Max Potential Basketball – Developer Handoff

This document contains everything needed to deliver the Supabase + n8n build for the Max Potential Basketball (MPB) system. Scope is limited to the items below; anything not listed is out‑of‑scope for v1.

# 1 Environment & Access

• Supabase service‑key (not anon key) and project URL.

• n8n workspace invite (cloud or self‑host).

• OpenAI API key for GPT‑4o & Whisper.

All credentials will be provided to you via a separate secure channel.

# 2 Core Schema (create exactly as written)

actor(id uuid PK default gen\_random\_uuid(), name text, kind text, created\_at timestamptz)

profile(id uuid PK, actor\_id uuid FK actor(id), json\_attrs jsonb default '{}', created\_at timestamptz)

observation(id uuid PK, actor\_id uuid FK, note\_type text, raw\_text text,

tags text[] default array[]::text[], json\_attrs jsonb default '{}', created\_at timestamptz)

intervention(id uuid PK, actor\_id uuid FK, type text, status text default 'Planned',

start\_date date, planned\_end date, constraint\_tags text[] default array[]::text[],

json\_attrs jsonb default '{}', created\_at timestamptz)

metric(id uuid PK, target\_id uuid, metric\_type text, value numeric, unit text, created\_at timestamptz)

tag(id uuid PK, name text unique, namespace text default 'global', embedding vector(1536))

link(id uuid PK, left\_id uuid, right\_id uuid, rel\_type text, json\_attrs jsonb default '{}', created\_at timestamptz)

# 3 Basketball Overlay Tables

overlay\_pdp(intervention\_id uuid PK → intervention(id), pdp\_level int, focus\_area text)

overlay\_drill(intervention\_id uuid PK → intervention(id),

chaos\_level int, suggested\_format text,

base\_drill\_uid text, -- e.g. 'DR-GET45'

constraint\_combo jsonb,

combo\_hash text generated always as (md5(base\_drill\_uid || constraint\_combo::text)) stored,

is\_active boolean default true)

alter table overlay\_drill add constraint uniq\_combo unique(combo\_hash);

# 4 Realtime Trigger (copy‑paste)

ALTER PUBLICATION supabase\_realtime ADD TABLE observation;

CREATE OR REPLACE FUNCTION notify\_obs() RETURNS trigger AS $$

BEGIN

PERFORM pg\_notify('observation\_new', row\_to\_json(NEW)::text);

RETURN NEW;

END; $$ LANGUAGE plpgsql;

CREATE TRIGGER obs\_new

AFTER INSERT ON observation

FOR EACH ROW EXECUTE PROCEDURE notify\_obs();

# 5 House‑Keeping Jobs

• \*\*Duplicate hash guard\*\* – combo\_hash UNIQUE prevents identical drill rows.

• \*\*Soft archive\*\* – monthly cron sets `is\_active = false` when a drill uid has no link rows in ≥90 days.

• \*\*Cold storage\*\* – quarterly task exports soft‑archived rows older than 1 yr to parquet and deletes them.

# 6 Stored Function `build\_modular\_drill()`

INPUT: \_base\_id uuid, \_constraints text[], \_player\_ids uuid[], \_format text

LOGIC:

1. INSERT INTO intervention(type='Drill', constraint\_tags=\_constraints, json\_attrs->>'format'=\_format)

2. INSERT INTO overlay\_drill with base\_drill\_uid, constraint\_combo := \_constraints

3. INSERT link rows for each \_player\_id (rel\_type='Assigned')

4. RETURN new intervention.id

# 7 Required n8n Flows

1. \*\*Capture\*\* – Webhook > Whisper (<=15 s local / API fallback) > INSERT observation

2. \*\*Realtime listener\*\* – Supabase channel `observation\_new` > GPT tag & score > UPDATE intervention / metric

3. \*\*Router\*\* – Branch: IdeaScore ≥400 & urgency ≥4 → Twilio SMS; else store. Daily limit 4.

4. \*\*Weekly digest\*\* – Cron Fri 16:00 > SQL view top unaddressed constraint tags > SendGrid email.

# 8 Ruleset & Prompt Config (insert rows)

Personal / Owner:  
{ "vertical":"Personal","role":"Owner","push\_logic":{"jackpot":400,"daily\_limit":4,"channel":"sms:+1555"} }  
  
Basketball / Coach:  
{ "vertical":"Basketball","role":"Coach","push\_logic":{"constraint\_gap\_weeks":2,"weekly\_digest":true,"channel":"slack:#mpb-coaches"} }

# 9 Seed Data Package

Place CSVs in `/seed/`: 5 players, 1 coach, 3 base drills (`base\_drill` table), 2 PDP rows, 5 dummy observations. Developer imports via Supabase dashboard or COPY command.

# 10 Basic UI & Auth Expectations

• Enable Supabase Auth (email + magic‑link) for coaches and players.  
• Generate default dashboard using Supabase React UI kit: list of upcoming sessions > drill links.  
• No custom design work beyond table grids and status colours.

# 11 Success Criteria (acceptance test)

– • Median CTI on seed data < 12 h (SQL view).

– • Duplicate drill insert with same constraint set performs UPSERT (no new row).

– • Twilio SMS arrives for IdeaScore ≥400 sample.

– • Soft archive cron marks inactive drill row (simulate by back‑dating link timestamps).

– • All captured seed data visible in dashboard via Auth.

# 12 Deliverables Folder Structure

/ddl/core\_schema.sql

/ddl/overlay\_basketball.sql

/ddl/triggers.sql

/functions/build\_modular\_drill.sql

/n8n-export/flows.json

/seed/\*.csv

/docs/README.md

# 13 Warranty

Fix any v1 blockers reported within 14 days of hand‑over at no extra charge.