# **Lean pre-coding sheet — 84/89**

**Component:** crates/vm\_app/ui/package.json (UI workspace manifest)

## **1) Goal & success**

**Goal:** Define UI package metadata and scripts so the desktop app ships with **bundled, offline assets** (no external fonts/styles/tiles), and produces artifacts that align with report rules (presentation-only, one decimal).

**Success:** npm run build creates a local bundle consumed by Tauri with **no network fetches** at run-time; versions are pinned/locked for reproducible builds.

## **2) Scope**

**In:** name/version/private, scripts (build, dev, lint, typecheck), dependency pins for the UI (vite, types), and explicit note that **all runtime assets are local** (MapLibre tiles/styles, fonts).

**Out:** Back-end commands (Tauri main.rs) and security posture (lives in tauri.conf.json).

## **3) Inputs → outputs**

**Inputs:** UI source under ui/ plus **local** map assets (style.json/mbtiles) to be referenced relatively.

**Outputs:** Static assets folder consumed by Tauri packaging; **no external assets** in reports/UI.

## **4) Entities/Tables (minimal)**

## **5) Variables (only ones used here)**

## **6) Functions (scripts only)**

"build" — run vite build to produce a static bundle; it must reference **only local** assets.

"dev" — local preview; should still avoid remote CDNs.

"lint" / "typecheck" — consistency; no effect on determinism.

## **7) Algorithm outline (practical steps)**

Pin UI deps; commit lockfile for reproducible builds.

Ensure imports for fonts/styles/MapLibre **point to packaged files** (no URLs).

Build static bundle; Tauri packages it without any updater/telemetry.

## **8) State flow (very short)**

npm run build → emits static UI → Tauri bundles UI and **local** assets → backend commands read/write canonical artifacts.

## **9) Determinism & numeric rules**

UI must **not** alter engine outputs; percentages shown with **one decimal**; **offline-only** assets.

## **10) Edge cases & failure policy**

If any dependency pulls remote assets at build or runtime, fail build and replace with bundled copies.

If a page requests remote fonts/styles/tiles, treat as a config error (must be local).

## **11) Test checklist (must pass)**

Build succeeds with **no network**; output bundle references only local paths.

Reports render with **one-decimal** precision; footers & IDs come solely from Result/RunRecord.