Trades & Homeowners Job Matching Platform Migration

Budget: $649 USD
Timeline: 25–30 days

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1. Project Overview

This project involves migrating an existing website built on Lovable (React + Supabase) to a new technology stack (React + Prisma) with enhanced features. The platform connects homeowners with tradespeople through a job posting system with map-based visualization, directory listings, and integrated payment processing.

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2. Important Deliverables

Core Platform Migration

- Complete migration from Bolt.new/Lovable platform to standalone deployment
- Rebuild database schema using Prisma ORM (migrating from Supabase)
- Preserve all existing functionality and data
- Implement improved architecture and code structure

Google Maps Integration

- Interactive map display showing posted jobs by location
- Tradespeople can view available jobs on map interface
- Filter jobs by location, trade type, and radius
- Click-to-view job details with location markers
- Geolocation support for accurate positioning

TradesPeople Directory

- £1/month subscription for homeowners to browse tradespeople profiles
- Searchable directory with filters (trade type, location, ratings)
- Profile pages displaying experience, certifications, reviews, work area
- Recurring monthly billing via Stripe

Payment Integration (Stripe)

- Job lead purchases for tradespeople
- Directory subscription payments (£1/month)
- Secure payment processing with PCI compliance
- Payment history tracking
- Refund and dispute handling capability
- Webhook integration for payment status updates

Authentication System

- Social media login (Google, Facebook, LinkedIn)
- Traditional email/password signup and login
- Bot prevention using CAPTCHA or similar verification
- Email verification for new accounts
- Password recovery and reset functionality
- Secure session management with JWT tokens

Twilio SMS Verification

- Phone number verification during signup
- SMS-based two-factor authentication (optional)
- OTP (One-Time Password) delivery for critical actions
- Phone number validation and formatting

Admin Dashboard

- Comprehensive control panel for site management
- View all homeowner profiles (name, email, phone, postcode, purchase history)
- View all tradespeople profiles (name, email, phone, postcode, work area, trades selected)
- Edit payment prices dynamically
- Update site images and content
- Permanent log of all transactions and purchases
- User management (suspend, delete, verify accounts)
- Analytics and reporting (signups, revenue, active jobs)
- Content management for static pages

Additional Features

- User role management (homeowner, tradesperson, admin)
- Job posting and management system
- Notification system (email/SMS for new jobs, purchases)
- Review and rating system
- Secure file uploads for profiles and job details

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3. Technology Stack

Component	Technology
Frontend	React.js (existing codebase adapted)
Backend/API	Node.js with Express.js
Database	PostgreSQL with Prisma ORM
Authentication	OAuth 2.0, JWT, Passport.js
Maps	Google Maps JavaScript API
Payment Processing	Stripe API
SMS Service	Twilio API

Bot Prevention	Google reCAPTCHA v3 or hCaptcha
Hosting	Vercel/Netlify (frontend), AWS/DigitalOcean (backend)
File Storage	AWS S3 or Cloudinary

4. Required API Keys & Credentials

Service	API Key Required	Purpose
Google Maps	GOOGLE_MAPS_API_KEY	Map integration, geocoding
Stripe	STRIPE_SECRET_KEY	Payment processing
Stripe	STRIPE_PUBLISHABLE_KEY	Frontend payment forms
Stripe	STRIPE_WEBHOOK_SECRET	Payment webhooks
Twilio	TWILIO_ACCOUNT_SID	SMS verification
Twilio	TWILIO_AUTH_TOKEN	SMS authentication

Twilio	TWILIO_PHONE_NUMBER	Sender phone number

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5. Project Milestones & Timeline

Stage	Duration
Requirements Finalization & Setup	2 days
Database Schema Design (Prisma)	3 days
Data Migration from Supabase	2 days
Authentication System (OAuth + Normal)	4 days
Google Maps Integration	3 days
Stripe Payment Integration	4 days
Twilio SMS Verification	2 days
Admin Dashboard Development	4 days

Bot Prevention Implementation	1 day
Testing & Bug Fixes	3 days
Final QA & Deployment	2 days
Total	25–30 days

6. Post-Launch Support

- 2 weeks of bug fixes and urgent support (included)
- Long-term maintenance available by arrangement

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7. Approval & Next Steps

Please review this SRS and confirm:

1. All features and requirements are accurately captured
2. You can provide the items listed in "What We Need From Client"
3. Budget ($649) and timeline (25–30 days) are acceptable

Development will begin immediately upon:

- The order on the fiverr

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