

# Project Proposal Document

## B2B Wholesale Portal – Web Application

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### 1. Project Title & Short Description

**Title:** B2B Wholesale Portal – Web Application

**Description:**

The B2B Wholesale Portal is a web-based platform facilitating seamless business-to-business transactions between wholesalers and retailers. It allows wholesalers to manage inventory, products, orders, and payments, while retailers can browse products, place bulk orders, and track invoices – all through a unified web portal.

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### 2. Application Type

- **Wholesaler Side:** Web Application (Admin Panel)
  - **Retailer Side:** Web Application (Client Portal)
  - **Deployment:** Cloud-hosted hybrid model (frontend + backend on web servers)
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### 3. Motivation / Problem Statement

Traditional wholesale operations often rely on manual processes for maintaining records, handling orders, and generating invoices. These methods are error-prone, time-consuming, and lack real-time visibility for wholesalers and retailers.

The proposed B2B Wholesale Portal solves these challenges by digitising operations, providing:

- Faster and more accurate order management
  - Real-time stock visibility
  - Centralised platform for wholesalers and retailers
  - Automated invoicing & reporting
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## 4. Target Users & Use Cases

### Users:

1. **Wholesalers** – manage products, inventory, customers, orders, and payments.
2. **Retailers** – browse products, place bulk orders, view invoices, track order status.

### Use Cases:

- Wholesaler adds new products and updates stock.
  - Retailer browses the catalog and places bulk orders.
  - Wholesaler approves/rejects orders and generates invoices.
  - Retailer tracks order status and downloads invoices.
  - Wholesaler reviews sales and inventory reports.
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## 5. Scope & High-Level Features

**Scope:** Development of a dual-portal system – one for wholesalers (admin side) and one for retailers (client side), both as web applications.

### Features:

- Dashboard with sales/stock overview
  - Product & Inventory Management
  - Bulk Order Management with status tracking
  - Retailer Management (profiles, history)
  - Payments & Invoicing
  - Reports & Analytics (sales, stock, customer purchases)
  - User roles & permissions (wholesaler vs retailer)
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## 6. Technology Stack

- **Frontend:** React.js
- **Backend:** Node.js (Express)
- **Database:** MongoDB / MySQL
- **Authentication:** JWT-based authentication

- **Deployment:** Vercel(frontend), Render (backend)
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## 7. Roles & Responsibilities (Team of 9)

Role	Person Name
Team Lead / Project Manager (PM)	Jaymin Dave
Product Owner (PO)	Jenil Soni
Solution Architect (SA)	Hiten Thakkar
Business Analyst (BA)	Kathan Shah
DevOps Engineer (QA & Security)	Anuj Shah
UI/UX Designer	Archie Shah and Kashish Jain
Frontend Developer	Archie Shah and Kashish Jain
Backend Developer	Harsh Mehta , Hiten , Jaymin
Scrum Master (SM)/ Technical Writer	Yashvi Shah

1. **Team Lead / Project Manager (PM)** – Oversees project progress and manages tasks.
2. **Product Owner (PO)** – Defines requirements and aligns the project with faculty expectations.
3. **Solution Architect (SA)** – Designs system architecture & database models.
4. **Business Analyst (BA)** – Gathers requirements and prepares use cases.
5. **DevOps Engineer (QA & Security)** – Handles CI/CD, testing, and secure deployment.
6. **UI/UX Designer** – Wireframes, user flows, and portal designs.
7. **Frontend Developer** – Implements React-based web portals.
8. **Backend Developer** – Develops APIs and manages database logic.

9. **Scrum Master (SM)** – Ensures agile practices, sprint planning, and team coordination.
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## 8. Timeline with Milestones

**Duration: ~12 weeks (Aug–Nov 2025)**

- **Week 1–2:** Requirement analysis, proposal finalisation (BA, PO, PM)
- **Week 3–4:** System architecture design, database schema (SA, Backend Dev)
- **Week 5–6:** UI/UX wireframes, frontend setup (UI/UX, Frontend Dev)
- **Week 7–8:** Backend API development, authentication (Backend Dev, SA)
- **Week 9:** Integration of frontend with backend (Frontend + Backend)
- **Week 10:** Testing & bug fixing (DevOps/QA, SM)
- **Week 11:** Deployment on cloud & documentation (DevOps, PM, BA)
- **Week 12:** Final demo & report submission (Entire Team)