5/26/25, 10:11 AM OneNote

# ReadMe file

Saturday, May 24, 2025 4:42 PM

## **ERP Demo Website**

This is a simple Enterprise Resource Planning (ERP) demo application built with React. It features a dashboard with dynamic data and charts, along with management sections for Products, Orders, and Customers. The application uses plain CSS for styling and localStorage for data persistence.

## **Features**

- User Authentication: Simple login (username: admin, password: password).
- Dashboard:
- Displays key metrics (Total Products, Recent Orders, Active Customers, Low Stock Alerts).
- Data is dynamically updated from the application's state.
- Interactive Bar Chart for Product Stock Levels.
- Interactive Pie Chart for Order Status Distribution.
- Clickable cards to navigate directly to relevant management pages.
- Product Management:
- · Add new products.
- · Edit existing products.
- · Delete products with confirmation.
- · Search and pagination for product listings.
- Order Management:
- · Add new orders, linking to existing products.
- View order details including customer name, product, quantity, and status.
- · Search and pagination for order listings.
- Customer Management:
- Add new customer records.
- Edit existing customer details.
- Delete customers with confirmation.
- Search and pagination for customer listings.
- User Management: (Display-only section with static user data)
   Navigation History: A "Back" button is available on all sub-pages to return to the previous view.
- Notifications: Small pop-up notifications for successful actions or errors.
- Local Storage: All data (products, orders, customers) persists in your browser's localStorage.

# Setup and Running Locally

To run this application on your local machine, follow these steps:

## Prerequisites

- Node.js (LTS version recommended)
- npm (Node Package Manager, usually comes with Node.js) or Yarn
  - 1. Create a New React Project

If you don't have an existing React project, you can create one using Create React App:

```
npx create-react-app erp-demo
cd erp-demo
```

# 2. Install Dependencies

This project uses lucide-react for icons and recharts for charts. Install them:

```
npm install lucide-react recharts
# OR
yarn add lucide-react recharts
```

## 3. Replace App. js

Delete the default src/App.js file (or src/App.jsx) and replace its content with the code you copied from the immersive.

Make sure your file is named App.js or App.jsx.

```
4. Update src/index.js (if necessary)
```

Ensure your src/index.js (or src/index.jsx) file is correctly rendering the App component. It should look something like this:

5/26/25, 10:11 AM OneNote

# 5. Start the Development Server

Once the files are in place and dependencies are installed, start the development server:

npm start
# OR
yarn start

This will open the application in your default web browser, usually at <a href="http://localhost:3000">http://localhost:3000</a>.

#### Usage

- Login: Use admin as the username and password as the password.
- Navigation: Use the sidebar to navigate between Dashboard, Products, Orders, Customers, and Users.
- Data Persistence: Any changes you make to products, orders, or customers will be saved in your browser's localStorage and will persist even if you close and reopen the browser tab.

### Notes

- This application uses inline CSS for styling, which is generally not recommended for large-scale
  applications but was chosen here to avoid external CSS framework configuration issues.
- The User Management section is for demonstration purposes only and does not allow adding, editing, or deleting users.
- Error handling is basic, primarily using simple notifications.
- No backend server or database is used; all data is managed in the client-side localStorage.