



# Task Variables Map

Current, live use only. Every field here is confirmed either agent-settable through `create_photo_task` today, or computed and written by a live function.

— BASELINE PROD V2 · 2026-08-20 · AUGUST 2026

Source: `huint_supabase/migrations/20260820100000_baseline_prod_v2.sql` (single migration, current baseline, no forward migrations on top of it), cross-checked against `Huint_mcp/src/createTask.ts` and the RPC bodies it calls. Columns that exist in the DB but nothing writes today — `photo_notes`, `additional_details`, `priority`, `is_test`, `photo_guidance_url`, `webhook_*`, `metadata`, `location_display_snapshot`, `submissions.ip_lat/ip_lng` — are cut. Each was checked against every read/write across the whole migration.

**MCP input?** — **YES** an agent sets it via `create_photo_task/quote_task` · *derived* = set automatically from another input · *computed* = system-owned, never agent input.

## 01 / TASKS

# The Core Object

## IDENTITY &amp; OWNERSHIP

|               |       |          |                                                         |
|---------------|-------|----------|---------------------------------------------------------|
| id            | uuid  | computed | PK                                                      |
| operator_id   | uuid  | derived  | from the authenticated bearer                           |
| api_key_id    | uuid  | derived  | which API key authenticated the create, if API-key auth |
| agent_id      | text  | derived  | from X-Huint-Agent-Id header or key/JWT-derived default |
| agent_context | jsonb | derived  | always {"agent_id": "<agent_id>"}                       |
| agent_task_id | text  | YES      | agent's own idempotency key, 1–200 chars, required      |

## CONTENT / INSTRUCTIONS

|                |                          |          |                                                                                              |
|----------------|--------------------------|----------|----------------------------------------------------------------------------------------------|
| title          | text, ≤80 chars          | YES      | optional; auto-derived from tasker_instructions' first sentence when omitted                 |
| instructions   | text, ≤700 chars         | YES      | via tasker_instructions — shown verbatim to the tasker; renamed at the MCP→RPC boundary      |
| dont_do        | text                     | YES      | DB allows ≤500 chars; the MCP tool itself caps input at 120 chars today (tighter, UI-driven) |
| media_type     | text                     | computed | 1 live value: photo                                                                          |
| required_media | integer, 1–10, default 1 | YES      | legacy aliases required_photos/photo_count are silently mapped onto this                     |
| task_type      | text                     | computed | 1 live value: picture_required (the default) — drives the map-pin icon / capture flow        |

## 01 / TASKS, CONTINUED

## LOCATION &amp; REACH

|                                       |                               |         |                                                                                                                                          |
|---------------------------------------|-------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>location_mode</b>                  | text                          | YES     | via <code>location.mode</code> — 4 live values: anywhere, <code>fixed_location</code> , <code>city</code> , <code>zip_code</code>        |
| <b>location</b>                       | geography(Point,4326)         | derived | set only when <code>location_mode</code> = <code>fixed_location</code>                                                                   |
| <b>radius_meters</b>                  | integer, 30–2000, default 100 | YES     | via <code>location.radius_meters</code> — <code>fixed_location</code> only                                                               |
| <b>location_scope</b>                 | jsonb                         | derived | Apple-resolved scope object for <code>city/zip_code</code> (shape on page 08)                                                            |
| <b>friendly_location_name</b>         | text                          | derived | resolved place name, <code>fixed_location</code> only                                                                                    |
| <b>formatted_address</b>              | text                          | derived | resolved address, <code>fixed_location</code> only                                                                                       |
| <b>google_place_id</b>                | text                          | derived | set only when Google was the fallback geocoder                                                                                           |
| <b>location_provider</b>              | text                          | derived | 2 live values: apple, google                                                                                                             |
| <b>provider_place_id</b>              | text                          | derived | provider-native place id                                                                                                                 |
| <b>apple_map_item_identifier</b>      | text                          | derived | MapKit item id, when Apple returns one                                                                                                   |
| <b>location_resolution_confidence</b> | numeric 0–1                   | derived | v0 resolvers always write 1.0                                                                                                            |
| <b>delivery_mode</b>                  | text                          | derived | 2 live values: <code>location</code> (iff <code>fixed_location</code> ), else <code>global</code>                                        |
| <b>presence_required</b>              | boolean, default true         | derived | true iff <code>location_mode</code> = <code>fixed_location</code>                                                                        |
| <b>place_search_query</b>             | text, 2–120 chars             | YES     | via <code>place_selection.place_search_query</code> — phone searches this near the tasker after claim; binds the entry to an Apple place |

## ECONOMICS

|                           |                        |          |                                                                                                                                 |
|---------------------------|------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>bounty_cents</b>       | integer, ≥100          | YES      | \$1.00 floor                                                                                                                    |
| <b>platform_fee_cents</b> | integer                | computed | <code>round(bounty_cents * 0.10)</code>                                                                                         |
| <b>prize_cents</b>        | integer, ≥0, default 0 | YES      | operator-managed display-only grand prize; never escrowed, excluded from the hold, never shown to a tasker as expected earnings |

## 01 / TASKS, CONTINUED

## SLOTS / CONTEST

|                             |                            |          |                                                                                      |
|-----------------------------|----------------------------|----------|--------------------------------------------------------------------------------------|
| <b>max_taskers</b>          | integer, 1–1000, default 1 | YES      | a contest is <code>max_taskers &gt; 1</code> on the same object, not a separate type |
| <b>verified_photo_count</b> | integer, default 0         | computed | incremented by the verify path as photos verify; confirmed live (not vestigial)      |

## ELIGIBILITY GATES &amp; ENTRY QUESTIONS

|                              |                         |     |                                                                           |
|------------------------------|-------------------------|-----|---------------------------------------------------------------------------|
| <b>requires_x_account</b>    | boolean, default false  | YES | optional; 2 values: true/false                                            |
| <b>eligible_country_code</b> | text                    | YES | optional; see <b>Country code, in full</b> (page 09) — not a curated list |
| <b>entry_questions</b>       | jsonb array, default [] | YES | max 10 questions; shape on page 08                                        |

## LIFECYCLE / STATUS &amp; BOOKKEEPING

|                                    |                   |          |                                                                                                                                                          |
|------------------------------------|-------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>status</b>                      | enum              | computed | 7 live values, see Enums (page 10)                                                                                                                       |
| <b>deadline</b>                    | timestampz        | derived  | from <code>expires_in_hours: now() + hours</code> ; 1h floor, 30-day cap; omitted → no auto-expiry                                                       |
| <b>claimed_by / claimed_at</b>     | uuid / timestampz | computed | set on claim                                                                                                                                             |
| <b>claim_expires_at</b>            | timestampz        | computed | <code>claimed_at + 30 min</code>                                                                                                                         |
| <b>submitted_at</b>                | timestampz        | computed | starts the 15-min agent review window                                                                                                                    |
| <b>verification_deadline</b>       | timestampz        | computed | <code>submitted_at + 15 min</code> , flat for every task regardless of bounty (one function, no args, despite a stale column comment implying otherwise) |
| <b>completed_at / cancelled_at</b> | timestampz        | computed | terminal timestamps                                                                                                                                      |
| <b>created_at / updated_at</b>     | timestampz        | computed | bookkeeping                                                                                                                                              |

## 02 / TASK\_CLAIMS

# One Tasker's Attempt

|                                                                                      |                        |                                                                                  |
|--------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------|
| <b>id, task_id, tasker_id</b>                                                        | uuid                   | PK / FKs                                                                         |
| <b>status</b>                                                                        | text                   | 7 live values, see Enums (page 10)                                               |
| <b>claimed_at</b>                                                                    | timestampz             | —                                                                                |
| <b>expires_at</b>                                                                    | timestampz             | claimed_at + 30 min                                                              |
| <b>submitted_at / completed_at /<br/>abandoned_at / expired_at /<br/>rejected_at</b> | timestampz             | terminal-state timestamps, at most one populated                                 |
| <b>rejection_reason</b>                                                              | text                   | free-text, mirrored from submissions.rejection_reason<br>at verify time          |
| <b>rejection_reason_code</b>                                                         | enum                   | mirrors the submission's code, see Enums (page 10)                               |
| <b>rejection_notes</b>                                                               | text, ≤280 chars       | —                                                                                |
| <b>payout_released</b>                                                               | boolean, default false | CHECK: can only be true when status = 'verified'                                 |
| <b>payout_released_at</b>                                                            | timestampz             | —                                                                                |
| <b>device_hash</b>                                                                   | text                   | fingerprint captured at claim time; every submission's<br>device_hash must match |
| <b>attest_key_id</b>                                                                 | text                   | Apple App Attest key id active at claim time                                     |
| <b>notified_expiring_soon_at</b>                                                     | timestampz             | claim-expiry-warning push dedup                                                  |
| <b>location_verification</b>                                                         | jsonb                  | Apple structured-address match evidence captured at<br>claim                     |
| <b>created_at</b>                                                                    | timestampz             | —                                                                                |

## 03 / SUBMISSIONS

# The Photo Evidence

One row per photo (media\_index 1–10 within a claim).

| id, task_id, tasker_id, claim_id                                                | uuid                     | PK / FKs                                                                           |
|---------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|
| media_index                                                                     | integer, 1–10, default 1 | which required photo this is                                                       |
| media_path / media_url                                                          | text                     | storage path / served URL                                                          |
| mime_type                                                                       | text, default image/jpeg | —                                                                                  |
| file_size_bytes                                                                 | integer                  | —                                                                                  |
| capture_lat / capture_lng / capture_heading / altitude_meters / accuracy_meters | double precision         | device-reported capture geometry, written from the submitted media payload         |
| capture_timestamp                                                               | timestamptz, not null    | —                                                                                  |
| device_hash                                                                     | text, not null           | must equal the claim's device_hash                                                 |
| gps_verified                                                                    | boolean                  | —                                                                                  |
| gps_distance_meters                                                             | double precision         | distance from task location                                                        |
| timestamp_verified / hash_verified                                              | boolean                  | —                                                                                  |
| location_verification                                                           | jsonb                    | Apple structured-address evidence                                                  |
| vision_checked / vision_checked_at                                              | boolean / timestamptz    | whether the Vision Gate AI pre-check ran                                           |
| vision_confidence                                                               | double precision, 0–1    | —                                                                                  |
| vision_result                                                                   | jsonb                    | raw AI check output                                                                |
| status                                                                          | enum                     | 3 live values, see Enums (page 10)                                                 |
| rejection_reason                                                                | text                     | free-text, written by the verifier (Vision Gate or operator agent)                 |
| rejection_reason_code                                                           | enum                     | the 5-code closed set; GPS/device/timestamp/photo-count hard-fails never land here |
| rejection_notes                                                                 | text, ≤280 chars         | operator-agent free note on reject                                                 |
| is_flagged                                                                      | boolean, default false   | —                                                                                  |
| reviewed_by / reviewed_at                                                       | uuid / timestamptz       | human reviewer, when applicable                                                    |
| verified_at / created_at                                                        | timestamptz              | —                                                                                  |

## 04 / TASK\_ENTRIES

# Entry Answers & Place Selection

Only populated when a task carries entry\_questions and/or place\_selection. Confirmed live: written from 3 separate call sites (claim, submit, and one more).

|                                                                           |                          |                                                                     |
|---------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------|
| id, task_id, tasker_id, claim_id, submission_id                           | uuid                     | PK / FKs; submission_id null while entry_state = prepared           |
| entry_state                                                               | text, default prepared   | 3 live values: prepared, submitted, verified                        |
| answers                                                                   | jsonb object, default {} | keyed by entry_questions[].id                                       |
| selected_place_provider                                                   | text                     | 2 live values: apple, google — or all 5 place columns null together |
| selected_place_provider_id / selected_place_name / selected_place_address | text                     | —                                                                   |
| selected_place_point                                                      | geography(Point,4326)    | —                                                                   |
| capture_to_place_max_distance_meters                                      | double precision         | the 804.672 m (0.5 mi) gate when place_selection is set             |
| accuracy_result / area_result                                             | jsonb                    | verification-outcome snapshots                                      |
| x_user_id_snapshot / x_handle_snapshot                                    | text                     | only when requires_x_account                                        |
| consent_version_snapshot / consent_at_snapshot                            | text / timestamptz       | —                                                                   |
| location_verification                                                     | jsonb                    | —                                                                   |
| prepared_at / submitted_at / verified_at / created_at / updated_at        | timestamptz              | —                                                                   |

05 / ENTRY\_QUESTIONS · 06 / LOCATION

# The Sub-Shapes

ENTRY\_QUESTIONS — MAX 10 ITEMS, DISCRIMINATED ON TYPE

|                                     |                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>single_select / multi_select</b> | { id, prompt (≤200 chars), type, required, options: [{ value, label (≤120 chars) }], 1-20 items, unique values } |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|

|                   |                                             |
|-------------------|---------------------------------------------|
| <b>short_text</b> | { id, prompt (≤200 chars), type, required } |
|-------------------|---------------------------------------------|

id pattern: `^[A-Za-z][A-Za-z0-9_-]{0,63}$`, unique within the array.

CREATE-TIME LOCATION INPUT — DISCRIMINATED ON MODE

|                 |           |
|-----------------|-----------|
| <b>anywhere</b> | no fields |
|-----------------|-----------|

|                       |                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>fixed_location</b> | { location, radius_meters (30-2000, default 100) } — location is either a <b>simple</b> form (address and/or place_name and/or lat/lng, resolved server-side) or a pre- <b>resolved</b> form (full payload from a prior resolve_location call) |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |                                            |
|-------------|--------------------------------------------|
| <b>city</b> | { city (1-120), state_code, country_code } |
|-------------|--------------------------------------------|

|                 |                                      |
|-----------------|--------------------------------------|
| <b>zip_code</b> | { zip_code (5-digit), country_code } |
|-----------------|--------------------------------------|

STORED / NORMALIZED

fixed\_location stores a full resolved payload — { lat, lng, friendly\_location\_name, formatted\_address, location\_provider, provider\_place\_id, apple\_map\_item\_identifier?, location\_resolution\_confidence, google\_place\_id? }. city/zip\_code store an Apple **scope** object instead:

```
location_scope: { schema_version: 1, provider: "apple", provider_place_id, country_code, display_name, map_label, center: {lat,lng}, display_region: {south_latitude, west_longitude, north_latitude, east_longitude}, type, state_code, city }
```

(or zip\_code in place of city for the zip variant). Immutable once resolved — quote/create resolve city/ZIP input to this before activation.

## COUNTRY CODE, IN FULL

# Two Fields, No Curated List

**01** **Location country\_code** (fixed\_location's address input isn't affected; only city/zip\_code modes take this) — hard-locked to **exactly one live value: "US"**. The Zod schema literal-matches US only; nothing else is accepted. This is a true closed set of one, not a placeholder — Huint's location resolution only covers the US today.

**02** **eligible\_country\_code** (the task's tasker-eligibility gate) — **not a curated list**. Both this field and the tasker's own taskers.country\_code are format-checked only (`^[A-Z]{2}$`, uppercase ASCII letters) at the database level; eligibility is decided by simple string equality between the two (`private.tasker_eligibility_verdict`). An operator can type any syntactically-valid 2-letter code (e.g. CA, GB) and it will be stored and matched — there's no server-side check against a real ISO-3166 list or against where Huint actually operates. If the iOS app's own country picker restricts what a tasker can set on their profile, that would be the only real-world limiter, and it lives outside this backend/MCP surface.

Related: state\_code in the location-scope input is likewise format-checked only (`^[A-Z]{2}$`) — real validation happens implicitly when Apple's geocoder fails to resolve a bogus state.

07 / ENUMS • 08 / TASK\_BLOCKLIST

# Complete, Live Values Only

## ENUMS

|                                              |                                                                                                                                                                                  |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>task_status</code> (7)                 | open, claimed, submitted, verified, rejected, expired, cancelled                                                                                                                 |
| <code>task_claims.status</code> (7)          | active, submitted, verified, rejected, abandoned, expired, released_device_change                                                                                                |
| <code>submission_status</code> (3)           | pending, verified, rejected                                                                                                                                                      |
| <code>submission_rejection_reason</code> (5) | unclear, wrong_subject, framing_or_angle, suspected_reuse, policy_violation — agent-judgment only; GPS/device/timestamp/photo-count fail automatically and never touch this enum |
| <code>task_blocklist.reason</code> (5)       | held_too_long, hand_abandoned, rejected, reported, admin_block                                                                                                                   |

## TASK\_BLOCKLIST — WHO CAN'T RE-CLAIM A GIVEN TASK

|                                           |            |                                         |
|-------------------------------------------|------------|-----------------------------------------|
| <code>task_id / tasker_id</code>          | uuid       | composite scope                         |
| <code>reason</code>                       | text       | 5 live values, in the enums table above |
| <code>claim_id</code>                     | uuid       | the claim that caused the block, if any |
| <code>created_at / acknowledged_at</code> | timestampz | —                                       |

A reject blocks one tasker from one task — it doesn't touch their account standing anywhere else.

Huint is a product of Nanu Connect LLC, doing business as Huint Labs. Companion to the Huint MCP Reference. Prepared August 2026.