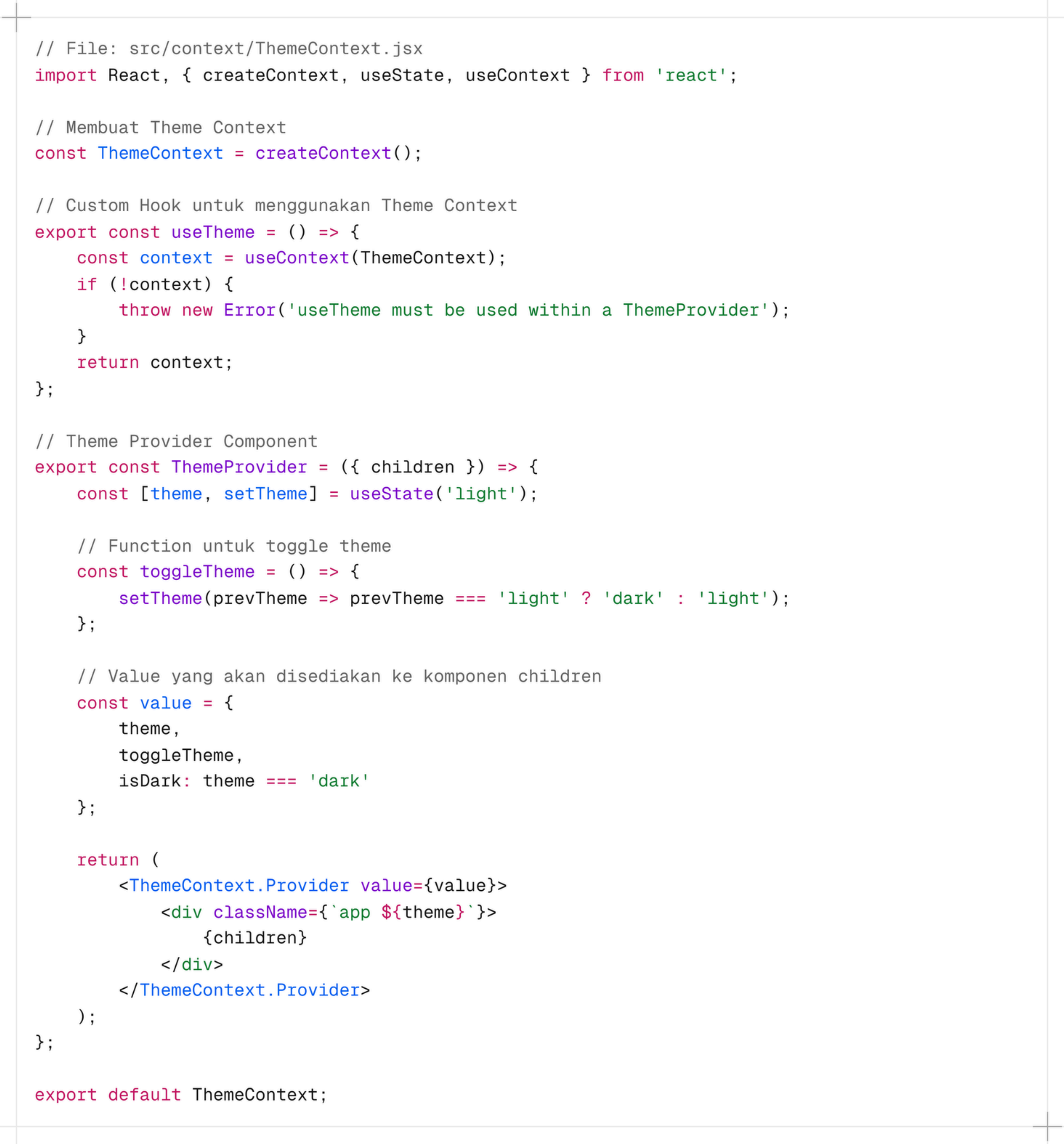
Praktik Pertemuan 9

Langkah 1 : Buat Project

```
npm create vite@latest praktik-9 -- --template react

cd praktik-9

npm install

npm run dev
```

Langkah 2 : ThemeContext.jsx

File : src/context/ThemeContext.jsx



```jsx
// File: src/context/ThemeContext.jsx
import React, { createContext, useState, useContext } from 'react';

// Membuat Theme Context
const ThemeContext = createContext();

// Custom Hook untuk menggunakan Theme Context
export const useTheme = () => {
    const context = useContext(ThemeContext);
    if (!context) {
        throw new Error('useTheme must be used within a ThemeProvider');
    }
    return context;
};

// Theme Provider Component
export const ThemeProvider = ({ children }) => {
    const [theme, setTheme] = useState('light');

    // Function untuk toggle theme
    const toggleTheme = () => {
        setTheme(prevTheme => prevTheme === 'light' ? 'dark' : 'light');
    };

    // Value yang akan disediakan ke komponen children
    const value = {
        theme,
        toggleTheme,
        isDark: theme === 'dark'
    };

    return (
        <ThemeContext.Provider value={value}>
            <div className={`app ${theme}`}>
                {children}
            </div>
        </ThemeContext.Provider>
    );
};

export default ThemeContext;
```

Langkah 3 : src/context/UserContext.jsx

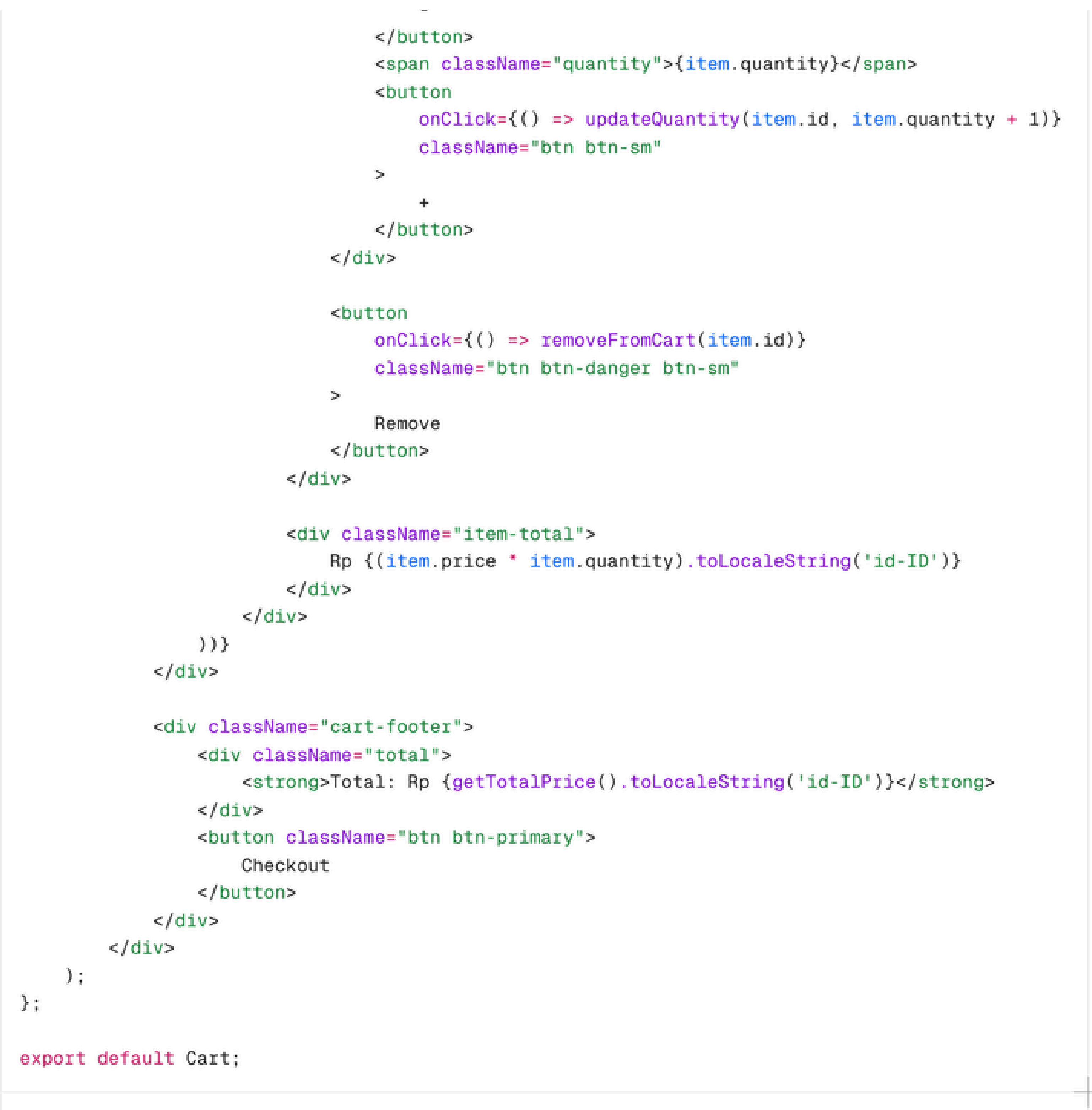
```
// File: src/context/UserContext.jsx
import React, { createContext, useState, useContext } from 'react';

// Membuat User Context
const UserContext = createContext();

// Custom Hook untuk menggunakan User Context
export const useUser = () => {
    const context = useContext(UserContext);
    if (!context) {
        throw new Error('useUser must be used within a UserProvider');
    }
    return context;
};

// User Provider Component
export const UserProvider = ({ children }) => {
    const [user, setUser] = useState(null);
    const [isLoading, setIsLoading] = useState(false);

    // Login function
    const login = async (email, password) => {
        setIsLoading(true);
        // Simulasi API call
        setTimeout(() => {
            setUser({
                id: 1,
                name: 'John Doe',
                email: email,
                avatar: '\u{1F464}'
            });
            setIsLoading(false);
        }, 1000);
    };

    // Logout function
    const logout = () => {
        setUser(null);
    };

    // Update user profile
    const updateProfile = (updatedData) => {
        setUser(prev => ({ ...prev, ...updatedData }));
    };

    const value = {
        user,
        isLoading,
        login,
        logout,
        updateProfile,
        isAuthenticated: !!user
    };
    };

    return (
        <UserContext.Provider value={value}>
            {children}
        </UserContext.Provider>
    );
};

export default UserContext;
```

Langkah 4 : src/context/CartContext.jsx

```
// File: src/context/CartContext.jsx
import React, { createContext, useState, useContext } from 'react';

// Membuat Cart Context
const CartContext = createContext();

// Custom Hook untuk menggunakan Cart Context
export const useCart = () => {
    const context = useContext(CartContext);
    if (!context) {
        throw new Error('useCart must be used within a CartProvider');
    }
    return context;
};

// Cart Provider Component
export const CartProvider = ({ children }) => {
    const [cartItems, setCartItems] = useState([]);

    // Add item to cart
    const addToCart = (product) => {
        setCartItems(prevItems => {
            const existingItem = prevItems.find(item => item.id === product.id);

            if (existingItem) {
                return prevItems.map(item =>
                    item.id === product.id
                        ? { ...item, quantity: item.quantity + 1 }
                        : item
                );
            }

            return [...prevItems, { ...product, quantity: 1 }];
        });
    };

    // Remove item from cart
    const removeFromCart = (productId) => {
        setCartItems(prevItems => prevItems.filter(item => item.id !== productId));
    };

    // Update item quantity
    const updateQuantity = (productId, newQuantity) => {
        if (newQuantity <= 0) {
            removeFromCart(productId);
            return;
        }

        setCartItems(prevItems =>
            prevItems.map(item =>
                item.id === productId
                    ? { ...item, quantity: newQuantity }
                    : item
                    : item
            )
        );
    };

    // Clear cart
    const clearCart = () => {
        setCartItems([]);
    };

    // Calculate total items
    const getTotalItems = () => {
        return cartItems.reduce((total, item) => total + item.quantity, 0);
    };

    // Calculate total price
    const getTotalPrice = () => {
        return cartItems.reduce((total, item) => total + (item.price * item.quantity), 0);
    };

    const value = {
        cartItems,
        addToCart,
        removeFromCart,
        updateQuantity,
        clearCart,
        getTotalItems,
        getTotalPrice
    };

    return (
        <CartContext.Provider value={value}>
            {children}
        </CartContext.Provider>
    );
};

export default CartContext;
```

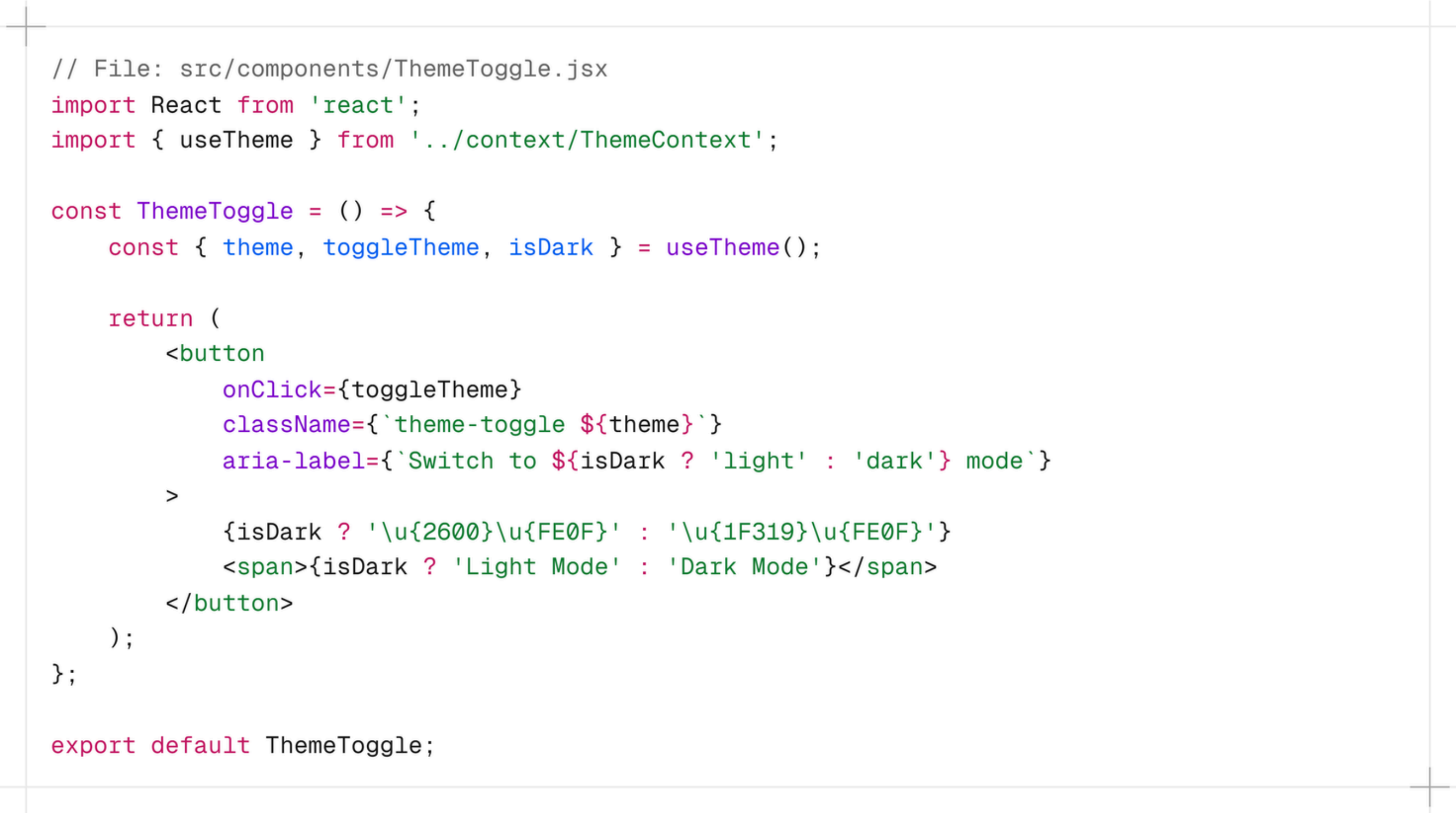
Langkah 5 : src/components/Cart.jsx

```
// File: src/components/Cart.jsx
import React from 'react';
import { useTheme } from '../context/ThemeContext';
import { useCart } from '../context/CartContext';
import { useUser } from '../context/UserContext';

const Cart = () => {
    const { theme } = useTheme();
    const { cartItems, removeFromCart, updateQuantity, clearCart, getTotalPrice } = useCart();
    const { isAuthenticated } = useUser();

    if (!isAuthenticated) {
        return (
            <div className={`cart ${theme}`}>
                <h2>Shopping Cart</h2>
                <p>Please login to view your cart</p>
            </div>
        );
    }

    if (cartItems.length === 0) {
        return (
            <div className={`cart ${theme}`}>
                <h2>Shopping Cart</h2>
                <p>Your cart is empty</p>
            </div>
        );
    }

    return (
        <div className={`cart ${theme}`}>
            <div className="cart-header">
                <h2>Shopping Cart ({cartItems.length} items)</h2>
                <button onClick={clearCart} className="btn btn-outline">
                    Clear Cart
                </button>
            </div>

            <div className="cart-items">
                {cartItems.map(item => (
                    <div key={item.id} className="cart-item">
                        <div className="item-info">
                            <h4>{item.name}</h4>
                            <p>Rp {item.price.toLocaleString('id-ID')}</p>
                        </div>

                        <div className="item-controls">
                            <div className="quantity-controls">
                                <button
                                    onClick={() => updateQuantity(item.id, item.quantity - 1)}
                                    className="btn btn-sm"
                                >
                                    -
```



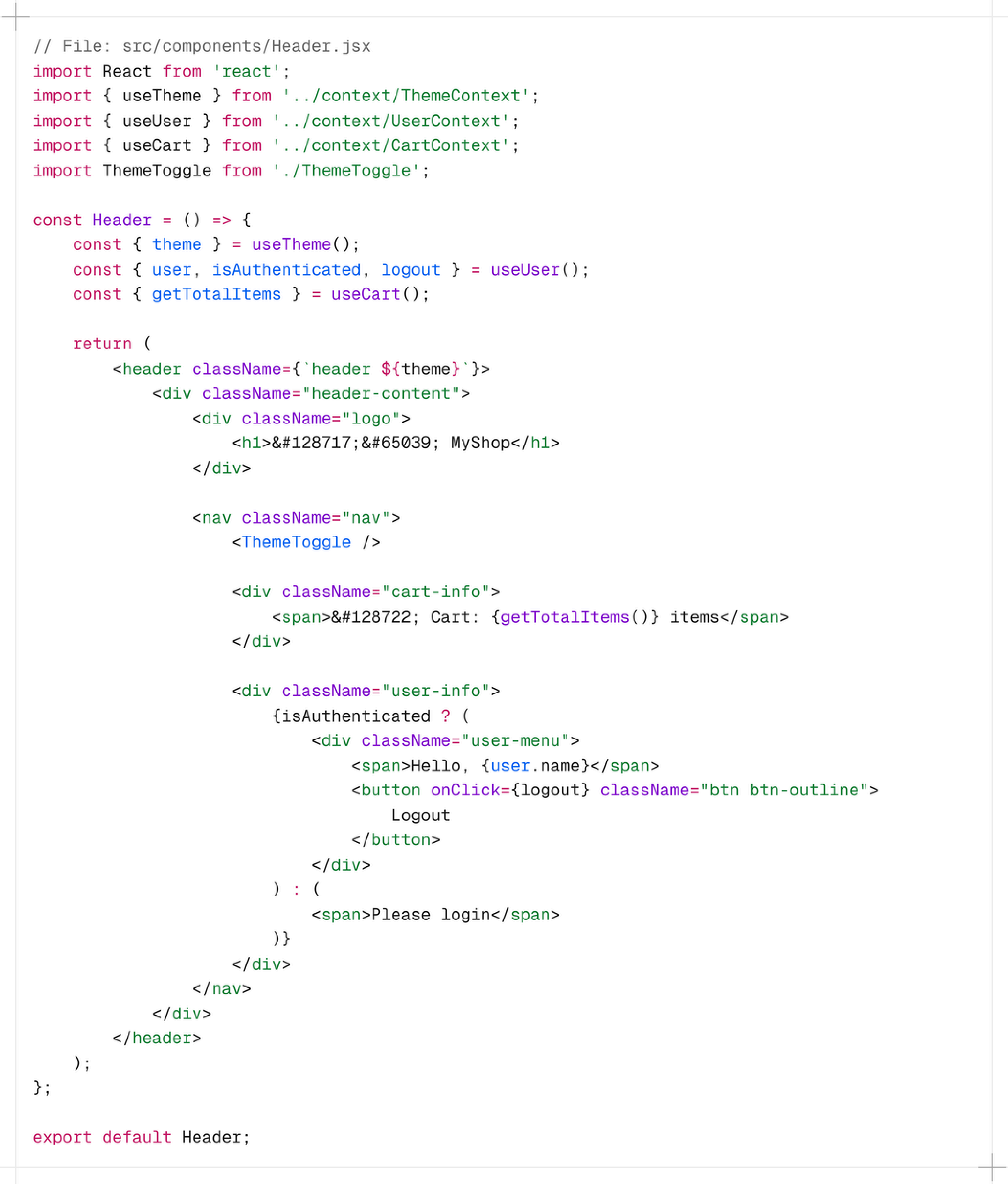
```
                                    -
                                </button>
                                <span className="quantity">{item.quantity}</span>
                                <button
                                    onClick={() => updateQuantity(item.id, item.quantity + 1)}
                                    className="btn btn-sm"
                                >
                                    +
                                </button>
                            </div>

                            <button
                                onClick={() => removeFromCart(item.id)}
                                className="btn btn-danger btn-sm"
                            >
                                Remove
                            </button>
                        </div>

                        <div className="item-total">
                            Rp {(item.price * item.quantity).toLocaleString('id-ID')}
                        </div>
                    </div>
                ))}
            </div>

            <div className="cart-footer">
                <div className="total">
                    <strong>Total: Rp {getTotalPrice().toLocaleString('id-ID')}</strong>
                </div>
                <button className="btn btn-primary">
                    Checkout
                </button>
            </div>
        </div>
    );
};

export default Cart;
```

Langkah 6 : src/components/ThemeToggle.jsx



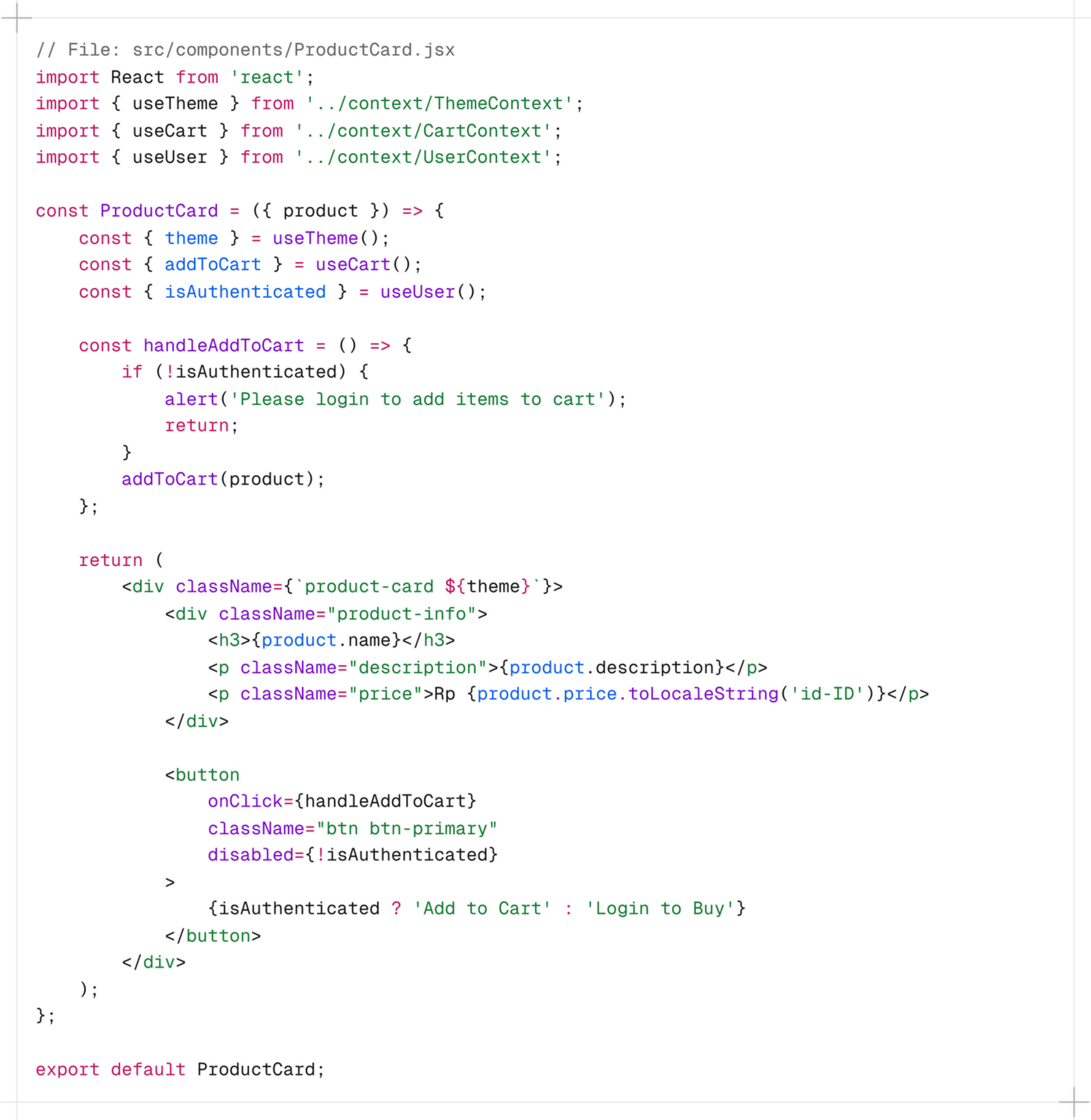
```jsx
// File: src/components/ThemeToggle.jsx
import React from 'react';
import { useTheme } from '../context/ThemeContext';

const ThemeToggle = () => {
    const { theme, toggleTheme, isDark } = useTheme();

    return (
        <button
            onClick={toggleTheme}
            className={`theme-toggle ${theme}`}
            aria-label={`Switch to ${isDark ? 'light' : 'dark'} mode`}
        >
            {isDark ? '\u{2600}\u{FE0F}' : '\u{1F319}\u{FE0F}'}
            <span>{isDark ? 'Light Mode' : 'Dark Mode'}</span>
        </button>
    );
};

export default ThemeToggle;
```

Langkah 7 : src/components/Header.jsx



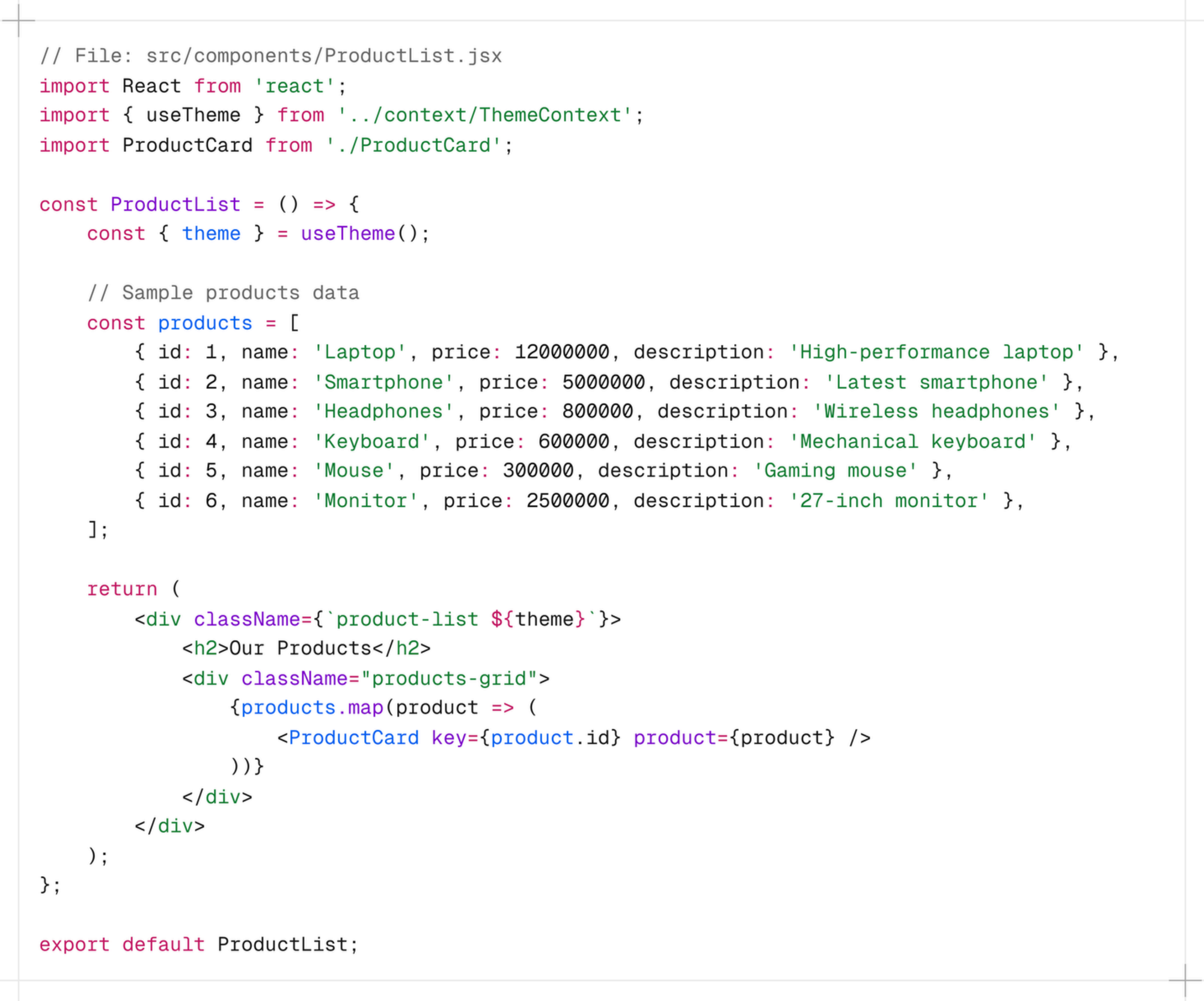
```jsx
// File: src/components/Header.jsx
import React from 'react';
import { useTheme } from '../context/ThemeContext';
import { useUser } from '../context/UserContext';
import { useCart } from '../context/CartContext';
import ThemeToggle from './ThemeToggle';

const Header = () => {
    const { theme } = useTheme();
    const { user, isAuthenticated, logout } = useUser();
    const { getTotalItems } = useCart();

    return (
        <header className={`header ${theme}`}>
            <div className="header-content">
                <div className="logo">
                    <h1>&#128717;&#65039; MyShop</h1>
                </div>

                <nav className="nav">
                    <ThemeToggle />

                    <div className="cart-info">
                        <span>&#128722; Cart: {getTotalItems()} items</span>
                    </div>

                    <div className="user-info">
                        {isAuthenticated ? (
                            <div className="user-menu">
                                <span>Hello, {user.name}</span>
                                <button onClick={logout} className="btn btn-outline">
                                    Logout
                                </button>
                            </div>
                        ) : (
                            <span>Please login</span>
                        )}
                    </div>
                </nav>
            </div>
        </header>
    );
};

export default Header;
```

Langkah 8 : src/components/ProductCard.jsx



```jsx
// File: src/components/ProductCard.jsx
import React from 'react';
import { useTheme } from '../context/ThemeContext';
import { useCart } from '../context/CartContext';
import { useUser } from '../context/UserContext';

const ProductCard = ({ product }) => {
    const { theme } = useTheme();
    const { addToCart } = useCart();
    const { isAuthenticated } = useUser();

    const handleAddToCart = () => {
        if (!isAuthenticated) {
            alert('Please login to add items to cart');
            return;
        }
        addToCart(product);
    };

    return (
        <div className={`product-card ${theme}`}>
            <div className="product-info">
                <h3>{product.name}</h3>
                <p className="description">{product.description}</p>
                <p className="price">Rp {product.price.toLocaleString('id-ID')}</p>
            </div>

            <button
                onClick={handleAddToCart}
                className="btn btn-primary"
                disabled={!isAuthenticated}
            >
                {isAuthenticated ? 'Add to Cart' : 'Login to Buy'}
            </button>
        </div>
    );
};

export default ProductCard;
```

Langkah 9 : src/components/ProductList.jsx

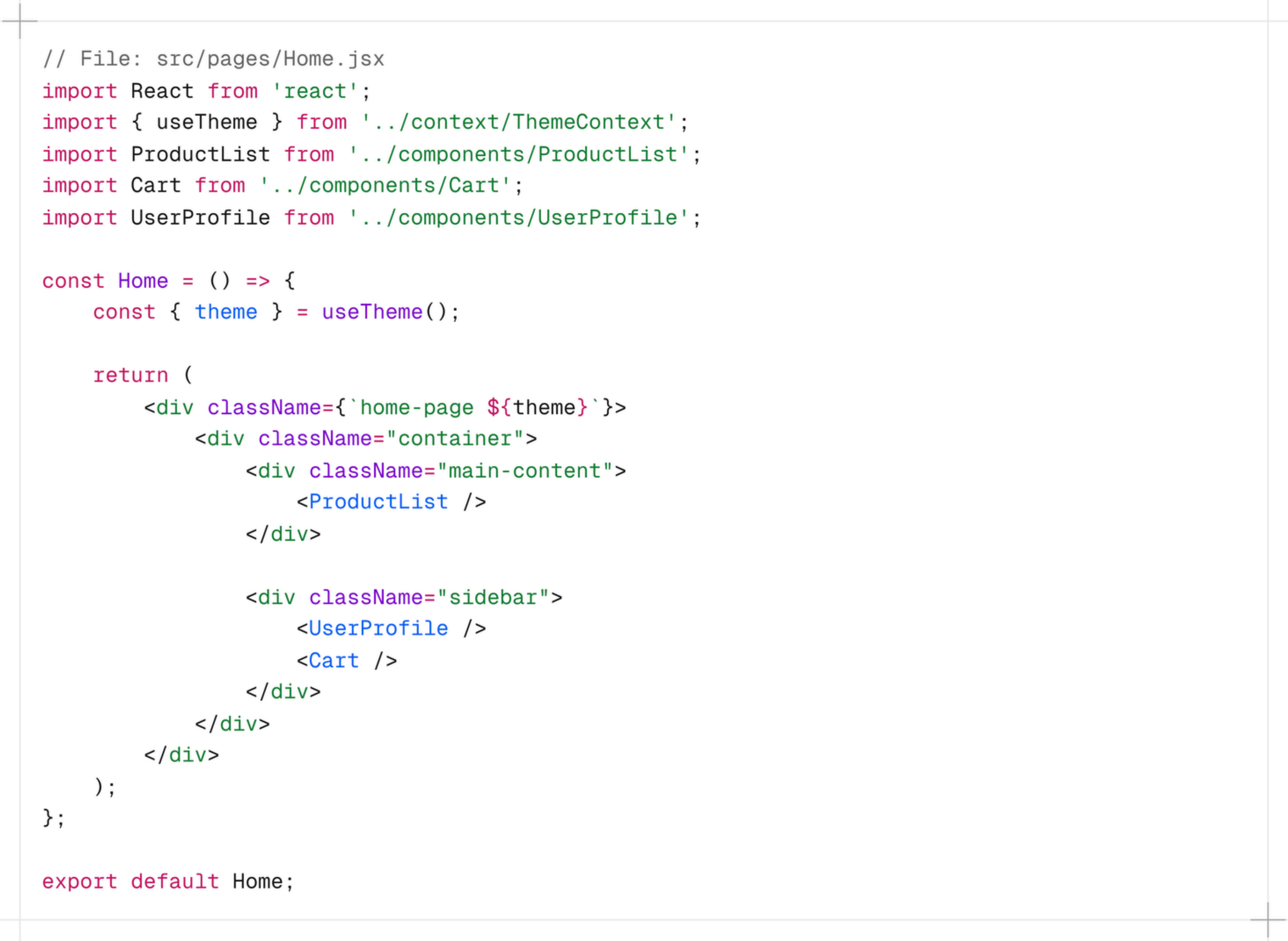


```jsx
// File: src/components/ProductList.jsx
import React from 'react';
import { useTheme } from '../context/ThemeContext';
import ProductCard from './ProductCard';

const ProductList = () => {
    const { theme } = useTheme();

    // Sample products data
    const products = [
        { id: 1, name: 'Laptop', price: 12000000, description: 'High-performance laptop' },
        { id: 2, name: 'Smartphone', price: 5000000, description: 'Latest smartphone' },
        { id: 3, name: 'Headphones', price: 800000, description: 'Wireless headphones' },
        { id: 4, name: 'Keyboard', price: 600000, description: 'Mechanical keyboard' },
        { id: 5, name: 'Mouse', price: 300000, description: 'Gaming mouse' },
        { id: 6, name: 'Monitor', price: 2500000, description: '27-inch monitor' },
    ];

    return (
        <div className={`product-list ${theme}`}>
            <h2>Our Products</h2>
            <div className="products-grid">
                {products.map(product => (
                    <ProductCard key={product.id} product={product} />
                ))}
            </div>
        </div>
    );
};

export default ProductList;
```

Langkah 10 : src/components/UserProfile.jsx

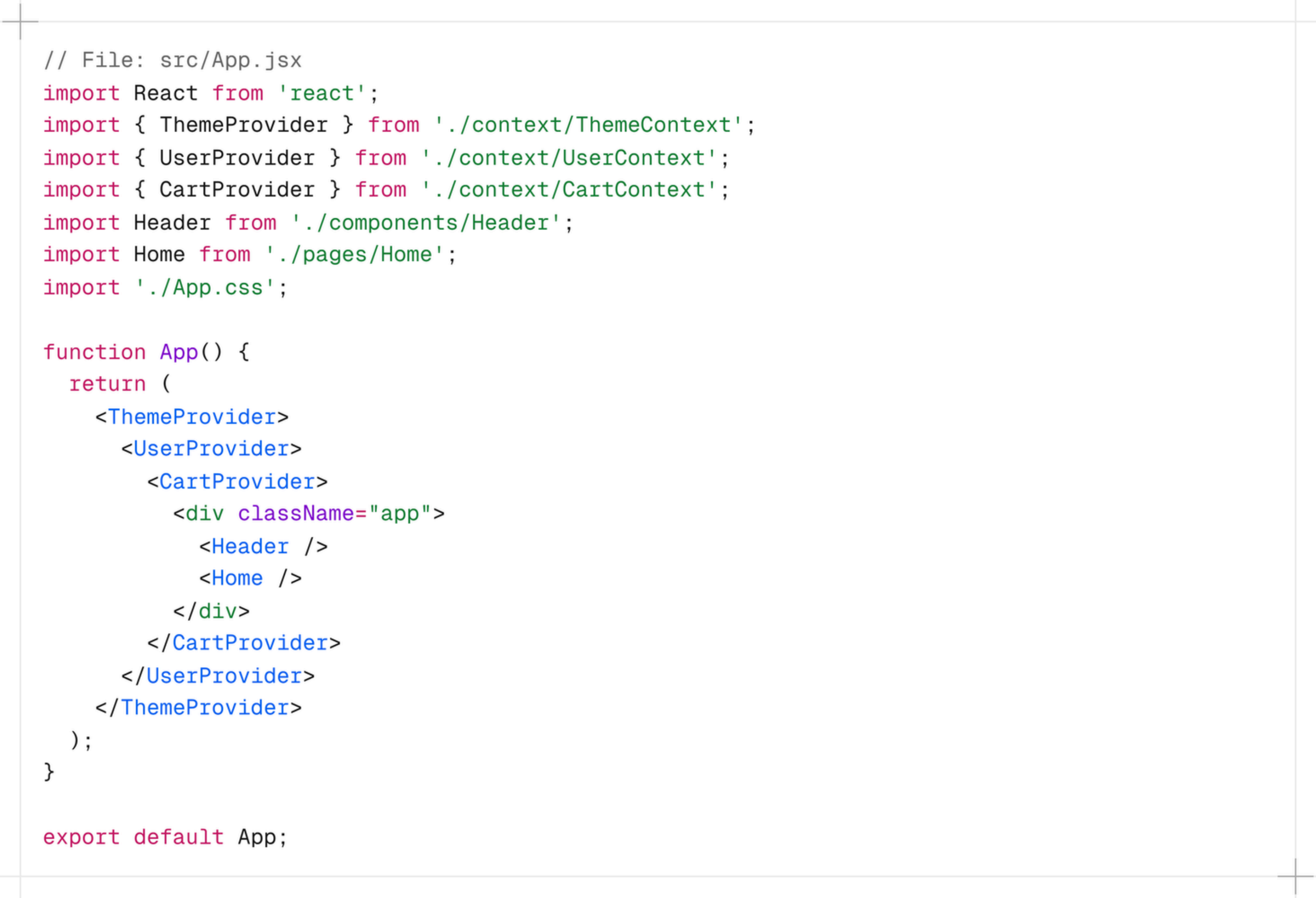
```
// File: src/components/UserProfile.jsx
import React, { useState } from 'react';
import { useTheme } from '../context/ThemeContext';
import { useUser } from '../context/UserContext';

const UserProfile = () => {
    const { theme } = useTheme();
    const { user, isAuthenticated, login, logout, updateProfile, isLoading } = useUser();
    const [email, setEmail] = useState('');
    const [password, setPassword] = useState('');
    const [editMode, setEditMode] = useState(false);
    const [name, setName] = useState(user?.name || '');

    const handleLogin = (e) => {
        e.preventDefault();
        login(email, password);
        setEmail('');
        setPassword('');
    };

    const handleUpdateProfile = (e) => {
        e.preventDefault();
        updateProfile({ name });
        setEditMode(false);
    };

    if (!isAuthenticated) {
        return (
            <div className={`user-profile ${theme}`}>
                <h2>Login</h2>
                <form onSubmit={handleLogin} className="login-form">
                    <div className="form-group">
                        <label>Email:</label>
                        <input type="email" value={email} onChange={(e) =>
setEmail(e.target.value)} required/>
                    </div>

                    <div className="form-group">
                        <label>Password:</label>
                        <input type="password" value={password} onChange={(e) =>
setPassword(e.target.value)} required/>
                    </div>

                    <button type="submit" disabled={isLoading} className="btn btn-primary">
                        {isLoading ? 'Logging in...' : 'Login'}
                    </button>
                </form>

                <div className="demo-credentials">
                    <p><strong>Demo:</strong> Use any email and password</p>
                </div>
            </div>
        );
    }

    return (
        <div className={`user-profile ${theme}`}>
            <h2>User Profile</h2>

            {!editMode ? (
                <div className="profile-info">
                    <div className="avatar">{user.avatar}</div>
                    <div className="details">
                        <p><strong>Name:</strong> {user.name}</p>
                        <p><strong>Email:</strong> {user.email}</p>
                    </div>
                    <button onClick={() => setEditMode(true)} className="btn btn-outline">
                        Edit Profile
                    </button>
                </div>
            ) : (
                <form onSubmit={handleUpdateProfile} className="edit-form">
                    <div className="form-group">
                        <label>Name:</label>
                        <input type="text" value={name} onChange={(e) =>
setName(e.target.value)} required />
                    </div>

                    <div className="form-actions">
                        <button type="submit" className="btn btn-primary">
                            Save
                        </button>
                        <button type="button" onClick={() => setEditMode(false)}
className="btn btn-secondary">
                            Cancel
                        </button>
                    </div>
                </form>
            )}
        </div>
    );
};

export default UserProfile;
```

Langkah 11 : src/pages/Home.jsx



```
// File: src/pages/Home.jsx
import React from 'react';
import { useTheme } from '../context/ThemeContext';
import ProductList from '../components/ProductList';
import Cart from '../components/Cart';
import UserProfile from '../components/UserProfile';

const Home = () => {
    const { theme } = useTheme();

    return (
        <div className={`home-page ${theme}`}>
            <div className="container">
                <div className="main-content">
                    <ProductList />
                </div>

                <div className="sidebar">
                    <UserProfile />
                    <Cart />
                </div>
            </div>
        </div>
    );
};

export default Home;
```

Langkah 12 : src/App.jsx



```
// File: src/App.jsx
import React from 'react';
import { ThemeProvider } from './context/ThemeContext';
import { UserProvider } from './context/UserContext';
import { CartProvider } from './context/CartContext';
import Header from './components/Header';
import Home from './pages/Home';
import './App.css';

function App() {
  return (
    <ThemeProvider>
      <UserProvider>
        <CartProvider>
          <div className="app">
            <Header />
            <Home />
          </div>
        </CartProvider>
      </UserProvider>
    </ThemeProvider>
  );
}

export default App;
```

Langkah 13 : App.css

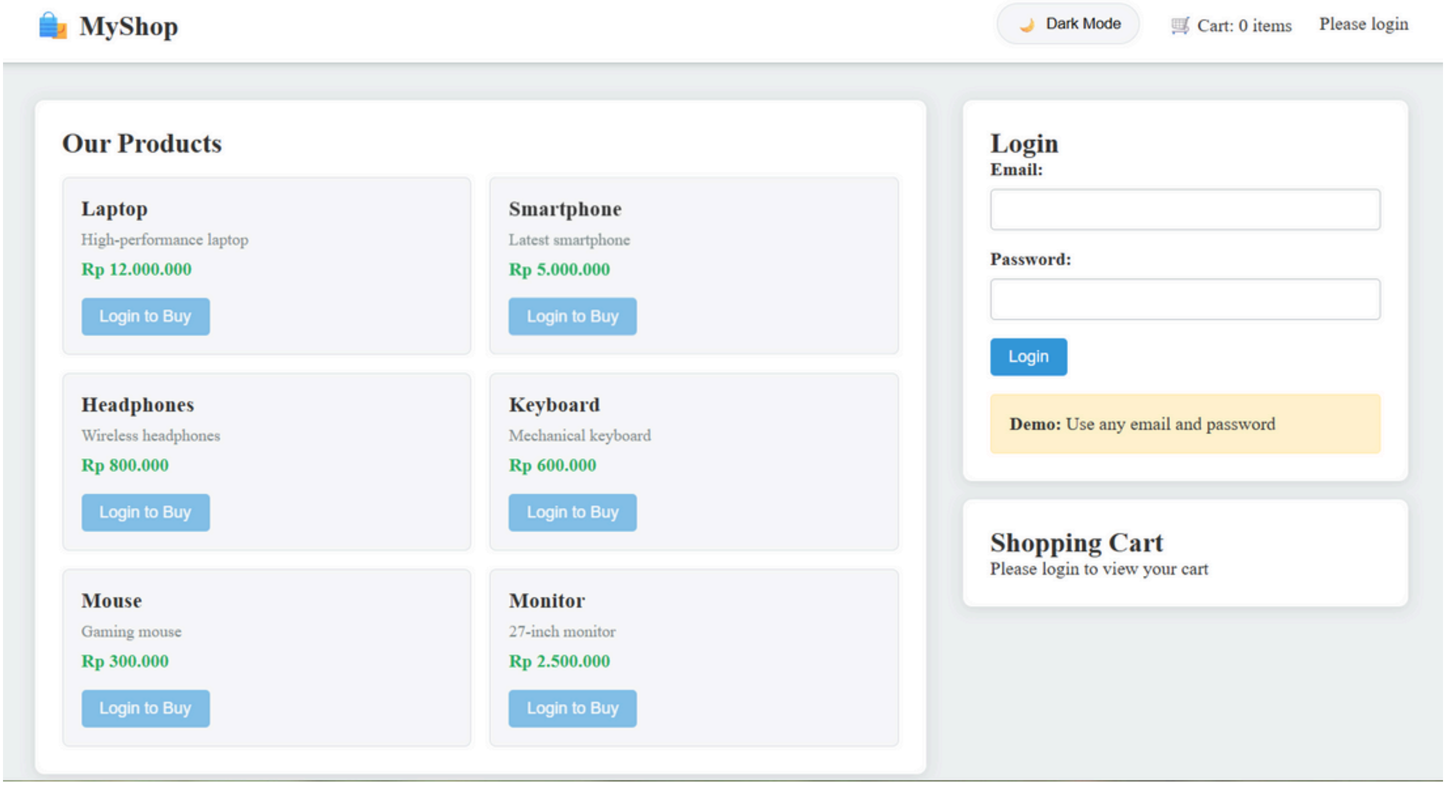
```css
/* File: src/App.css */
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

:root {
  --primary-color: #3498db;
  --secondary-color: #2c3e50;
  --success-color: #27ae60;
  --danger-color: #e74c3c;
  --warning-color: #f39c12;
  --light-bg: #ecf0f1;
  --dark-bg: #2c3e50;
  --light-text: #333;
  --dark-text: #ecf0f1;
}

/* Base Theme Styles */
.app.light {
  background-color: var(--light-bg);
  color: var(--light-text);
  min-height: 100vh;
}

.app.dark {
  background-color: var(--dark-bg);
  color: var(--dark-text);
  min-height: 100vh;
}

/* Header Styles */
.header {
  padding: 1rem 2rem;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}

.header.light {
  background: white;
  border-bottom: 1px solid #bdc3c7;
}

.header.dark {
  background: #34495e;
  border-bottom: 1px solid #46637f;
```

```css
}
.header-content {
  display: flex;
  justify-content: space-between;
  align-items: center;
  max-width: 1200px;
  margin: 0 auto;
}
.logo h1 {
  font-size: 1.5rem;
}
.nav {
  display: flex;
  align-items: center;
  gap: 1.5rem;
}
/* Theme Toggle */
.theme-toggle {
  display: flex;
  align-items: center;
  gap: 0.5rem;
  padding: 0.5rem 1rem;
  border: none;
  border-radius: 20px;
  cursor: pointer;
  transition: all 0.3s ease;
}
.theme-toggle.light {
  background: #f8f9fa;
  border: 1px solid #dee2e6;
}
.theme-toggle.dark {
  background: #46637f;
  border: 1px solid #5d7a95;
  color: white;
}
.theme-toggle:hover {
  transform: translateY(-2px);
}
/* Button Styles */
.btn {
  padding: 0.5rem 1
  padding: 0.5rem 1rem;
  border: none;
  border-radius: 4px;
  cursor: pointer;
  font-size: 0.9rem;
  transition: all 0.3s ease;
  text-decoration: none;
  display: inline-block;
}

.btn-primary {
  background: var(--primary-color);
  color: white;
}

.btn-primary:hover:not(:disabled) {
  background: #2980b9;
}

.btn-secondary {
  background: #95a5a6;
  color: white;
}

.btn-outline {
  background: transparent;
  border: 1px solid currentColor;
}

.btn-danger {
  background: var(--danger-color);
  color: white;
}

.btn-sm {
  padding: 0.25rem 0.5rem;
  font-size: 0.8rem;
}

.btn:disabled {
  opacity: 0.6;
  cursor: not-allowed;
}

/* Home Page Layout */
.home-page {
  padding: 2rem;
}

.container {
```

```css
  display: grid;
  grid-template-columns: 2fr 1fr;
  gap: 2rem;
  max-width: 1200px;
  margin: 0 auto;
}

/* Product Styles */
.product-list.light {
  background: white;
}

.product-list.dark {
  background: #34495e;
}

.product-list {
  padding: 1.5rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
}

.products-grid {
  display: grid;
  grid-template-columns: repeat(auto-fill, minmax(250px, 1fr));
  gap: 1rem;
  margin-top: 1rem;
}

.product-card {
  padding: 1rem;
  border-radius: 6px;
  transition: transform 0.3s ease;
}

.product-card.light {
  background: #f8f9fa;
  border: 1px solid #dee2e6;
}

.product-card.dark {
  background: #46637f;
  border: 1px solid #5d7a95;
}

.product-card:hover {
  transform: translateY(-2px);
}

.product-info h3 {
  margin-bottom: 0.5rem;
}

.description {
  color: #7f8c8d;
  font-size: 0.9rem;
  margin-bottom: 0.5rem;
}

.price {
  font-weight: bold;
  color: var(--success-color);
  margin-bottom: 1rem;
}

/* Cart Styles */
.cart {
  padding: 1.5rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
  margin-bottom: 1rem;
}

.cart.light {
  background: white;
}

.cart.dark {
  background: #34495e;
}

.cart-header {
  display: flex;
  justify-content: space-between;
  align-items: center;
  margin-bottom: 1rem;
}

.cart-item {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 1rem 0;
  border-bottom: 1px solid #bdc3c7;
}

.item-controls {
  display: flex;
  align-items: center;
  gap: 1rem;
}

.quantity-controls {
  display: flex;
  align-items: center;
  gap: 0.5rem;
}

.quantity {
  padding: 0 0.5rem;
}

.cart-footer {
  margin-top: 1rem;
  padding-top: 1rem;
  border-top: 2px solid #bdc3c7;
  display: flex;
  justify-content: space-between;
  align-items: center;
}

/* User Profile Styles */
.user-profile {
  padding: 1.5rem;
  border-radius: 8px;
  box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
  margin-bottom: 1rem;
}

.user-profile.light {
  background: white;
}

.user-profile.dark {
  background: #34495e;
}

.profile-info {
  display: flex;
  flex-direction: column;
  gap: 1rem;
}

.avatar {
  font-size: 3rem;
  text-align: center;
}

.details p {
  margin-bottom: 0.5
```

```css
  margin-bottom: 0.5rem;
}

/* Form Styles */
.form-group {
  margin-bottom: 1rem;
}

.form-group label {
  display: block;
  margin-bottom: 0.5rem;
  font-weight: bold;
}

.form-group input {
  width: 100%;
  padding: 0.5rem;
  border: 1px solid #bdc3c7;
  border-radius: 4px;
  font-size: 1rem;
}

.form-actions {
  display: flex;
  gap: 0.5rem;
}

.demo-credentials {
  margin-top: 1rem;
  padding: 1rem;
  background: #fff3cd;
  border-radius: 4px;
  border: 1px solid #ffeaa7;
}

/* Responsive Design */
@media (max-width: 768px) {
  .container {
    grid-template-columns: 1fr;
  }

  .header-content {
    flex-direction: column;
    gap: 1rem;
  }

  .nav {
    flex-wrap: wrap;
    justify-content: center;
  }
  }

  .products-grid {
    grid-template-columns: 1fr;
  }

  .cart-item {
    flex-direction: column;
    align-items: flex-start;
    gap: 1rem;
  }

  .item-controls {
    width: 100%;
    justify-content: space-between;
  }
}
```

Hasil



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🌙 Dark Mode

🛒 Cart: 0 items

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