

# Modern Web Technologies - CPAN-212-0NA

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## Project Phase 1

**Project Title:** Inventory Management System

**Summary:** The Inventory Management System is a web application designed to help businesses manage their inventory efficiently. The system will include key features such as user authentication, inventory tracking, product management, and invoice generation. The project will be built using the MERN (MongoDB, Express.js, React.js, Node.js) stack.

### Planned Features:

1. **Homepage** – Overview of the system and introduction.
2. **Contact Us Page** – Users can get support or inquire about the service.
3. **Login/Signup Page** – User authentication.
4. **Dashboard** – A centralized place to manage inventory and view insights.
5. **Profile Page** – User account settings.
6. **Inventory Management** – Add, update, delete, and track inventory items.
7. **Invoice Printing** – Generate and print invoices for transactions.

### Resources & Research:

#### 1. MERN Stack Tutorials:

- [MongoDB Official Docs](#)
- [Express.js Guide](#)
- [React.js Documentation](#)
- [Node.js Documentation](#)

#### 2. YouTube Videos:

- [Traversy Media's MERN Stack Crash Course](#)
- [Advanced MERN Tutorial - Inventory Management App](#)

### 3. Google / Chatgpt:

- o <https://aldizhupani.medium.com/inventory-management-mern-app-with-authentication-669c9956eb91>

### 4. UI/UX Tools:

- o Figma for wireframing
- o Material UI for React components

### 5. Deployment Resources:

- o Vercel/Netlify for frontend deployment
- o Render/Digital Ocean for backend hosting

### Layout:

