EXPERIMENT 3.1

AIM: Product Card Component Using Props

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Horizontal Product Card Component</title>
   <style>
      body {
         font-family: Arial, sans-serif;
         margin: 20px;
         background-color: #f0f2f5;
         display: flex;
         flex-wrap: wrap;
         gap: 20px;
         justify-content: center;
      }

      .product-card {
         background-color: #fff;
         border-radius: 8px;
         box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);
         overflow: hidden;
         width: 600px;
         display: flex; /* This is the key for the horizontal layout */
         transition: transform 0.2s;
      }

      .product-card:hover {
         transform: translateY(-5px);
      }

      .product-card img {
         width: 200px; /* Fixed width for the image */
         height: 200px; /* Fixed height to match */
         object-fit: cover;
         border-right: 1px solid #eee;
      }

      .product-card-content {
         padding: 20px;
         display: flex;
         flex-direction: column;
         justify-content: space-between;
         flex-grow: 1; /* Allows content to fill remaining space */
```

```css
        }

        .product-card h3 {
            margin-top: 0;
            margin-bottom: 10px;
            color: #333;
            font-size: 1.4em;
        }

        .product-card p.description {
            font-size: 0.9em;
            color: #666;
            line-height: 1.5;
            flex-grow: 1;
        }

        .product-card p.price {
            font-size: 1.2em;
            color: #007bff;
            font-weight: bold;
            margin-top: 15px;
            margin-bottom: 15px;
        }

        .product-card button {
            background-color: #007bff;
            color: #fff;
            border: none;
            padding: 10px 20px;
            border-radius: 5px;
            cursor: pointer;
            font-size: 1em;
            transition: background-color 0.2s;
            align-self: flex-start; /* Aligns the button to the left */
        }

        .product-card button:hover {
            background-color: #0056b3;
        }
    </style>
</head>
<body>
    <div id="app"></div>

    <script>
        // JavaScript for the ProductCard Component

        /**
         * Creates an HTML product card element in a horizontal layout.
         * @param {object} props - The properties for the product card.
```

```javascript
 * @param {string} props.imageUrl - The URL of the product image.
 * @param {string} props.title - The title of the product.
 * @param {string} props.description - A short description of the product.
 * @param {number} props.price - The price of the product.
 * @returns {HTMLElement} The created product card div element.
 */
function ProductCard(props) {
  const card = document.createElement('div');
  card.classList.add('product-card');

  const img = document.createElement('img');
  img.src = props.imageUrl;
  img.alt = props.title;
  card.appendChild(img);

  const content = document.createElement('div');
  content.classList.add('product-card-content');

  const title = document.createElement('h3');
  title.textContent = props.title;
  content.appendChild(title);

  const description = document.createElement('p');
  description.classList.add('description');
  description.textContent = props.description;
  content.appendChild(description);

  const price = document.createElement('p');
  price.classList.add('price');
  price.textContent = `$${props.price.toFixed(2)}`;
  content.appendChild(price);

  const button = document.createElement('button');
  button.textContent = 'Add to Cart';
  button.onclick = () => alert(`Added "${props.title}" to cart!`);
  content.appendChild(button);

  card.appendChild(content);

  return card;
}

// Get the app container
const app = document.getElementById('app');

// Example Usage: Create and append product cards using the ProductCard function
const product1 = ProductCard({
  imageUrl: 'https://via.placeholder.com/200x200?text=Laptop',
  title: 'Ultra-Slim Laptop',
  description: 'A powerful and lightweight laptop for professionals and students.
```

```
Features a high-resolution display and long-lasting battery life.',
        price: 899.99
    });
    app.appendChild(product1);

    const product2 = ProductCard({
        imageUrl: 'https://via.placeholder.com/200x200?text=Watch',
        title: 'Classic Analog Watch',
        description: 'Timeless design meets modern durability. This watch is a perfect
accessory for any occasion, with a scratch-resistant face and leather band.',
        price: 150.00
    });
    app.appendChild(product2);

    const product3 = ProductCard({
        imageUrl: 'https://via.placeholder.com/200x200?text=Camera',
        title: 'Professional DSLR Camera',
        description: 'Capture stunning photos and videos with this high-end camera.
Includes multiple shooting modes and a fast autofocus system.',
        price: 749.99
    });
    app.appendChild(product3);

    </script>
</body>
</html>
```

Ultra-Slim Laptop

A powerful and lightweight laptop for professionals and students. Features a high-resolution display and long-lasting battery life.
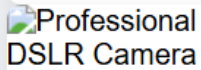
$899.99

Add to Cart

Classic Analog Watch

Timeless design meets modern durability. This watch is a perfect accessory for any occasion, with a scratch-resistant face and leather band.

$150.00

Add to Cart

Professional DSLR Camera

Capture stunning photos and videos with this high-end camera. Includes multiple shooting modes and a fast autofocus system.

$749.99

Add to Cart