Interview Task: Simple E-commerce Application

Task Overview:

You are required to create a simple e-commerce application. The task is designed to assess your skills in both frontend and backend development using React.js/Next.js and Node.js. You will also work with JSON data and, if needed, an SQL database.

Task Details:

1. **Product Data:**
   - Create a JSON file that contains a list of products. Each product should include:
     - **Image link**
     - **Product name**
     - **Product description**
     - **Product price**
     - **Product rating**
     - **Size options**: Each product can have multiple sizes, and each size should have its own available quantity.
2. **User View:**
   - Display all available products on the main page.
   - When a user clicks on a product, navigate to a product details page where all the product details from the JSON file are shown.
3. **Product Details Page:**
   - Include two main actions:
     - **Add to Cart**: When clicked, show an option to "Go To Cart" and continue with the checkout process.
     - **Buy Now**: When clicked, check if the user is authenticated.
       - If not authenticated, prompt the user to log in or sign up.
       - If authenticated, proceed to the checkout page with a "Cash on Delivery" option.
4. **Order Flow:**
   - After a successful order:
     - **Product Quantity Update**: Adjust the product quantity based on the ordered size in the JSON file.
     - Show the ordered product details along with customer information to the Admin.
   - Allow users to view their previous orders in a "My Orders" section after logging in.

Technical Requirements:

- **Frontend**: Use React.js/Next.js.
- **Backend**: Use Node.js.
- **Data Handling**: Use a JSON file to store and fetch product data. If needed, you can integrate any SQL database for user authentication and order management.