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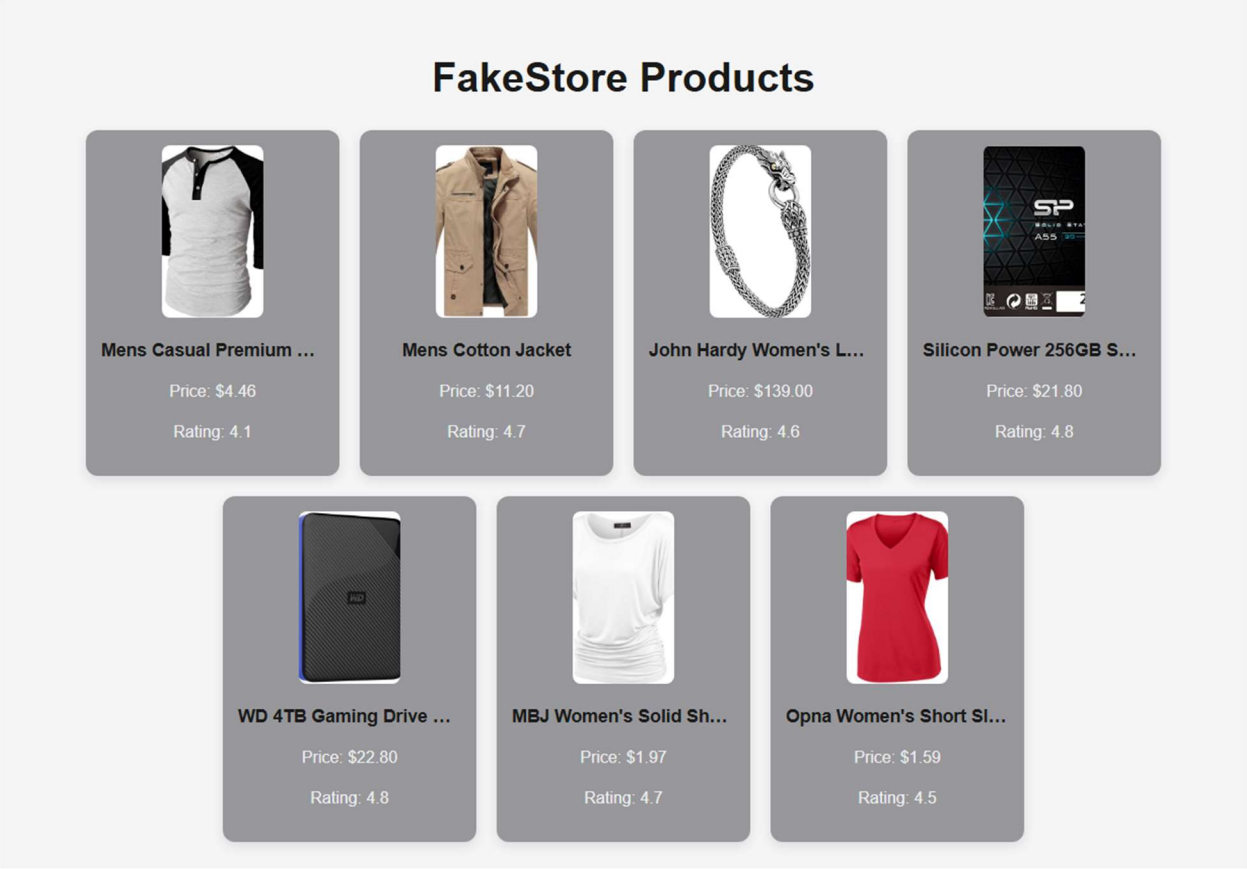
Divisi : SoftDev FrontEnd



1. **Fetch product data from FakeStore API using useEffect and useState**

```
const [products, setProducts] = useState([]);

useEffect(() => {
  fetch("https://fakestoreapi.com/products")
    .then((response) => response.json())
    .then((data) => setProducts(data));
}, []);
```

2. **Reduce all product prices to 20% of original price using reduce method**

```
const processedProducts = products
  .map((product) => ({
    ...product,
    price: product.price * 0.2,
  }))
```

3. **Filter products to show only those with rating > 4.0 using filter method**

```
.filter((product) => product.rating.rate > 4.0);
```

4. **Display data using map method to render HTML elements**

```
<div className="product-list">
  {products.map((product) => (
    <ProductCard key={product.id} product={product} />
  ))}
</div>
```

5. **Create custom styling for the application**

```
.app {
  max-width: 1200px;
  margin: 0 auto;
  padding: 30px 20px;
  font-family: 'Inter', Arial, sans-serif;
  text-align: center;
  background: #f5f5f5;
}

.app h1 {
  font-size: 2.5rem;
  color: #1a1a1a;
  margin-bottom: 30px;
  font-weight: 700;
}

.product-list {
  display: flex;
  flex-wrap: wrap;
  gap: 20px;
  justify-content: center;
  margin-top: 20px;
}

.product-card {
  background: #98989b;
  border: none;
  border-radius: 12px;
  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);
  padding: 15px;
  width: 220px;
  transition: transform 0.3s ease, box-shadow 0.3s ease;
  position: relative;
  overflow: hidden;
}

.product-card:hover {
  transform: translateY(-8px);
  box-shadow: 0 8px 20px rgba(0, 0, 0, 0.15);
}

.product-card img {
  max-width: 100%;
  height: 170px;
  object-fit: cover;
  border-radius: 8px;
  margin-bottom: 12px;
}

.product-card-content {
  text-align: left;
}

.product-card h3 {
  font-size: 1.1rem;
  color: #1a1a1a;
  margin: 0 0 8px;
  font-weight: 600;
  white-space: nowrap;
  overflow: hidden;
  text-overflow: ellipsis;
}
```

6. **Build at least 2 reusable components for data display**

```jsx
import React from 'react';
function ProductCard({ product }) {
  return (
    <div className="product-card">
    <img src={product.image} alt={product.title} width="100" />
      <h3>{product.title}</h3>
      <p>Price: ${product.price.toFixed(2)}</p>
      <p>Rating: {product.rating.rate}</p>
    </div>
  );
}

export default ProductCard;
```

```jsx
import React from 'react';
import ProductCard from './ProductCard';
function ProductList({ products }) {
  return (
    <div className="product-list">
      {products.map((product) => (
        <ProductCard key={product.id} product={product} />
      ))}
    </div>
  );
}

export default ProductList;
```

7. **Explain at least one process in data display/state management**

State products didefinisikan menggunakan useState([]) untuk menyimpan data produk dari API, yang kemudian diperbarui setelah pengambilan data selesai. Ini memungkinkan pengelolaan data secara dinamis dan efisien, memastikan komponen App hanya merender ulang saat state berubah.

```jsx
function App() {
  const [products, setProducts] = useState([]);

  useEffect(() => {
    fetch("https://fakestoreapi.com/products")
      .then((response) => response.json())
      .then((data) => setProducts(data));
  }, []);
```

Github : https://github.com/FrdMnhdl/Farid-Munadhil_EISD_Software-Development.git