Assignment-14.1

Name: D. Sravika Reddy　　Roll No: 2403a510d0

Batch No: 05　　Course: Ai Assisted Coding

Task 1 – Portfolio Website Design
You are building a personal portfolio website to showcase your work.
Requirements:
• Create sections for About Me, Projects, and Contact.
• Use AI to:
o Suggest color palettes and typography.
o Create a responsive layout with Grid/Flexbox.
o Add smooth scrolling navigation.

#Prompt: Design a modern, responsive personal portfolio website featuring sections for About Me, Projects, and Contact. Incorporate AI suggestions for color palettes and typography, utilize Flexbox/Grid for layout, and include smooth scrolling navigation. Provide complete HTML, CSS, and JavaScript code for implementation

Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1" />
```

```
<title>Portfolio - Your Name</title>
<style>
  /* Color palette */
  :root {
    --primary-color: #2c3e50;   /* Dark Blue */
    --secondary-color: #18bc9c; /* Turquoise */
    --accent-color: #e67e22;    /* Orange */
    --bg-color: #ecf0f1;        /* Light Gray */
    --text-color: #34495e;      /* Medium Blue-gray */
    --font-primary: 'Montserrat', sans-serif;
    --font-secondary: 'Roboto', sans-serif;
  }
  * {
    box-sizing: border-box;
    scroll-behavior: smooth;
  }
  body {
    margin: 0;
    font-family: var(--font-primary);
    background-color: var(--bg-color);
    color: var(--text-color);
    line-height: 1.6;
  }
```

```
a {
  color: var(--secondary-color);
  text-decoration: none;
  transition: color 0.3s ease;
}
a:hover {
  color: var(--accent-color);
}
header {
  position: fixed;
  width: 100%;
  top: 0;
  background: var(--primary-color);
  padding: 1rem 2rem;
  display: flex;
  justify-content: space-between;
  align-items: center;
  z-index: 1000;
  box-shadow: 0 2px 4px rgba(0,0,0,0.2);
}
header h1 {
  margin: 0;
  font-size: 1.5rem;
  color: #fff;
  font-weight: 700;
}
nav ul {
  list-style: none;
  display: flex;
  gap: 1.5rem;
  margin: 0;
  padding: 0;
}
nav li {
  font-weight: 500;
  font-size: 1rem;
}
main {
  padding-top: 80px; /* space for fixed header */
  display: flex;
  flex-direction: column;
  gap: 4rem;
  max-width: 960px;
  margin: 0 auto;
  padding-left: 1rem;
  padding-right: 1rem;
```

```
}
section {
  background: #fff;
  padding: 2rem;
  border-radius: 12px;
  box-shadow: 0 8px 16px rgba(0,0,0,0.1);
}
h2 {
  font-family: var(--font-secondary);
  font-size: 2rem;
  border-bottom: 3px solid var(--secondary-color);
  padding-bottom: 0.3rem;
  margin-bottom: 1.5rem;
  color: var(--primary-color);
}
#about p {
  font-size: 1.1rem;
  max-width: 680px;
}
#projects {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(280px, 1fr));
  gap: 1.8rem;
```

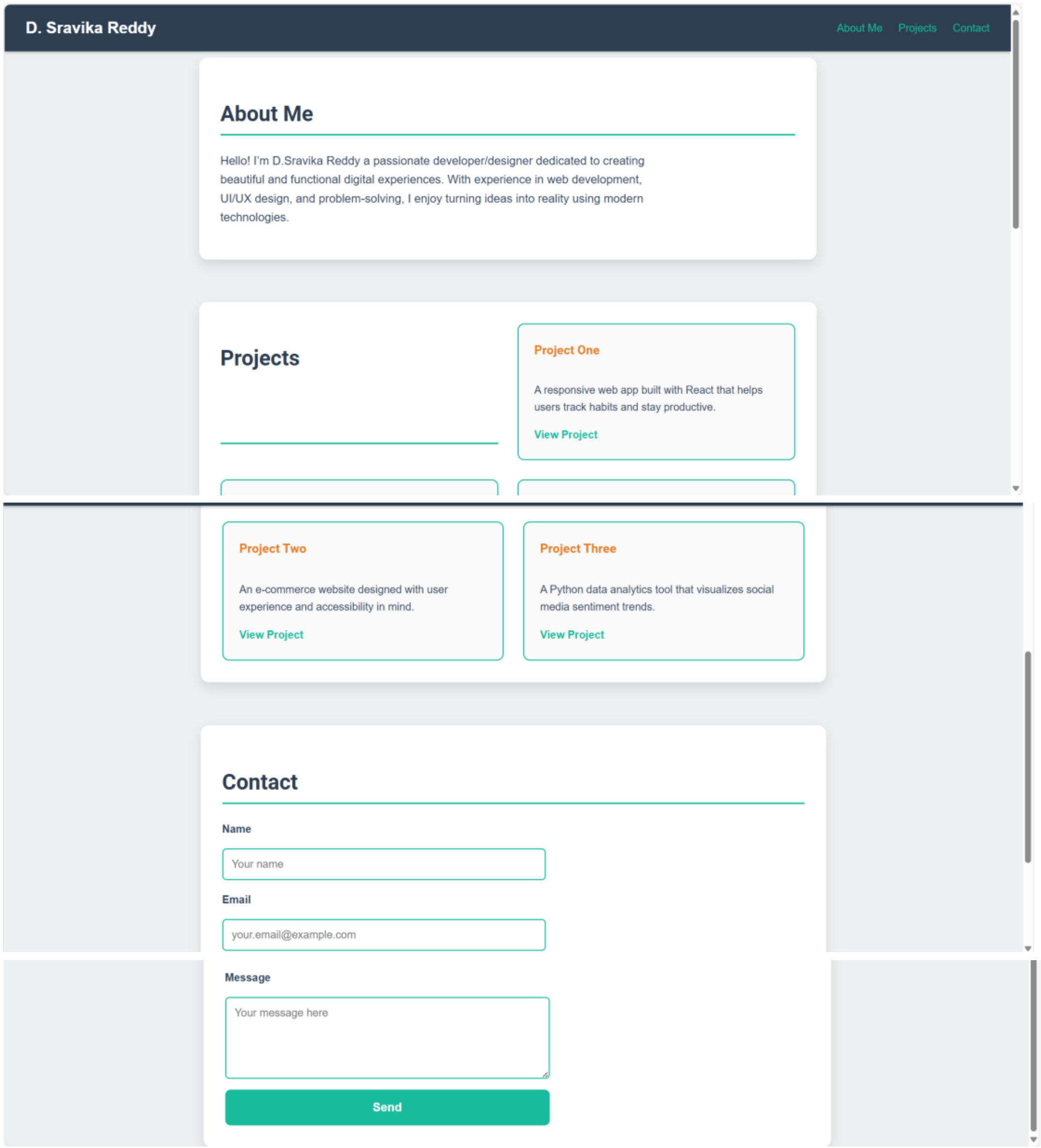
```css
}
.project-card {
  border: 2px solid var(--secondary-color);
  border-radius: 10px;
  padding: 1.5rem;
  display: flex;
  flex-direction: column;
  justify-content: space-between;
  transition: transform 0.3s ease, box-shadow 0.3s ease;
  background: #fafafa;
}
.project-card:hover {
  transform: translateY(-10px);
  box-shadow: 0 12px 24px rgba(24, 188, 156, 0.3);
}
.project-card h3 {
  margin: 0 0 1rem 0;
  color: var(--accent-color);
  font-family: var(--font-secondary);
}
.project-card p {
  flex-grow: 1;
  color: var(--text-color);
  margin-bottom: 1rem;
}
.project-card a {
  align-self: flex-start;
  font-weight: 600;
}
#contact form {
  display: flex;
  flex-direction: column;
  gap: 1rem;
  max-width: 480px;
}
#contact label {
  font-weight: 600;
}
#contact input, #contact textarea {
  padding: 0.8rem;
  border: 2px solid var(--secondary-color);
  border-radius: 6px;
  font-size: 1rem;
  font-family: var(--font-primary);
  transition: border-color 0.3s ease;
}
```

```
#contact input:focus, #contact textarea:focus {
  outline: none;
  border-color: var(--accent-color);
  background: #fff;
}
#contact button {
  padding: 1rem;
  font-size: 1.1rem;
  border: none;
  border-radius: 8px;
  background: var(--secondary-color);
  color: #fff;
  font-weight: 700;
  cursor: pointer;
  transition: background-color 0.3s ease;
}
#contact button:hover {
  background: var(--accent-color);
}
@media (max-width: 600px) {
  nav ul {
    flex-direction: column;
    background: var(--primary-color);
    position: fixed;
    top: 60px;
    right: -200px;
    width: 180px;
    transition: right 0.3s ease;
    border-radius: 8px 0 0 8px;
    padding: 1rem;
  }
  nav ul.open {
    right: 0;
  }
  nav li {
    margin-bottom: 1rem;
    font-size: 1.2rem;
  }
  .menu-toggle {
    display: block;
    cursor: pointer;
    color: #fff;
    font-size: 1.4rem;
    user-select: none;
  }
}
```

```
    .menu-toggle {
      display: none;
    }
  </style>
</head>
<body>
  <header>
    <h1>D. Sravika Reddy </h1>
    <nav>
      <span class="menu-toggle" id="menuToggle">☰</span>
      <ul id="navList">
        <li><a href="#about">About Me</a></li>
        <li><a href="#projects">Projects</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <section id="about">
      <h2>About Me</h2>
      <p>Hello! I’m D. Sravika Reddy a passionate
developer/designer dedicated to creating beautiful and
functional digital experiences. With experience in web
```

```
development, UI/UX design, and problem-solving, I enjoy turning ideas into reality using modern technologies.</p>
    </section>
    <section id="projects">
      <h2>Projects</h2>
      <div class="project-card">
        <h3>Project One</h3>
        <p>A responsive web app built with React that helps users track habits and stay productive.</p>
        <a href="#" target="_blank">View Project</a>
      </div>
      <div class="project-card">
        <h3>Project Two</h3>
        <p>An e-commerce website designed with user experience and accessibility in mind.</p>
        <a href="#" target="_blank">View Project</a>
      </div>
      <div class="project-card">
        <h3>Project Three</h3>
        <p>A Python data analytics tool that visualizes social media sentiment trends.</p>
        <a href="#" target="_blank">View Project</a>
      </div>
    </section>
    <section id="contact">
      <h2>Contact</h2>
      <form>
        <label for="name">Name</label>
        <input type="text" id="name" placeholder="Your name" required/>

        <label for="email">Email</label>
        <input type="email" id="email" placeholder="your.email@example.com" required/>
        <label for="message">Message</label>
        <textarea id="message" rows="5" placeholder="Your message here" required></textarea>
        <button type="submit">Send</button>
      </form>
    </section>
  </main>
  <script>
    const menuToggle = document.getElementById('menuToggle');
    const navList = document.getElementById('navList');
    menuToggle.addEventListener('click', () => {
      navList.classList.toggle('open');
    });
    navList.querySelectorAll('a').forEach(link =>
      link.addEventListener('click', () =>
navList.classList.remove('open'))
    );
  </script>
</body>
</html>
```

Output:



About Me

Hello! I'm D.Sravika Reddy a passionate developer/designer dedicated to creating beautiful and functional digital experiences. With experience in web development, UI/UX design, and problem-solving, I enjoy turning ideas into reality using modern technologies.

Projects

Project One

A responsive web app built with React that helps users track habits and stay productive.

Project Two

An e-commerce website designed with user experience and accessibility in mind.

Project Three

A Python data analytics tool that visualizes social media sentiment trends.

Contact

Name: Your name

Email: your.email@example.com

Message: Your message here

Task 2 – Online Store Product Page

Design a product display page for an online store.

Requirements:

- Display product image, title, price, and "Add to Cart" button.
- Use AI to:
  - Style with BEM methodology.
  - Make layout responsive.
  - Add hover effects and "Add to Cart" alert

Code:

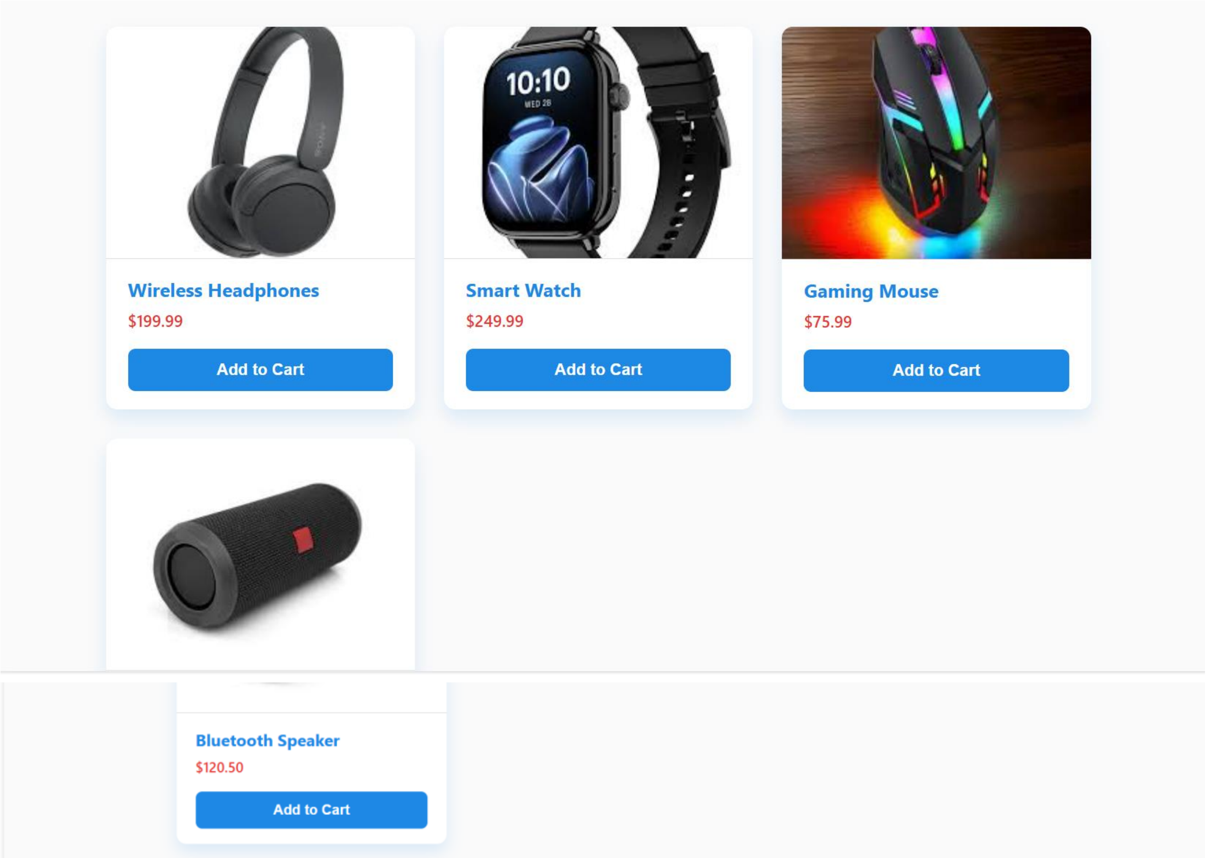
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Product Gallery - Cool Online Store</title>
  <style>
    :root {
      --primary-color: #1e88e5;
      --secondary-color: #e53935;
      --bg-color: #fafafa;
      --text-color: #333;
      --font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    }
```

```
 body {
  margin: 0;
  font-family: var(--font-family);
  background-color: var(--bg-color);
  color: var(--text-color);
  padding: 2rem;
  display: flex;
  justify-content: center;
 }
 .products {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(280px, 1fr));
  gap: 2rem;
  max-width: 1080px;
  width: 100%;
 }
 .product-card {
  background: #fff;
  border-radius: 12px;
  box-shadow: 0 10px 20px rgba(30, 136, 229, 0.15);
  overflow: hidden;
  display: flex;
  flex-direction: column;
  transition: transform 0.3s ease, box-shadow 0.3s ease;
}
.product-card:hover {
  transform: translateY(-8px);
  box-shadow: 0 20px 40px rgba(30, 136, 229, 0.3);
}
.product-card__image {
  width: 100%;
  aspect-ratio: 4 / 3;
  object-fit: cover;
  border-bottom: 1px solid #ddd;
}
.product-card__info {
  padding: 1.2rem 1.5rem;
  flex-grow: 1;
}

.product-card__title {
  font-size: 1.3rem;
  font-weight: 700;
  margin: 0 0 0.5rem 0;
  color: var(--primary-color);
}
.product-card__price {
  font-size: 1.1rem;
  font-weight: 600;
  margin: 0 0 1.2rem 0;
  color: var(--secondary-color);
}
.product-card__button {
  background-color: var(--primary-color);
  color: white;
  border: none;
  border-radius: 8px;
  padding: 0.8rem;
  width: 100%;
  font-size: 1.1rem;
  font-weight: 600;
  cursor: pointer;
  transition: background-color 0.3s ease;
}
.product-card__button:hover {
  background-color: #1565c0;
}
```

```
    @media (max-width: 400px) {
      body {
        padding: 1rem;
      }
      .products {
        grid-template-columns: 1fr;
        gap: 1.5rem;
      }
    }
  </style>
</head>
<body>
  <section class="products">
    <article class="product-card">
      <img src="https://images.unsplash.com/photo-1606813909317-a654bf4c568f?auto=format&fit=crop&w=600&q=80" alt="Wireless Headphones" class="product-card__image" />
      <div class="product-card__info">
        <h2 class="product-card__title">Wireless Headphones</h2>
        <p class="product-card__price">$199.99</p>
        <button class="product-card__button" data-name="Wireless Headphones">Add to Cart</button>
      </div>
    </article>
    <article class="product-card">
      <img src="https://images.unsplash.com/photo-1503602642458-232111445657?auto=format&fit=crop&w=600&q=80" alt="Smart Watch" class="product-card__image" />
      <div class="product-card__info">
        <h2 class="product-card__title">Smart Watch</h2>
        <p class="product-card__price">$249.99</p>
        <button class="product-card__button" data-name="Smart Watch">Add to Cart</button>
      </div>
    </article>

    <article class="product-card">
      <img src="https://images.unsplash.com/photo-1618224501159-1386e2d0e145?auto=format&fit=crop&w=600&q=80" alt="Gaming Mouse" class="product-card__image" />
      <div class="product-card__info">
        <h2 class="product-card__title">Gaming Mouse</h2>
        <p class="product-card__price">$75.99</p>
        <button class="product-card__button" data-name="Gaming Mouse">Add to Cart</button>
      </div>
    </article>
    <article class="product-card">
      <img src="https://images.unsplash.com/photo-1560448204-0c1bc7de7a7a?auto=format&fit=crop&w=600&q=80" alt="Bluetooth Speaker" class="product-card__image" />
      <div class="product-card__info">
        <h2 class="product-card__title">Bluetooth Speaker</h2>
        <p class="product-card__price">$120.50</p>
        <button class="product-card__button" data-name="Bluetooth Speaker">Add to Cart</button>
      </div>
    </article>
  </section>
  <script>
    const buttons = document.querySelectorAll('.product-card__button');
    buttons.forEach(button => {
      button.addEventListener('click', () => {
        const productName = button.getAttribute('data-name');
        alert(`Added "${productName}" to your cart!`);
      });
```

```
   });
  </script>
</body>
</html>
```

Output:



Task 3 – Event Registration Form

Build an event registration form for a conference.

Requirements:

• Collect name, email, phone number, and session selection.

• Use AI to:

o Add form validation with JavaScript.

o Make the form accessible with labels and ARIA.

o Style with a professional look

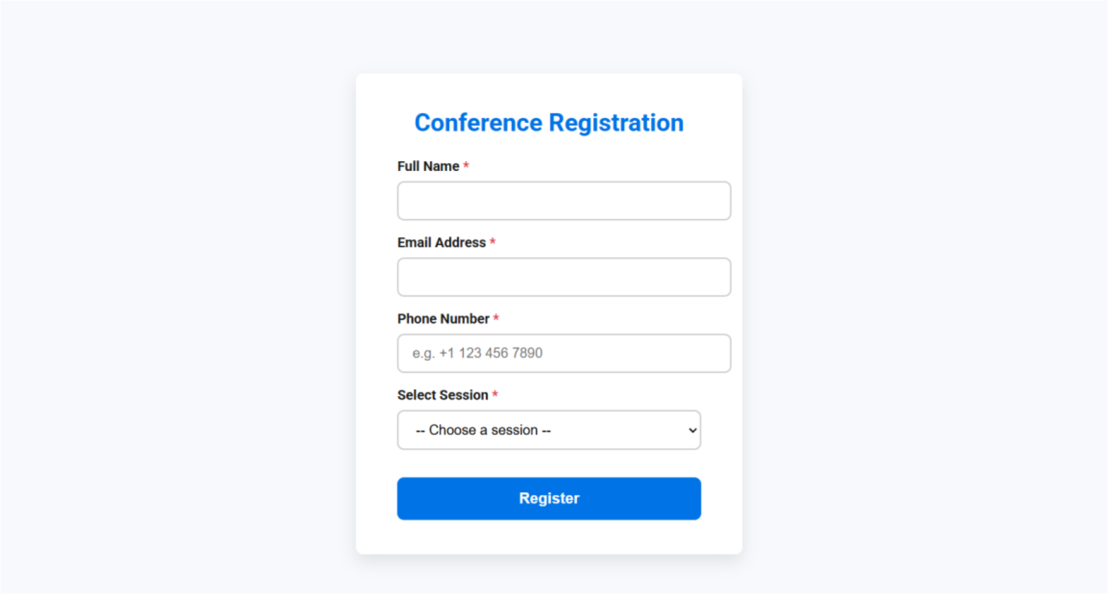
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>Conference Registration</title>
  <style>
    @import url('https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap');
    :root {
      --primary-color: #0073e6;
      --secondary-color: #005bb5;
      --error-color: #e63946;
      --bg-color: #f7f9fc;
      --text-color: #1a1a1a;
      --font-family: 'Roboto', sans-serif;
      --border-radius: 8px;
      --transition: 0.3s ease;
    }

    body {
```

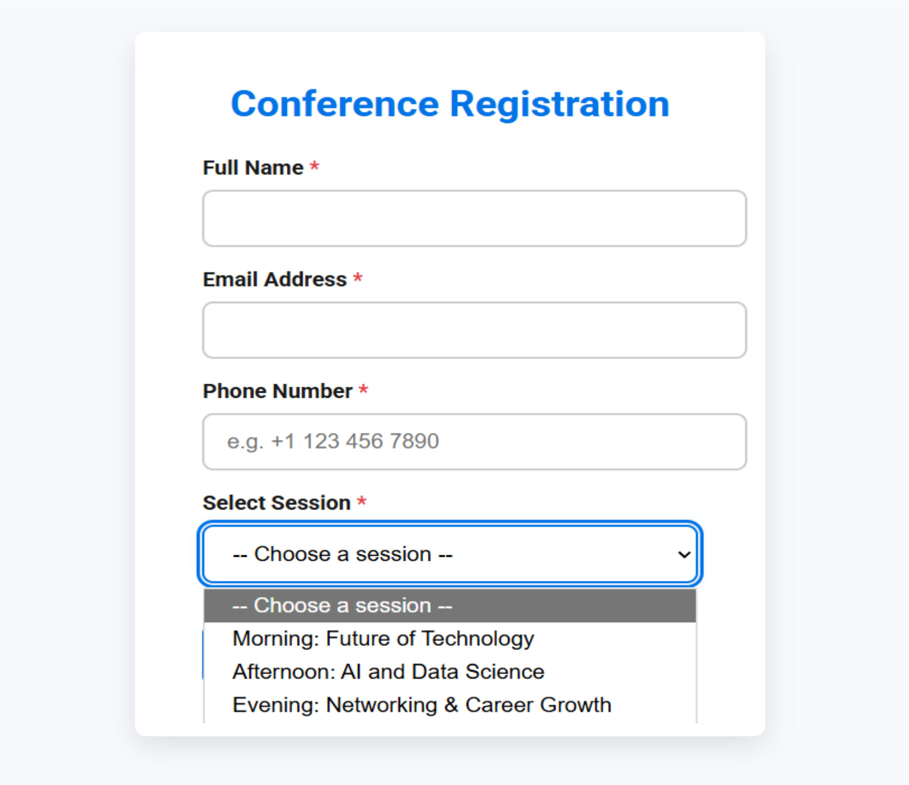
```
  font-family: var(--font-family);
  background-color: var(--bg-color);
  color: var(--text-color);
  margin: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh;
  padding: 20px;
}
.registration-form {
  background: #fff;
  padding: 2.5rem 3rem;
  border-radius: var(--border-radius);
  box-shadow: 0 8px 20px rgba(0,0,0,0.1);
  width: 100%;
  max-width: 450px;
  box-sizing: border-box;
}
.registration-form h1 {
  margin-top: 0;
  font-weight: 700;
  font-size: 1.8rem;
  margin-bottom: 1.5rem;
  text-align: center;
  color: var(--primary-color);
}
label {
  display: block;
  font-weight: 600;
  margin-bottom: 0.5rem;
  margin-top: 1rem;
}
input[type="text"],
input[type="email"],
input[type="tel"],
select {
  width: 100%;
  padding: 0.75rem 1rem;
  font-size: 1rem;
  border: 2px solid #ccc;
  border-radius: var(--border-radius);
  transition: border-color var(--transition);
}
input[type="text"]:focus,
input[type="email"]:focus,
```

```css
input[type="tel"]:focus,
select:focus {
  outline: none;
  border-color: var(--primary-color);
  box-shadow: 0 0 8px rgba(0, 115, 230, 0.25);
}
.error-message {
  color: var(--error-color);
  font-size: 0.85rem;
  margin-top: 0.25rem;
  display: none;
}
button {
  margin-top: 2rem;
  width: 100%;
  background-color: var(--primary-color);
  border: none;
  color: white;
  padding: 0.9rem;
  font-size: 1.1rem;
  font-weight: 700;
  border-radius: var(--border-radius);
  cursor: pointer;
```

```
      transition: background-color var(--transition);
    }
    button:hover {
      background-color: var(--secondary-color);
    }
    /* Accessibility focus styles */
    input:focus-visible,
    select:focus-visible,
    button:focus-visible {
      outline: 3px solid var(--primary-color);
      outline-offset: 2px;
    }
  </style>
</head>
<body>

  <form class="registration-form" id="regForm" aria-labelledby="formTitle" novalidate>
    <h1 id="formTitle">Conference Registration</h1>
    <label for="name">Full Name <span aria-hidden="true" style="color: var(--error-color);">*</span></label>
    <input type="text" id="name" name="name" aria-required="true" aria-describedby="nameError" required minlength="3" />
    <div class="error-message" id="nameError">Please enter at least 3 characters.</div>

    <label for="email">Email Address <span aria-hidden="true" style="color: var(--error-color);">*</span></label>

    <input type="email" id="email" name="email" aria-required="true" aria-describedby="emailError" required />

    <div class="error-message" id="emailError">Please enter a valid email.</div>

    <label for="phone">Phone Number <span aria-hidden="true" style="color: var(--error-color);">*</span></label>

    <input type="tel" id="phone" name="phone" aria-required="true" aria-describedby="phoneError"

      placeholder="e.g. +1 123 456 7890" required pattern="^\+?\d{1,4}[\s.-]?\(?\d+\)?([\s.-]?\d+)*$" />

    <div class="error-message" id="phoneError">Please enter a valid phone number.</div>

    <label for="session">Select Session <span aria-hidden="true" style="color: var(--error-color);">*</span></label>

    <select id="session" name="session" aria-required="true" aria-describedby="sessionError" required>

      <option value="">-- Choose a session --</option>

      <option value="morning">Morning: Future of Technology</option>

      <option value="afternoon">Afternoon: AI and Data Science</option>
      <option value="evening">Evening: Networking & Career
Growth</option>
    </select>
    <div class="error-message" id="sessionError">Please select a
session.</div>
    <button type="submit" aria-label="Submit registration
form">Register</button>
  </form>
  <script>
document.getElementById('regForm').addEventListener('submit'
, function(event) {
      event.preventDefault();
      const errors = this.querySelectorAll('.error-message');
      errors.forEach(error => error.style.display = 'none');
      let valid = true;
      const nameInput = this.name;
      if (!nameInput.value || nameInput.value.trim().length < 3) {
        document.getElementById('nameError').style.display =
'block';
        valid = false;
      }
      const emailInput = this.email;
      const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
      if (!emailInput.value || !emailPattern.test(emailInput.value)) {
        document.getElementById('emailError').style.display = 'block';
        valid = false;
      }
      const phoneInput = this.phone;
      const phonePattern = /^\+?\d{1,4}[\s.-]?\(?\d+\)?([\s.-]?\d+)*$/;
      if (!phoneInput.value || !phonePattern.test(phoneInput.value)) {
        document.getElementById('phoneError').style.display = 'block';
        valid = false;
      }
      const sessionInput = this.session;
      if (!sessionInput.value) {
        document.getElementById('sessionError').style.display = 'block';
        valid = false;
      }
      if (valid) {
        alert(`Thank you, ${nameInput.value}, for registering for the ${sessionInput.options[sessionInput.selectedIndex].text} session!`);
      this.reset();
     }
    });
   </script>
</body>
</html>
```

Output:





Conference Registration

Full Name *

Email Address *

Phone Number *

e.g. +1 123 456 7890

Select Session *

-- Choose a session --

-- Choose a session --
Morning: Future of Technology
Afternoon: AI and Data Science
Evening: Networking & Career Growth

Task Description #4 (Data – Fetch API & Render List with Loading/Error States)

• Task: Fetch JSON from an API and render items to the DOM with loading and error UI.

• Instructions:

o Ask AI to write fetch() logic, create DOM nodes safely, and add skeleton/loading text.

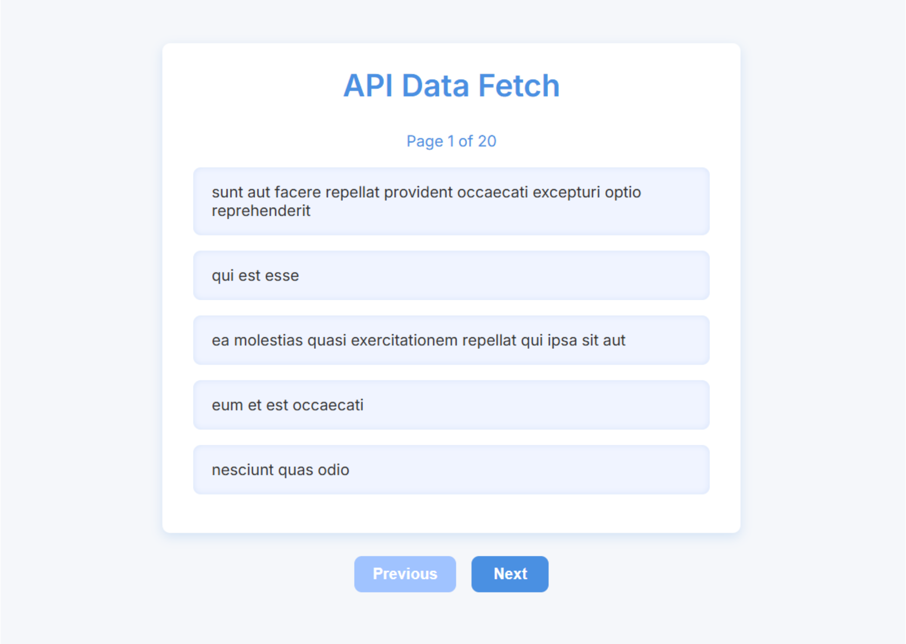
Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <title>API Data Fetch with Pagination</title>
  <style>
    @import url('https://fonts.googleapis.com/css2?family=Inter:wght@400;600&display=swap');
    :root {
      --primary-color: #4a90e2;
      --error-color: #e74c3c;
      --bg-color: #f5f7fa;
      --text-color: #333;
      --font-family: 'Inter', sans-serif;
      --border-radius: 8px;
      --shadow: 0 4px 12px rgba(74, 144, 226, 0.2);
    }
    body {
      margin: 0;
      font-family: var(--font-family);
      background-color: var(--bg-color);
      color: var(--text-color);
      display: flex;
      justify-content: center;
      padding: 2rem;
      min-height: 100vh;
      box-sizing: border-box;
      flex-direction: column;
      align-items: center;
    }
    .container {
      max-width: 600px;
      width: 100%;
      background: white;
      border-radius: var(--border-radius);
      padding: 1.5rem 2rem;
      box-shadow: var(--shadow);
      box-sizing: border-box;
      margin-bottom: 1.5rem;
    }
    h1 {
      margin-top: 0;
      color: var(--primary-color);
      font-weight: 600;
      text-align: center;
      margin-bottom: 1rem;
    }
    #statusMessage {
      text-align: center;
      font-size: 1rem;
      padding: 0.8rem 0;
      color: var(--primary-color);
      min-height: 1.5rem;
    }

    #statusMessage.error {
      color: var(--error-color);
    }
    ul.data-list {
      list-style: none;
      padding: 0;
      margin: 0;
    }
    ul.data-list li {
      background-color: #f0f4ff;
      margin-bottom: 1rem;
      border-radius: var(--border-radius);
      padding: 1rem 1.2rem;
      box-shadow: inset 0 0 6px rgba(74, 144, 226, 0.15);
      font-weight: 500;
      font-size: 1rem;
    }
```

```
  .skeleton {
    background: linear-gradient(90deg, #e0e6ff 25%, #c0ccff 37%, #e0e6ff 63%);
    animation: loading 1.4s infinite ease-in-out;
    border-radius: var(--border-radius);
    height: 1.2rem;
    margin-bottom: 1rem;
    width: 100%;
    max-width: 450px;
  }
  @keyframes loading {
    0% { background-position: 200% 0; }
    100% { background-position: -200% 0; }
  }
  .pagination {
    display: flex;
    gap: 1rem;
    justify-content: center;
  }
  .pagination button {
    background-color: var(--primary-color);
    border: none;
```

```
      color: white;
      border-radius: var(--border-radius);
      padding: 0.6rem 1.2rem;
      font-size: 1rem;
      font-weight: 600;
      cursor: pointer;
      transition: background-color 0.3s ease;
      min-width: 80px;
    }
    .pagination button:disabled {
      background-color: #a0c3ff;
      cursor: not-allowed;
    }
    .pagination button:hover:not(:disabled) {
      background-color: #3a6bcc;
    }
  </style>
</head>
<body>
  <div class="container" role="region" aria-live="polite" aria-busy="false">
    <h1>API Data Fetch</h1>
    <div id="statusMessage" aria-live="assertive" aria-
atomic="true"></div>
    <ul class="data-list" id="dataList" aria-label="List of
items"></ul>
  </div>
  <div class="pagination" role="navigation" aria-label="Pagination
navigation">
    <button id="prevBtn" aria-label="Previous page"
disabled>Previous</button>
    <button id="nextBtn" aria-label="Next page">Next</button>
  </div>
  <script>
    const API_URL = 'https://jsonplaceholder.typicode.com/posts';
    const dataList = document.getElementById('dataList');
    const statusMessage =
document.getElementById('statusMessage');
    const container = document.querySelector('.container');
    const prevBtn = document.getElementById('prevBtn');
    const nextBtn = document.getElementById('nextBtn');
    const ITEMS_PER_PAGE = 5;
    let currentPage = 1;
    let totalItems = 0;
    function showSkeletons(count = ITEMS_PER_PAGE) {
      dataList.innerHTML = '';
  for (let i = 0; i < count; i++) {
    const skeleton = document.createElement('li');
    skeleton.className = 'skeleton';
    dataList.appendChild(skeleton);
  }
}
function clearUI() {
  dataList.innerHTML = '';
  statusMessage.textContent = '';
  statusMessage.classList.remove('error');
}
function renderItems(items) {
  clearUI();
  items.forEach(item => {
    const li = document.createElement('li');
    li.textContent = item.title;
    dataList.appendChild(li);
  });
}
function showError(message) {
  clearUI();
  statusMessage.textContent = message;
  statusMessage.classList.add('error');
  }

  async function fetchData(page) {
    container.setAttribute('aria-busy', 'true');
    statusMessage.classList.remove('error');
    statusMessage.textContent = 'Loading data...';
    showSkeletons();
    try {
      const response = await fetch(`${API_URL}?_limit=${ITEMS_PER_PAGE}&_page=${page}`);
      if (!response.ok) {
        throw new Error(`Error loading data: ${response.status} ${response.statusText}`);
      }
      const data = await response.json();
      totalItems = parseInt(response.headers.get('X-Total-Count')) || 0;
      renderItems(data);
      statusMessage.textContent = `Page ${page} of ${Math.ceil(totalItems / ITEMS_PER_PAGE)}`;
      prevBtn.disabled = page === 1;
      nextBtn.disabled = page >= Math.ceil(totalItems / ITEMS_PER_PAGE);
      } catch (error) {
        showError(error.message);
      } finally {
        container.setAttribute('aria-busy', 'false');
      }
    }
    prevBtn.addEventListener('click', () => {
      if (currentPage > 1) {
        currentPage--;
        fetchData(currentPage);
      }
    });
    nextBtn.addEventListener('click', () => {
      if (currentPage < Math.ceil(totalItems / ITEMS_PER_PAGE)) {
        currentPage++;
        fetchData(currentPage);
      }
    });
    fetchData(currentPage);
  </script>
</body>
</html>
```

Output:



API Data Fetch

Page 1 of 20

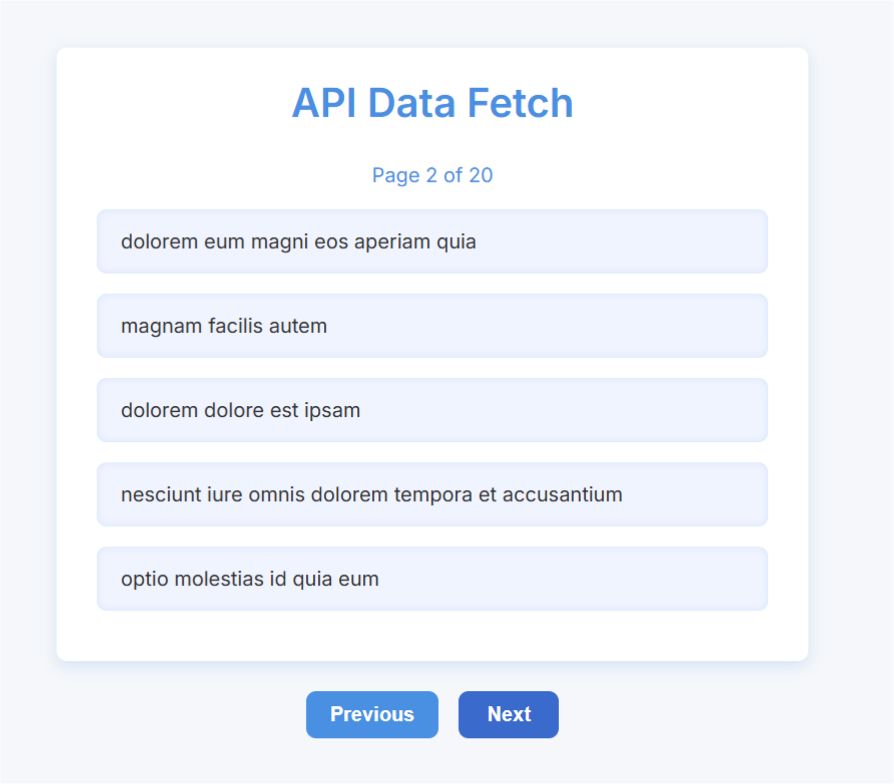
sunt aut facere repellat provident occaecati excepturi optio reprehenderit

qui est esse

ea molestias quasi exercitationem repellat qui ipsa sit aut

eum et est occaecati

nesciunt quas odio



API Data Fetch

Page 2 of 20

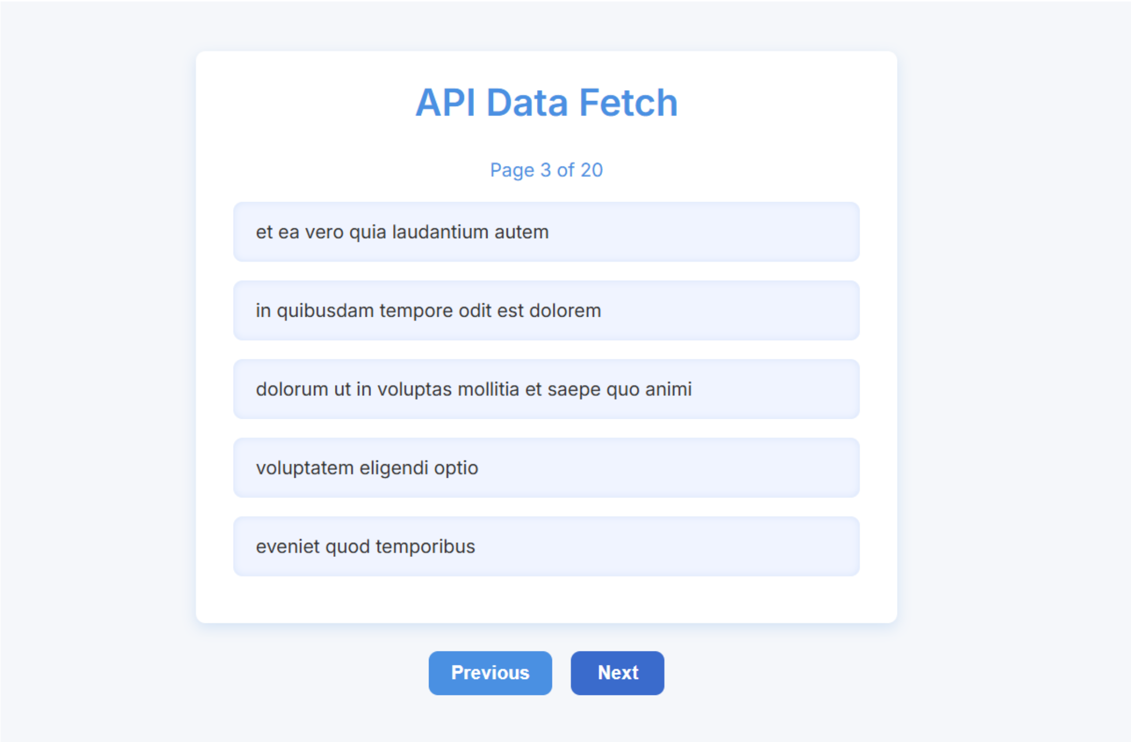
dolorem eum magni eos aperiam quia

magnam facilis autem

dolorem dolore est ipsam

nesciunt iure omnis dolorem tempora et accusantium

optio molestias id quia eum



API Data Fetch

Page 3 of 20

et ea vero quia laudantium autem

in quibusdam tempore odit est dolorem

dolorum ut in voluptas mollitia et saepe quo animi

voluptatem eligendi optio

eveniet quod temporibus