

# AI-Powered Full Development Guide for Vasu Traders

## VASU TRADERS WEBSITE DEVELOPMENT - AI-POWERED WORKFLOW GUIDE

This guide includes all major and minor steps for building the digital platform for Vasu Traders using AI tools. Each section includes practical steps and AI prompts to make development faster and easier.

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### PHASE 1: FRONTEND DEVELOPMENT (React.js + Tailwind CSS)

#### Step 1: Project Setup

- Tool: ChatGPT, Codeium
- Task: Initialize React + Tailwind project

Prompt:

"Generate a React project folder structure for a role-based login web app using Tailwind CSS."

#### Step 2: Login Page UI with Role Selector

- Tool: Uizard, Canva, ChatGPT
- Task: Design and implement a login UI with role selection

Prompt:

"Design a modern login UI with fields for email, password, and role selection (Admin, Customer, Delivery) using Tailwind CSS."

#### Step 3: React Login Component with Role Routing

- Tool: Codeium, ChatGPT
- Task: Build login component and redirect users by role

Prompt:

"Create a functional React login component with validation and redirect to role-based dashboard using React Router."

#### Step 4: Routing Setup

- Tool: ChatGPT
- Task: Configure react-router-dom for 3 dashboards

Prompt:

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"Setup role-based routing in a React app using react-router-dom for admin, customer, and delivery dashboards."

## Step 5: Basic Dashboards

- Tool: ChatGPT, Canva
- Task: Build basic layouts for each user role

Prompt:

"Create a Tailwind-based responsive dashboard layout with a navbar and greeting for each user role."

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## PHASE 2: BACKEND DEVELOPMENT (Node.js + Express)

### Step 1: Project Initialization

- Tool: ChatGPT, GitHub Copilot
- Task: Setup Express app

Prompt:

"Initialize an Express.js backend with folder structure for routes, models, controllers, and middleware."

### Step 2: Authentication (JWT)

- Tool: ChatGPT, Replit
- Task: Secure login using JWT

Prompt:

"Build login and registration APIs using JWT authentication in Node.js with role-based middleware."

### Step 3: CRUD APIs

- Tool: ChatGPT
- Task: Create APIs for products, orders, job applications

Prompt:

"Create RESTful APIs for managing products, orders, and job applications using Express.js and MongoDB."

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## PHASE 3: DATABASE DESIGN (MongoDB Atlas)

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## Step 1: Schema Design

- Tool: ChatGPT

- Task: Design schemas for Users, Products, Orders

Prompt:

"Generate Mongoose schemas for users, products, orders, and delivery job applications."

## Step 2: Cloud Setup

- Tool: MongoDB Atlas

- Task: Create cluster and connect URI to backend

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## PHASE 4: INTEGRATION & TESTING

### Step 1: Connect Frontend & Backend

- Tool: Axios + ChatGPT

Prompt:

"Write a React component that fetches product data from an Express.js API using Axios."

### Step 2: Testing

- Tool: Postman, Notion AI

Prompt:

"List 10 test cases for user login, product order, and delivery application APIs."

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## PHASE 5: DEPLOYMENT & AUTOMATION

### Step 1: Deployment

- Tool: Vercel (frontend), Railway/Render (backend)

Prompt:

"Deploy a React frontend on Vercel and an Express backend on Railway. Setup environmental variables."

### Step 2: Automation

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- Tool: Zapier (free tier)

Prompt:

"Automate a workflow where a job application form sends an email and stores data in Google Sheets using Zapier."

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### RECOMMENDED TOOLS & PLATFORMS (Free Tiers Available)

Frontend: React.js, Tailwind CSS, Canva, Uizard

Backend: Node.js, Express.js, GitHub Copilot

Database: MongoDB Atlas

Testing: Postman, Notion AI

Project Mgmt: Notion, Trello, ClickUp

Deployment: Vercel (frontend), Railway/Render (backend)

Automation: Zapier, Tactiq

This AI-enhanced workflow ensures rapid, structured, and team-friendly development for your digital platform.