

Bancapp Automation Pvt. Ltd. — Coding Challenge: Reconciliation Intelligence

Duration: 45 minutes | Language: Python (pandas) | Deliverables: Code + Reports

Dataset provided for reconciliation scenarios :

- 1) API/PG vs Bank (two-way)

Objectives

- Implement robust reconciliation pipelines using pandas
- Design matching rules; identify mismatches and categorize them
- Produce clear, auditable summary reports
- Demonstrate data quality checks, exception tagging, and insights

DATASET 1: API/PG vs Bank (Two-way)

Files: dataset_api_bank/api_source.csv, dataset_api_bank/bank_settlement.csv

Columns (API): txn_id, utr, amount, txn_date, status

Columns (Bank): txn_id, utr, amount, txn_date, status, settlement_date

Tasks:

1. Ingest both files, standardize dtypes; ensure date parsing
2. Create exact-match rule on (utr, amount, txn_date)
3. Categorize recons:
 - exact_match
 - amount_mismatch
 - status_mismatch
 - missing_in_bank / missing_in_api
4. Output CSVs for each category + a summary.csv with counts and match rate
5. Compute TAT distribution: (settlement_date - txn_date) in days for matched records
6. Insights: Top 3 causes of mismatches you observe