



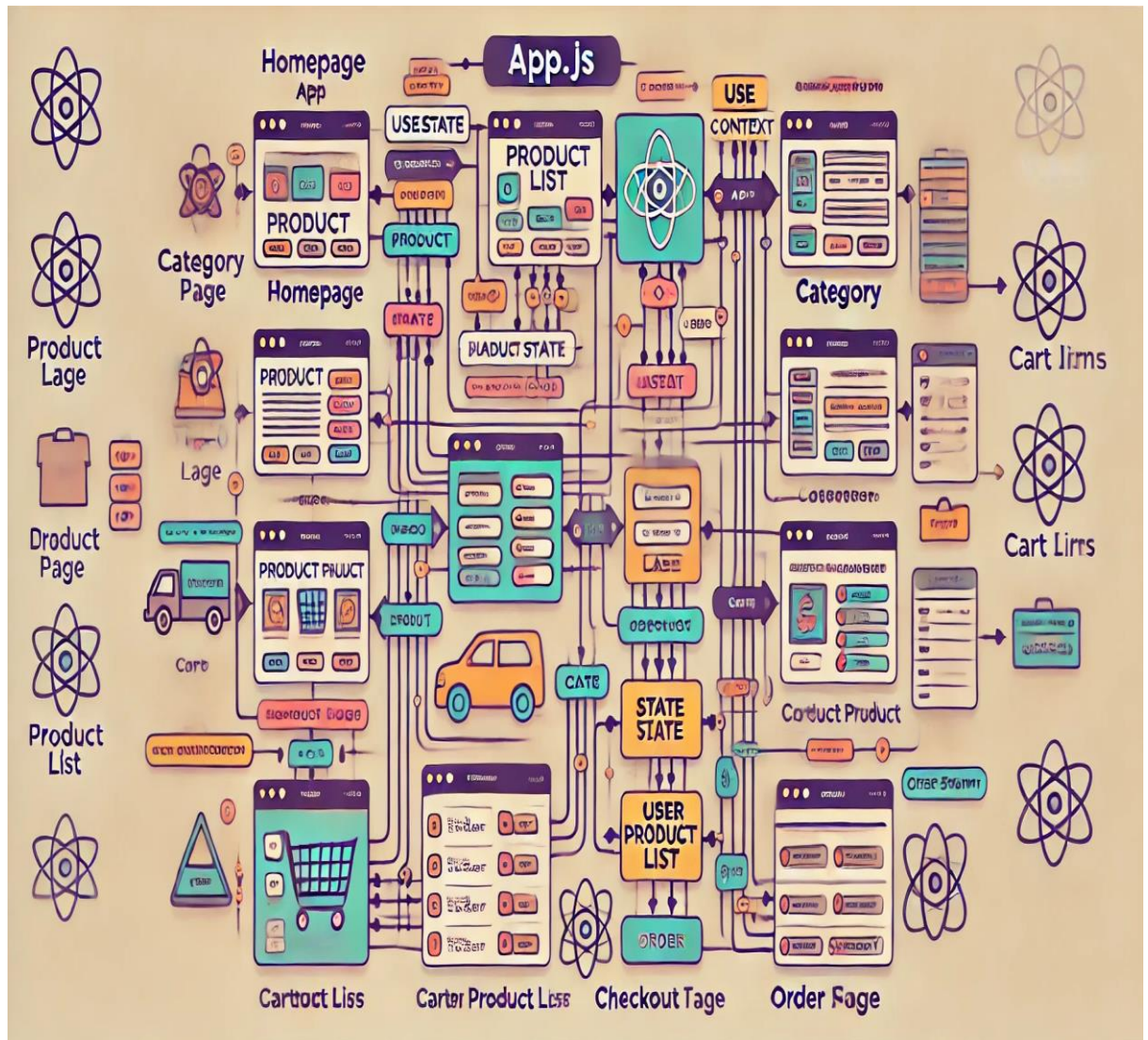
Architecture Diagram

“E-Commerce Application Clone”

Document Version Control

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1. Architecture Diagram



Detailed Explanation of the Architecture:

1. **App.js:**

- The main entry point of the React application.
- Handles the routing using **React Router**, directing users to different pages like Homepage, Category Page, Cart Page, and Checkout Page.

2. **Navbar Component:**

- Contains navigation links to different sections of the application, such as the Home, Category, Cart, and Checkout pages.
- Also displays the cart count dynamically based on the number of items in the cart.

3. **Routes:**

- Implements the routing for different pages using **React Router**. It maps URLs like /, /category/:id, /cart, and /checkout to the respective components.

4. **Homepage (Product List):**

- Displays a list of available products by fetching data.
- Each product is represented by a **ProductCard** that shows the product image, name, price, and an "Add to Cart" button.

5. **Category Page (Filtered Product List):**

- Displays products filtered by category. Similar in structure to the Homepage, but shows products only within the selected category.
- Navigated to via dynamic routing (/category/:id).

6. **Product Card:**

- A reusable component that represents individual products both on the Homepage and Category page.
- Contains an "Add to Cart" button, which allows users to add items to the cart.

7. **Product Details Page:**

- Displays detailed information about a selected product, including the product description, reviews, price, and images.
- Provides an option to add the product to the cart from the Product Details page.

8. **Cart Page:**

- Displays the items added to the cart.

- Users can modify the quantity or remove products from the cart.
- Also calculates and displays the total price of the cart items.

9. Cart Item Card:

- A reusable component that represents each item in the cart.
- Shows the product image, name, price, quantity, and allows users to modify the quantity or remove the item.

10. Checkout Page:

- Contains a form where users can enter their shipping and payment details.
- Confirms the order and shows a summary of the cart items, including the total price and shipping information.

11. Footer Component:

- Simple footer containing links to static pages such as Contact Us, Privacy Policy, etc.