# Product Requirement & Vision Document

**Project Name:** Roshan Traders   
**Version:** 1.0  
**Date:** 13 October 2025

## **1. Project Overview**

Roshan Traders is a digital platform designed to connect **manufacturers, agents, truck owners, and drivers** involved in the construction materials business (bricks, wood, soil, etc.).  
The platform enables **online material trading**, **order tracking**, and **workforce coordination** — simplifying end-to-end trade operations.

Initially, this will be a **web-based system**, later expanding into a **mobile app**.

## **2. Objective & Problem Statement**

The founder currently manages trading, transportation, and labor operations manually via phone .  
There’s no centralized visibility for orders, deliveries, or payments.

**Objective:**  
To build a single digital system that:

* Connects customers with suppliers and transporters.
* Tracks material orders, deliveries, and payments.
* Simplifies communication and workforce coordination.
* Encourages growth via referrals and loyalty rewards.

## **3. Target Users**

| **User Role** | **Description** |
| --- | --- |
| **Admin (Founder)** | Full control of the system, manages orders, drivers, payments, and reports. |
| **Manufacturer / Agent / Engineer (Customer)** | Buys construction materials, tracks orders, and manages invoices. |
| **Truck Owner** | Manages trucks and assigns drivers for deliveries. |
| **Driver** | Receives assigned deliveries, updates job status, and tracks earnings. |

## **4. Core Features (Phase 1 – Web App)**

### 🔹 Login & Role-based Access

* OTP-based login using mobile number.
* Automatic redirection to the user’s respective dashboard.
* Secure role-based permissions.

### 🔹 Customer Module

* Place new orders (materials, quantity, delivery address).
* Track delivery status: Pending → In Transit → Delivered.
* View order history, invoices, and payments.

### 🔹 Admin Module

* Dashboard showing KPIs (Orders, Trucks, Payments, Active Users).
* Manage products, suppliers, and customers.
* Assign deliveries to truck owners and drivers.
* Approve payments and manage reports.

### 🔹 Truck Owner Module

* Manage truck fleet and drivers.
* View assigned orders and delivery routes.
* Track driver performance and delivery completion.

### 🔹 Driver Module

* View assigned tasks and pickup/drop locations.
* Update delivery status in real-time.
* View completed jobs and earnings summary.

### 🔹 Referral System

* Each user can invite new users via referral code.
* Referral bonuses/discounts added automatically on signup or order completion.

## **5. Detailed Workflow**

### **A. Login Workflow**

1. User enters mobile number → clicks “Get OTP”.
2. OTP sent via SMS API.
3. After verification, user role is identified.
4. Redirected to role-specific dashboard.

### **B. Customer Workflow**

1. Login → Dashboard → “Place New Order”.
2. Select Material → Enter Quantity → Enter Address → Confirm.
3. Order ID generated → status = “Pending”.
4. Admin assigns Truck Owner → Truck Owner assigns Driver.
5. Customer can track delivery status (with location).
6. Once delivered → Invoice auto-generated → Payment done.

### **C. Admin Workflow**

1. Login → Dashboard overview (Total Orders, Pending Deliveries, Active Trucks).
2. Click “Orders” → View all → Assign truck/driver.
3. Add or edit materials & pricing.
4. Manage suppliers and employee details.
5. Approve payments, generate reports.

### **D. Truck Owner Workflow**

1. Login → View assigned deliveries.
2. Assign driver to each order.
3. Update truck and delivery status.
4. View completed deliveries and payment due list.

### **E. Driver Workflow**

1. Login → See today’s assigned jobs.
2. Click “View Task” → see pickup/drop location, material details.
3. Change status: In Progress → Delivered.
4. Admin updates payment after delivery completion.

## **6. Page-by-Page Description**

| **Page** | **Description** | **Key Functions** |
| --- | --- | --- |
| **Login / OTP Page** | Authenticate via mobile OTP | Send OTP, Verify, Redirect |
| **Admin Dashboard** | Business overview | Orders, Drivers, Payments, Reports |
| **Customer Dashboard** | User overview | Place Order, View Orders, Track Status |
| **Order Details Page** | Detailed view of order | Status update, Invoice view |
| **Driver Tasks Page** | Jobs assigned to driver | Update delivery status |
| **Referral Page** | Invite new users | Share referral link, view rewards |
| **Reports Page** | Data insights | Orders, Payments, Deliveries, Referrals |

## **7. Reports & Insights**

| **Report Name** | **Description** |
| --- | --- |
| **Order Report** | Total orders by date, status, customer |
| **Delivery Report** | Completed vs Pending deliveries |
| **Supplier Performance** | Supplier rating & delivery success rate |
| **Driver Performance** | Number of deliveries completed |
| **Referral Growth Report** | New users gained via referrals |
| **Revenue Report** | Payments collected per week/month |

## **8. Technical Vision**

| **Component** | **Technology** |
| --- | --- |
| **Frontend** | React.js / Next.js |
| **Backend** | Node.js + Express.js |
| **Database** | PostgreSQL |

## **9. Business Value**

| **Stakeholder** | **Benefits** |
| --- | --- |
| **Founder (Admin)** | Complete visibility of trade network, easy management of suppliers, trucks, and drivers. |
| **Customers** | Easy material ordering and real-time delivery tracking. |
| **Truck Owners** | Organized delivery assignments and payment management. |
| **Drivers** | Clear job allocation and transparent payment tracking. |

## **10. Summary**

Roshan Traders is a **digital bridge** between manufacturers, agents, truck owners, and drivers — simplifying material trading, delivery tracking, and business reporting.  
With a scalable architecture and clear workflows, it supports both **business efficiency** and **future growth**.