

Assignment 4: Enhance the page by adding CSS3 animations to the menu and form elements. Also, use media queries to make the page responsive, ensuring it looks good on both desktop and mobile screen sizes.

HTML Code:-

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Enhanced Navigation Bar Example</title>

  <link rel="stylesheet" href="styles.css">

</head>

<body>

<header>

  <nav>

    <ul class="nav-menu">

      <li><a href="#home" class="active">Home</a></li>

      <li><a href="#about">About</a></li>

      <li><a href="#services">Services</a></li>

      <li><a href="#contact">Contact</a></li>

    </ul>

  </nav>

</header>

<section id="home">

  <h1>Home</h1>

  <p>Welcome to the home section.</p>
```

</section>

<section id="about">

<h1>About</h1>

<p>Welcome to the about section.</p>

</section>

<section id="services">

<h1>Services</h1>

<p>Welcome to the services section.</p>

</section>

<section id="contact">

<h1>Contact</h1>

<p>Welcome to the contact section.</p>

<form id="contact-form">

<label for="name">Name:</label>

<input type="text" id="name" name="name">

<label for="email">Email:</label>

<input type="email" id="email" name="email">

<label for="message">Message:</label>

<textarea id="message" name="message"></textarea>

<button type="submit">Submit</button>

</form>

</section>

</body>

</html>

Css Code:-

```
body {  
    font-family: Arial, sans-serif;  
    margin: 0;  
    padding: 0;  
}
```

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

```
.nav-menu {  
    list-style: none;  
    margin: 0;  
    padding: 0;  
    display: flex;  
    justify-content: center;  
    transition: all 0.3s ease-in-out;  
}
```

```
.nav-menu li {  
    margin: 0;  
}
```

```
.nav-menu a {  
    display: block;  
    padding: 15px 20px;  
    text-decoration: none;  
    color: white;
```

```
    transition: background-color 0.3s, transform 0.3s;
}
```

```
.nav-menu a:hover {
    background-color: #575757;
    transform: scale(1.1);
}
```

```
.nav-menu .active {
    background-color: #4CAF50;
    animation: pulse 1s infinite;
}
```

```
@keyframes pulse {
    0% {
        transform: scale(1);
    }
    50% {
        transform: scale(1.05);
    }
    100% {
        transform: scale(1);
    }
}
```

```
section {
    padding: 20px;
}
```

```
form {  
  max-width: 400px;  
  margin: 0 auto;  
  display: flex;  
  flex-direction: column;  
  gap: 10px;  
}
```

```
form input, form textarea, form button {  
  padding: 10px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
  transition: all 0.3s ease-in-out;  
}
```

```
form input:focus, form textarea:focus {  
  border-color: #4CAF50;  
  box-shadow: 0 0 10px rgba(76, 175, 80, 0.5);  
}
```

```
form button {  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  cursor: pointer;  
}
```

```
form button:hover {  
  background-color: #45a049;
```

```
}
```

```
@media (max-width: 768px) {
```

```
  .nav-menu {
```

```
    flex-direction: column;
```

```
  }
```

```
  .nav-menu a {
```

```
    text-align: center;
```

```
    padding: 10px;
```

```
  }
```

```
}
```

Explanation

CSS Animations:

The transition property is used on .nav-menu and a elements to create smooth transitions for hover effects.

The @keyframes rule defines a pulse animation for the active menu item, making it slightly expand and contract continuously.

Form elements have a transition for focus states to create a smooth border and shadow effect.

Form Styling:

The form and its elements are styled for a clean, user-friendly appearance.

input, textarea, and button elements have padding, border, and border-radius for consistency.

Focused input fields are highlighted with a green border and shadow.

Media Queries:

A media query is used to make the navigation bar responsive.

For screens with a maximum width of 768px, the navigation bar items stack vertically instead of horizontally.

Padding is adjusted for the smaller screen sizes to ensure usability.