

# Vasu Traders - Website Development Plan

## System Overview

Create a Role-Based Web Application with:

Roles:

- Admin: Manages products, delivery staff, orders, job posts
- Delivery: Views assigned deliveries, updates status, logs work
- Customer: Browses products, places orders, checks delivery status

## Architecture Recommendation

Frontend:

- Framework: React.js or Next.js
- UI: Tailwind CSS or Bootstrap
- Routing: React Router / Next.js routing

Backend:

- Framework: Node.js + Express
- Auth: JWT (JSON Web Token)
- API: RESTful endpoints

Database:

- MongoDB

Collections:

- users
- products
- orders
- deliveries
- job\_applications
- messages

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## Role-Based Access

Access Matrix:

Page	Admin	Delivery	Customer
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Manage Products			
View Assigned Orders			
Apply Job			
Product Catalog			
Order History			
Admin Dashboard			

## Workflow (Phases)

Phase 1: Planning

- Define features
- Gather product data & delivery zones

Phase 2: Design

- Use Figma for layout mockups

Phase 3: Development

- Auth System: Role-based login using JWT
- Admin Dashboard: Manage products, deliveries, job applications
- Delivery Dashboard: Assigned delivery, update status
- Customer Interface: Browse products, place orders

## Team Division (Community Support)

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## Roles and Responsibilities:

- Frontend Developer: UI for all roles
- Backend Developer: APIs, database integration
- UI/UX Designer: Layouts and wireframes
- Database Admin: Schema and backups
- QA Tester: Functional testing
- Deployment Manager: Domain and CI/CD setup

## Project File Structure

### Backend (Node.js):

```
/backend  
  
  /models  
  
  /routes  
  
  /controllers  
  
  /middleware  
  
server.js
```

### Frontend (React):

```
/frontend  
  
  /pages  
  
  /components  
  
  /hooks  
  
  /context  
  
App.js
```

## Login System Logic

- Login returns JWT token
- Token stored in localStorage

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- Token decoded for role-based access

## Deployment & Add-ons

Deployment:

- Frontend: Vercel, Netlify
- Backend: Render, Railway
- DB: MongoDB Atlas
- Domain: GoDaddy/Namecheap

Add-ons:

- PWA Support
- Email Notifications (Nodemailer)
- Analytics Dashboard
- Multi-language (Hindi + English)