

Responsive Webpage Project

This project demonstrates a responsive webpage using HTML, CSS, and JavaScript. It includes:

- A responsive navigation bar with a hamburger menu for small screens.
- A flexible hero section with image and text.
- Responsive cards using CSS Grid/Flexbox.
- Media queries for screen adaptability.
- JavaScript for menu toggle.

Below are the source code files used in the project.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <title>Responsive Webpage</title>
  <link rel="stylesheet" href="style.css" />
</head>
<body>

  <header>
    <nav class="navbar">
      <div class="logo">MySite</div>
      <ul class="nav-links" id="navLinks">
        <li><a href="#">Home</a></li>
        <li><a href="#">About</a></li>
        <li><a href="#">Services</a></li>
        <li><a href="#">Contact</a></li>
      </ul>
      <div class="hamburger" id="hamburger">&#9776;</div>
    </nav>
  </header>

  <section class="hero">
    <div class="hero-text">
      <h1>Responsive Design</h1>
      <p>This page adapts to any device - mobile, tablet, or desktop!</p>
    </div>
    <div class="hero-image">
      
    </div>
  </section>

  <section class="cards">
    <div class="card">Card 1: Responsive Layout</div>
    <div class="card">Card 2: CSS Grid/Flexbox</div>
    <div class="card">Card 3: Media Queries</div>
  </section>

  <footer>
    <p>&copy; 2025 Responsive Webpage. All rights reserved.</p>
  </footer>

  <script src="script.js"></script>
</body>
</html>
```

style.css

```
/* Base styles */
body {
  margin: 0;
  font-family: 'Segoe UI', sans-serif;
  line-height: 1.6;
}

header {
  background-color: #333;
  color: #fff;
}

.navbar {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 1rem;
}

.nav-links {
  display: flex;
  list-style: none;
  gap: 1rem;
}

.nav-links li a {
  color: white;
  text-decoration: none;
}

.hamburger {
  display: none;
  font-size: 1.5rem;
  cursor: pointer;
}

.hero {
  display: flex;
  flex-wrap: wrap;
  align-items: center;
  padding: 2rem;
  background: #f4f4f4;
}

.hero-text {
  flex: 1;
  padding: 1rem;
}

.hero-image {
  flex: 1;
  padding: 1rem;
}
```

```
}

.hero-image img {
  width: 100%;
  max-width: 100%;
  height: auto;
}

.cards {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
  gap: 1rem;
  padding: 2rem;
}

.card {
  background: #ddd;
  padding: 1.5rem;
  border-radius: 8px;
  text-align: center;
}

footer {
  background: #333;
  color: white;
  padding: 1rem;
  text-align: center;
}

/* Responsive breakpoints */
@media (max-width: 768px) {
  .nav-links {
    display: none;
    flex-direction: column;
    background: #444;
    position: absolute;
    top: 60px;
    right: 0;
    width: 200px;
  }

  .nav-links.show {
    display: flex;
  }

  .hamburger {
    display: block;
  }

  .hero {
    flex-direction: column;
  }
}
```

script.js

```
const hamburger = document.getElementById('hamburger');
const navLinks = document.getElementById('navLinks');

hamburger.addEventListener('click', () => {
  navLinks.classList.toggle('show');
});
```