

Week 1 – Detailed Execution Plan (AI Calling Platform)

This document is a strict, no-waste execution plan for Week 1. Follow it exactly to build the Call Orchestration Core. No AI, no bots, no voice logic in this week.

Day 1 – Project Skeleton & Database Connection

- Lock the problem statement in README (call orchestration, not AI).
- Create Node.js project with Express/Fastify.
- Set up environment variables and config.
- Create Postgres database (Supabase/Neon/local).
- Create organizations and calls tables only.
- Verify DB connection with insert/select test.
- Commit code.

Day 2 – Calls as First-Class Data Objects

- Define call lifecycle: PENDING → IN_PROGRESS → COMPLETED.
- Create POST /api/calls endpoint.
- Create GET /api/calls endpoint.
- Create PATCH /api/calls/:id endpoint.
- Test APIs with Postman or curl.
- Commit code.

Day 3 – Inbound Call Handling

- Study Exotel inbound webhook payload format.
- Create POST /webhooks/inbound endpoint.
- Insert inbound calls into DB.
- Simulate inbound calls using curl.
- Mark calls as COMPLETED on simulated end event.
- Commit code.

Day 4 – Outbound Call Creation

- Define outbound call rule using next_action_at.
- Create POST /api/calls/outbound endpoint.
- Insert outbound calls as PENDING.

- Create fake dial service (no real calls).
- Update calls to IN_PROGRESS on trigger.
- Commit code.

Day 5 – Scheduler Core

- Define scheduler rule (status=PENDING and next_action_at<=now).
- Create cron or interval-based scheduler.
- Trigger outbound calls automatically.
- Ensure idempotency (no duplicate triggers).
- Test with delayed calls.
- Commit code.

Day 6 – Provider Events & Retry Logic

- Create POST /webhooks/provider-event endpoint.
- Handle answered, completed, no-answer events.
- Increment retries on no-answer.
- Reschedule calls with next_action_at.
- Limit retries to 1.
- Commit code.

Day 7 – End-to-End Proof & Cleanup

- Simulate full call lifecycle.
- Verify DB records for correctness.
- Create minimal admin view or API list.
- Write README documentation.
- Final commit for Week 1 completion.

Week 1 Rules (Must Follow)

- Do not add AI or voice features.
- Do not build UI or bot templates.
- Do not optimize prematurely.
- Focus only on call lifecycle and scheduling.

If Week 1 is completed as written, the foundation for all bots (appointments, payments, reminders) is ready.