

FlipTrybe Database Migration Plan

Governance (role switching, listing caps) + MoneyBox tables | Effective date: 2026-02-04

Scope

- Add role change request tracking with admin approval.
- Enforce listing caps by role at API layer (no schema change required, but optional counters can help).
- Add MoneyBox tables (accounts + ledger) and new ledger event types.

New tables

| Table | Purpose | Key fields |
|----------------------|----------------------------------|--------------------------------------------------------------------------|
| role_change_requests | Admin-mediated role switching | user_id, current_role, requested_role, status, admin_id, created_at |
| moneybox_accounts | One active savings box per user | user_id, role, tier, status, autosave_percent, lock_start_at, created_at |
| moneybox_ledger | Append-only moneybox audit trail | moneybox_id, type, amount, meta_json, created_at |

Indexes and constraints

- role_change_requests: enforce only one pending request per user (unique constraint or service-level guard).
- moneybox_accounts: unique active moneybox per user (one row with ACTIVE status, or unique constraint on (user_id, status) where status in ACTIVE states).
- moneybox_ledger: index on (moneybox_id, created_at).

Rollout steps (safe)

- 1) Create migration: add new tables and enums.
- 2) Deploy backend with endpoints gated by role checks and feature flags if needed.
- 3) Backfill: none required initially (MoneyBox starts empty).
- 4) Validate locally: run smoke test twice back-to-back.
- 5) Validate staging/Render: confirm /api/health and that demo endpoints are blocked in production.
- 6) Enable UI: ship dashboard widgets after backend endpoints are stable.

Data integrity and idempotency

- MoneyBox sweeps occur at commission credit time and must be atomic with wallet credit creation.
- Maturity processing must be idempotent (re-running does not double-credit bonuses).
- Liquidation on suspension/ban must be idempotent (re-running does not double-transfer).
- Ledger entries are append-only; no edits or deletes.