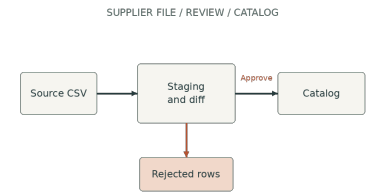


DATA ENGINEERING

Supplier catalog imports

Review price and part changes before a supplier file updates the catalog.



The reviewed batch commits as one transaction

PROPOSED ARCHITECTURE

Import design brief; source formats to confirm

THE PROBLEM

Purchasing receives CSV files with changed column names, duplicate part numbers, and mixed price formats. A bad import can overwrite usable records. This tool stages each file, shows a row-level diff, and applies an approved batch in one transaction.

SCOPE

- Use a Python parser and PostgreSQL staging tables; preserve the source file and mapping version.
- Build a review screen for added, changed, rejected, and missing items. Missing rows never imply deletion.
- Commit approved changes atomically; identify repeated batches by supplier and file digest.

PLANNED DELIVERABLES

- Import service, review UI, and schema migrations
- Malformed-file fixtures and transaction-level integration tests
- Local setup, sample supplier files, and an operator guide

CONSTRAINTS

Identity

Supplier ID plus supplier part number

Values

Explicit currency, decimal prices, and unit mappings

Approval

Catalog changes require a reviewer

Scope

CSV inputs; one catalog and a defined schema

VERIFICATION PLAN

Bad rows

Reject ambiguous keys and invalid values without changing the catalog.

Retries

Interrupt the commit path, then resubmit; no row may be applied twice.

Concurrent edits

Reject approval if the catalog changed since the reviewed snapshot.

NEXT STEP

Agree on the catalog schema and collect representative supplier files.

First release covers one catalog and CSV files. Supplier API connections and unattended imports are outside this scope.