4-Day Work Plan: N2 Rules & Templates Backend

Goal: Deliver a working backend (Supabase + Node.js + Twilio + Rules Engine) in 4 days, with **Pair 1 (Chatrapathi + Apoorva)** owning *data & worker*, and **Pair 2 (Viditi + Dinesh)** owning *engine & rules*.

Day	Pair 1 (Chatrapathi + Apoorva)	Pair 2 (Viditi + Dinesh)
Day 1	• Design all tables: templates, rules, contacts_state, opt_outs, logs. • Write migrations and seed initial data. • Build Supabase CRUD helpers.	• Set up Node.js backend skeleton, routes. • Configure Twilio webhook endpoint. • Define request/response payloads.
Day 2	• Integrate CRUD helpers with backend. • Add contacts_state updates (new → awaiting_confirmation → confirmed/cancelled).	• Implement rule evaluation engine (STOP, HELP, YES, NO, RESC • Create template rendering with placeholders ({{business_name}},
Day 3	• Build follow-up worker structure (cron/queue). • Write SQL selection queries for Day-2 and Day-5 follow-ups.	• Add Twilio outbound sending logic with idempotency. • Start implementing advanced rules (HOURS, ADDRESS, PRICIN
Day 4	• Complete follow-up worker logic (integrate with Twilio sends). • Polish schema queries, ensure reliability.	• Add fallback AI escalation (if no rule match). • Finalize advanced rules and error handling.

Deliverables by End of Day 4:

- Stable DB schema with all tables, migrations, and seeded data.
- Working Twilio integration for inbound/outbound messaging.
- Rule engine for v1 & v2 rules.
- Automated Day-2 & Day-5 follow-up worker.
- Error handling + basic docs.