NeighborhoodPool
Community-Powered Delivery Revolution

Group 28

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♡ Mission Statement

The Challenge: Urban delivery systems create congestion, inflate costs by 300%, and isolate communities. Current platforms like DoorDash have narrow pooling thresholds, leaving seniors and disabled individuals struggling with complex interfaces.
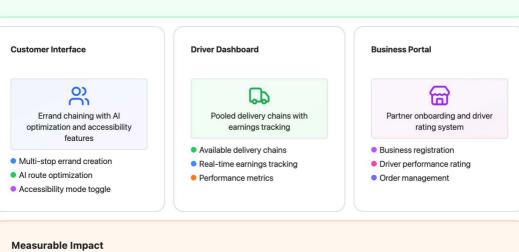
Our Solution: NeighborChain transforms delivery through intelligent AI-powered errand chaining, enabling neighborhoods to pool deliveries with accessibility-first design and LLM-powered clarity to eliminate miscommunication.

Impact: 60% faster deliveries, 40% cost reduction, enhanced local business support, and barrier-free access for all community members while building lasting neighborhood trust and reducing urban congestion.

Key Stakeholders

- **Customers:** Community members needing errands
- **Drivers:** Local drivers earning through pooled chains
- **Businesses:** Restaurants, pharmacies, grocery stores
- **Admins:** Platform managers & community coordinators

Technology Stack

🌐 React	🗄 Supabase	🧠 OpenAI
⚡ TypeScript	📱 Tailwind	🗺 Maps API

Development Roadmap

October 2025 (Release 1)

Smart Errand Chaining System
Multi-stop errand creation with priority settings, time constraints, and accessibility modes for seniors/disabled users

AI-Powered Route Optimization
LLM integration for order cleanup, intelligent route planning, and comprehensive delivery summaries

Driver Earnings Dashboard
Real-time tracking, performance metrics, delivery chain management with dynamic acceptance system

Business Partner Platform
Complete onboarding flow, driver rating system, order management, and local business incentive programs

November 2025 (Release 2)

Real-time Geolocation Tracking
Live driver location, predictive ETA calculations, delivery status updates with customer notifications

Community Trust Metrics
Neighborhood-based reputation systems, safety verification, local business loyalty programs and social features

Accessibility Innovation Suite
Voice command integration, screen reader optimization, cognitive assistance modes, and caregiver management tools

ML Pooling & Pricing Engine
Machine learning for optimal group sizing, dynamic surge pricing, demand prediction, and efficiency maximization

Customer Interface

Errand chaining with AI optimization and accessibility features

- 🔵 Multi-stop errand creation
- 🟢 AI route optimization
- 🟣 Accessibility mode toggle

Driver Dashboard

Pooled delivery chains with earnings tracking

- 🟢 Available delivery chains
- 🔵 Real-time earnings tracking
- 🟠 Performance metrics

Business Portal

Partner onboarding and driver rating system

- 🟣 Business registration
- 🔴 Driver performance rating
- 🟣 Order management

Measurable Impact

🕐 **60%** Faster Delivery	$ **40%** Cost Reduction	📈 **85%** Local Business Growth	♡ **95%** User Satisfaction

NeighborChain: Reducing delivery congestion • Supporting local businesses • Building community trust
Designed with accessibility in mind for all community members

Professional   Exciting   Community-Focused   Accessible