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Assignment 2: Frontend Development with React JS

Project: Point of Sale System (POS)

Objective: Develop the frontend of the Point of Sales System using React JS. The system should have routing, login functionality, and access control.

Tasks:

1. **React Project Setup:**

   - Create a new React project using Create React App.

   - Set up routing for different pages.

2. **Login Page:**

   - Design a login page using React components.

   - Implement form validation and error handling.

3. **Authentication Flow:**

   - Integrate the login functionality with the backend using JWT.

   - Store the JWT token securely and handle user sessions.

4. **Navigation and Access Control:**

   - Implement a navigation bar with links to different sections of the application.

   - Implement access control based on user roles.

5. **Item and Item Category Pages:**

   - Create pages to display and manage items and item categories.

   - Implement forms for adding and editing items.

6. **Stock Management:**

   - Design a user-friendly interface for managing stock.

   - Display real-time stock information and allow users to update stock.

7. **Point of Sale Interface:**

    - Create a page for the point of sale with a shopping cart and checkout functionality.

    - Ensure proper integration with the backend for transaction handling.

8. **Responsive Design:**

    - Ensure that the application is responsive and works well on different screen sizes.