Context Management Project

User Authentication Context

1. Create User Authentication Context:

Task: Develop a UserAuthContext to manage authentication state. **Guidance:** Utilize the createContext function. Provide a skeleton for the context with an initial state representing non-authenticated users.

2. Context Provider:

Task: Implement a provider for the UserAuthContext around your main application.

Guidance: Use the Context.Provider component. Ensure it receives and provides the authentication state.

3. Consumer Components:

Task: Identify two components consuming the UserAuthContext. **Guidance:** Choose components where user authentication affects the rendering. Demonstrate how to conditionally display content based on authentication status.

4. Login and Logout Actions:

Task: Define actions for user login and logout inside the context. **Guidance:** Create functions (login and logout) that modify the authentication state. Provide examples of how these actions are used.

Theme Context

5. Implement Theme Context:

Task: Set up a ThemeContext to manage application themes. **Guidance:** Use the createContext function to create the context. Include light and dark themes in the initial state.

6. Styling with Context:

Task: Apply styles dynamically based on the selected theme. **Guidance:** Show how components use the ThemeContext to apply styles conditionally. Provide CSS examples for light and dark themes.

Cart Context

7. Create Cart Context:

Task: Establish a CartContext to manage shopping cart state.

Guidance: Use createContext to set up the context with an initial cart

state (e.g., an empty array).

8. Adding and Removing Items:

Task: Implement actions for adding and removing items from the cart. **Guidance:** Define functions (addToCart and removeFromCart) that modify the cart state. Illustrate their usage.