem;
51   border-radius: 50%; padding: 0.5em 0.8em; cursor: pointer;
52   opacity: 0.7; transition: background 0.2s, opacity 0.2s;
53 }

```

```

}
.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; }
}

```

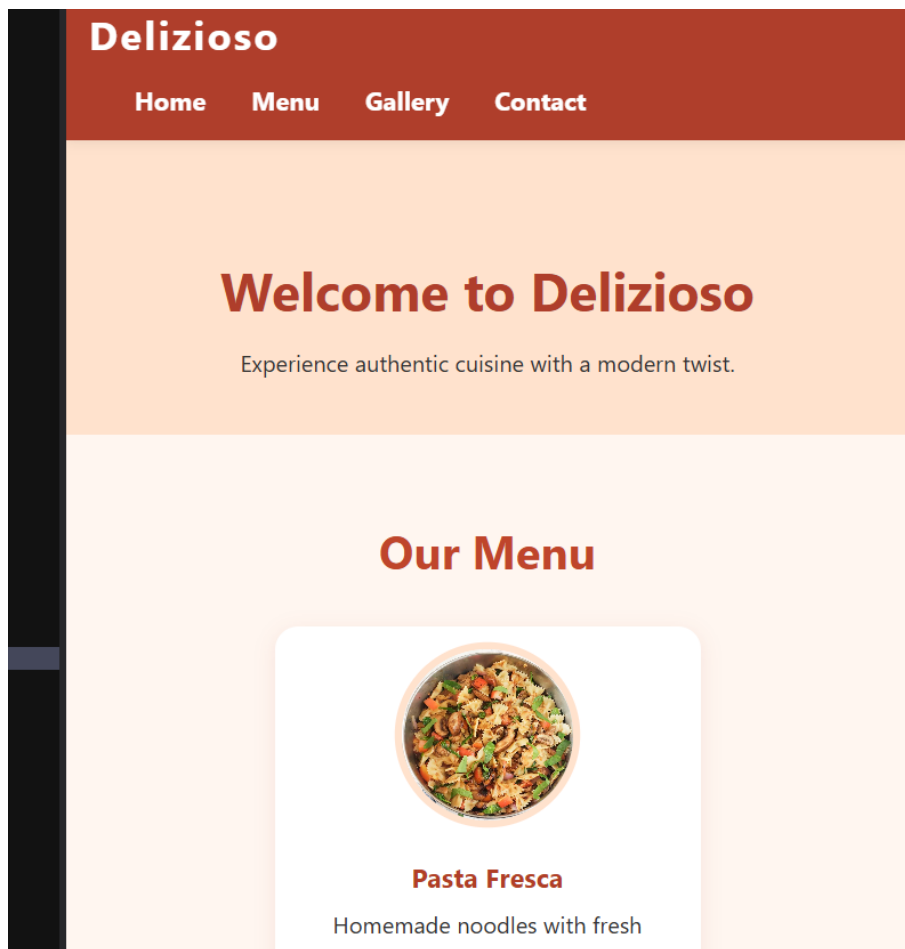
SCRIPT JS:

```

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
29

```

OUTPUT:



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

1. Ask Copilot to generate an HTML form with the following fields:
 - Name
 - Email
 - Phone Number
 - Department
 - Event Selection
2. Use AI assistance to style the form using CSS for readability and accessibility.
3. 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: #e68388;
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));

```



```

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     fields.forEach(f => {
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*:

Email*:

Phone Number*:

Department*:

Event Selection*:

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:

- 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:

```

index.html      styles.css      script.js      +  [icon]  [icon]
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"><img alt="Cart icon" data-bbox="495 370 515 385"/></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>

```

```

index.html      styles.css      script.js      +  [icon]  [icon]
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  +  [icon]  [icon]

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

```
index.html  styles.css  script.js  +  [icon]  [icon]

75     color: #2c3e50;
76 }
77
78 ~ .products-grid {
79     display: grid;
80     grid-template-columns: repeat(auto-fill, minmax(280px, 1fr));
81     gap: 30px;
82     margin-bottom: 40px;
83 }
84
85 ~ .product-card {
86     background: white;
87     border-radius: 8px;
88     overflow: hidden;
89     box-shadow: 0 2px 15px rgba(0, 0, 0, 0.1);
90     transition: transform 0.3s ease, box-shadow 0.3s ease;
91     cursor: pointer;
92 }
93
94 ~ .product-card:hover {
95     transform: translateY(-8px);
96     box-shadow: 0 8px 25px rgba(0, 0, 0, 0.15);
97 }
98
99 ~ .product-image {
100     width: 100%;
101     height: 250px;
102     background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);
103     display: flex;
104     align-items: center;
105     justify-content: center;
106     font-size: 80px;
107     color: white;
108     overflow: hidden;
109 }
110
111 ~ .product-card:nth-child(2) .product-image {
112     background: linear-gradient(135deg, #f093fb 0%, #f5576c 100%);
113 }
```

```
index.html  styles.css  script.js  +  [icon]  [icon]

---
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, #30cfd0 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  +  [icon]  [icon]

---
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;
```

```

index.html      styles.css      script.js      +  [icon]  [icon]
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      +  [icon]  [icon]
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    +    [icon]    [icon]

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   {
```

```
index.html    styles.css    script.js    +    [icon]    [icon]

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>
```

```

x.html      styles.css      script.js      +  [icon]  [icon]
3           <div class="product-footer">
4             <span class="product-price">${product.price}</span>
5             <button class="add-to-cart-btn" data-product-id="${product.id}">
6               Add to Cart
7             </button>
8           </div>
9         </div>
10      }
11    }
12
13    // Add event listener to the button
14    const button = card.querySelector('.add-to-cart-btn');
15    button.addEventListener('click', (e) => {
16      e.stopPropagation();
17      addToCart(product, button);
18    });
19
20    return card;
21  }
22
23  // Add product to cart
24  function addToCart(product, buttonElement) {
25    // Add product to cart array
26    cartItems.push(product);
27
28    // Save cart to local storage
29    saveCartToLocalStorage();
30
31    // Update cart counter
32    updateCartCounter();
33
34    // Visual feedback
35    showAddedFeedback(buttonElement);
36
37    // Show toast notification
38    showToastNotification(`${product.name} added to cart!`);
39  }
40
41  // Update cart counter display
42  function updateCartCounter() {

```

```

index.html  styles.css      script.js      +  [icon]  [icon]
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);
}

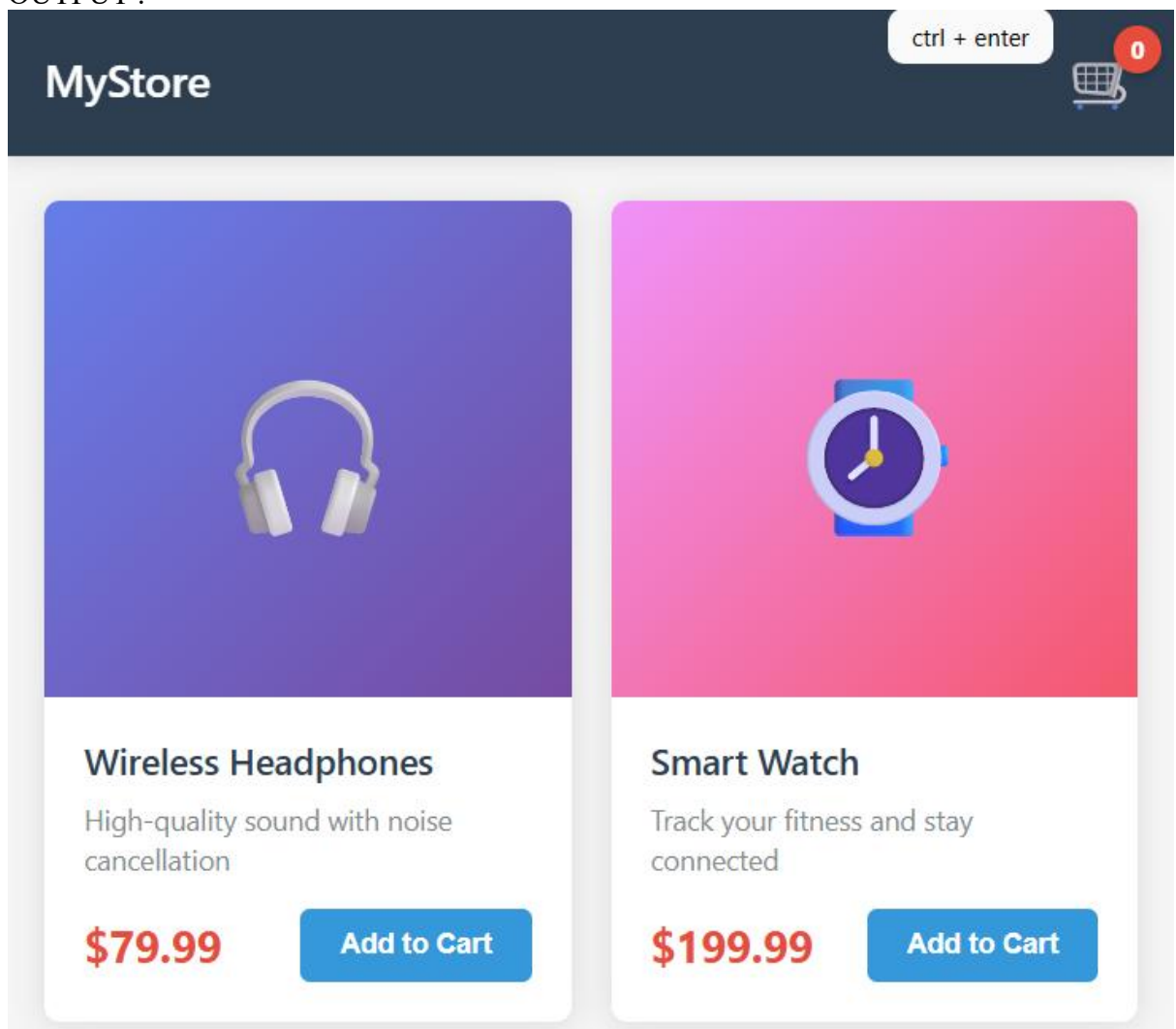
// Save cart to local storage
function saveCartToLocalStorage() {
    localStorage.setItem('cart', JSON.stringify(cartItems));
}

// 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

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](#)

MyStore

ctrl + enter

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](#)

```
index.html      styles.css      script.js      + [ ] [ ] MOHA
```

```
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>Responsive Layout</title>
7   <link rel="stylesheet" href="styles.css">
8 </head>
9 <body>
10   <header>
11     <div class="container">
12       <div class="logo">Brand</div>
13       <nav class="nav">
14         <a href="#home">Home</a>
15         <a href="#about">About</a>
16         <a href="#services">Services</a>
17         <a href="#contact">Contact</a>
18       </nav>
19       <div class="menu-toggle" id="menuToggle">☰</div>
20     </div>
21   </header>
22
23   <main>
24     <section id="home" class="hero">
25       <div class="container">
26         <h1>Welcome</h1>
27         <p>Build amazing responsive websites</p>
28       </div>
29     </section>
30
31     <section id="about" class="about">
32       <div class="container">
33         <h2>About Us</h2>
34         <div class="grid">
35           <div class="card">
36             
37             <h3>Quality Design</h3>
38             <p>Beautiful and modern designs</p>
39           </div>
40           <div class="card">
41             
42             <h3>Fast Performance</h3>
```

```

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  +  [icon]  [icon]

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

```

```

index.html      styles.css      script.js      +      [icon]      5
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;

```

```

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;

```

```

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      }

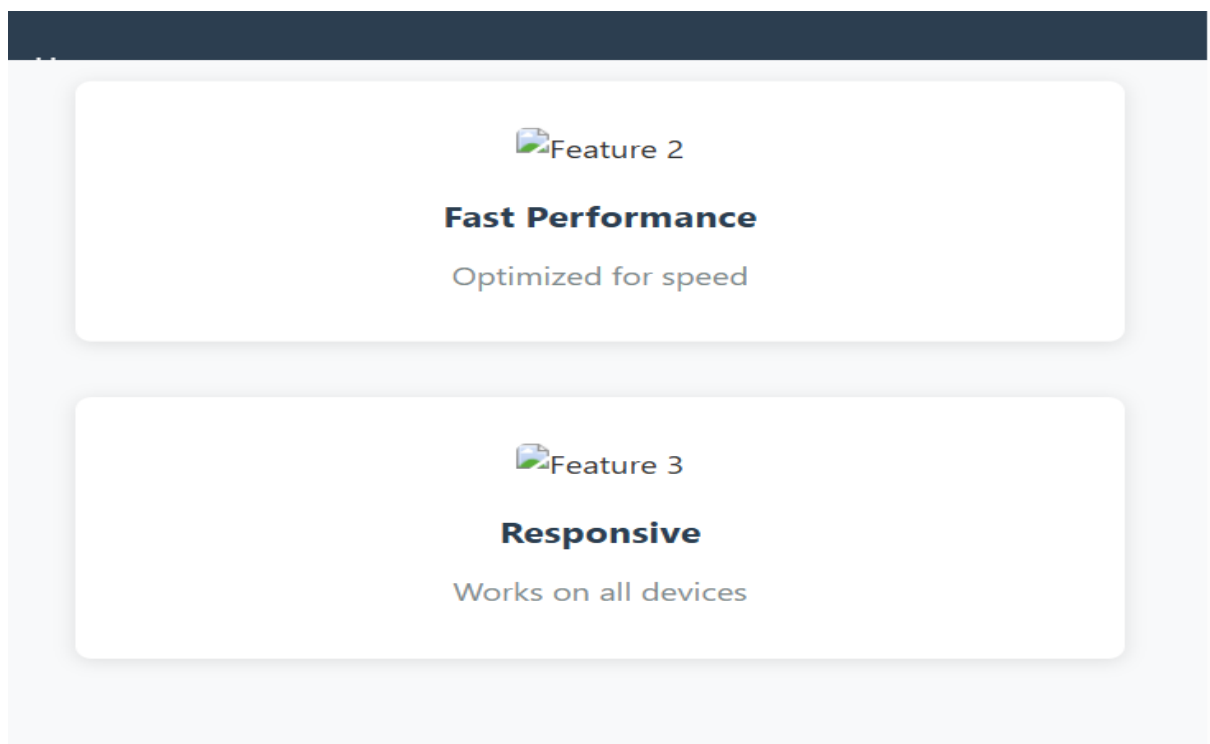
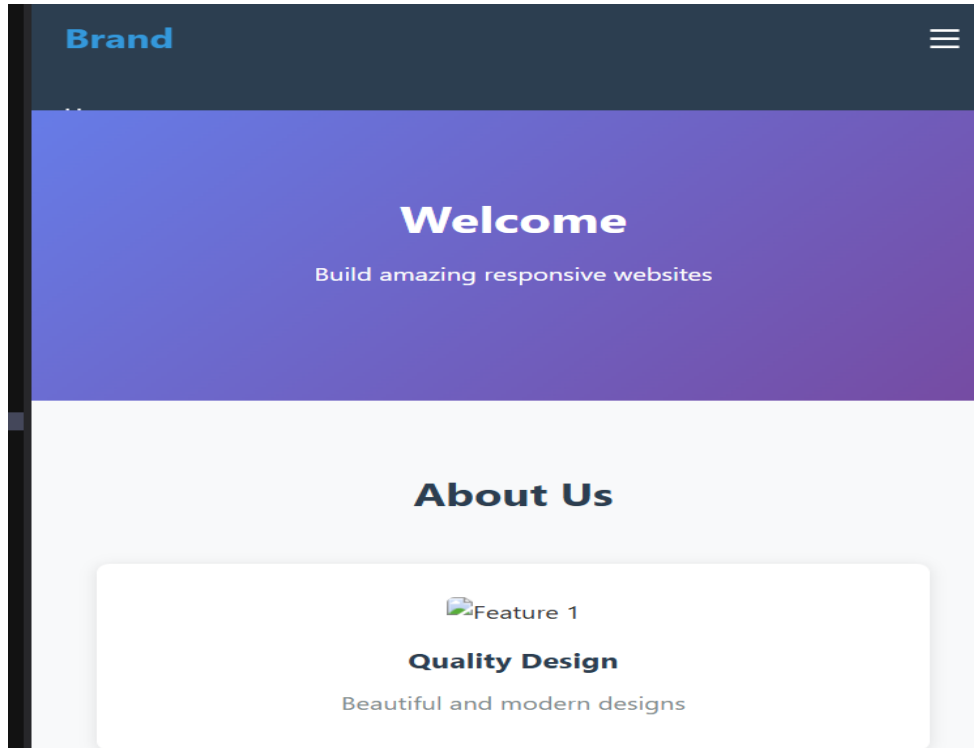
```

```
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;
```

```
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 :



Services

Web Design

Creative web design solutions

Development

Full stack development

SEO

Search engine optimization

Support

24/7 customer support

Contact Us

Send