**✅ Final Implementation Summary — Turkish-Only Verification & End-to-End Pipeline Activation**

We have successfully completed and validated the full **discovery → classification → verification → frontend surfacing** pipeline for the Turkish Diaspora App.

**🧭 Scope of Work**

This story focused on enforcing **Turkish-only verification**, connecting all existing components in the pipeline, and ensuring verified locations are automatically visible on the frontend without any manual filtering.

**✅ Key Deliverables**

**1. Worker: verify\_locations.py**

* Automatically loads environment via python-dotenv
* Uses existing services:
  + ClassifyService.classify() for AI-based Turkish business classification
  + ai\_validation.validate\_classification\_payload() for schema validation
  + AuditService.log() for complete audit trail
* Promotes CANDIDATE → VERIFIED only if classification result = action: "keep"
* Non-Turkish businesses remain CANDIDATE and are logged accordingly
* Idempotent, chunk-based, and dry-run compatible

**2. Turkish-Only Enforcement**

* Turkish classification enforced at the worker level — no schema or API changes required
* API now implicitly returns **only Turkish businesses** (those marked VERIFIED)
* All non-Turkish candidates excluded automatically

**3. API & Frontend Alignment**

* Removed only\_turkish parameter from frontend and backend
* API serves VERIFIED (Turkish) locations directly
* Frontend filters simplified — Turkish mode now informational (“Alleen Turks (automatisch)”)
* Verified Turkish businesses now immediately visible on map and list views

**4. Documentation**

* Created comprehensive runbook: Docs/verify-locations-runbook.md
  + Environment setup (.env autoloading)
  + CLI commands for batch verification
  + SQL validation queries
  + API & UI smoke tests
  + Troubleshooting and success criteria

**🧩 End-to-End Flow Verified**

| **Stage** | **Component** | **Status** |
| --- | --- | --- |
| Discovery | discovery\_bot.py (OSM) | ✅ Inserted CANDIDATE records |
| Classification | ClassifyService (AI) | ✅ Turkish detection functional |
| Validation | ai\_validation.py | ✅ Payloads validated |
| Promotion | verify\_locations.py | ✅ CANDIDATE → VERIFIED (Turkish-only) |
| Auditing | audit\_service.py | ✅ Full trace of actions |
| API | /api/v1/locations | ✅ Returns VERIFIED (Turkish) |
| Frontend | React/Vite app | ✅ Displays verified Turkish businesses |

**📊 Outcome**

* Turkish-only verification logic integrated successfully
* Full pipeline operational (Discovery → Verification → Display)
* Verified Turkish businesses now visible on frontend without manual filtering
* No schema changes or new dependencies introduced
* System remains idempotent and production-safe

**Status:** ✅ **Done**