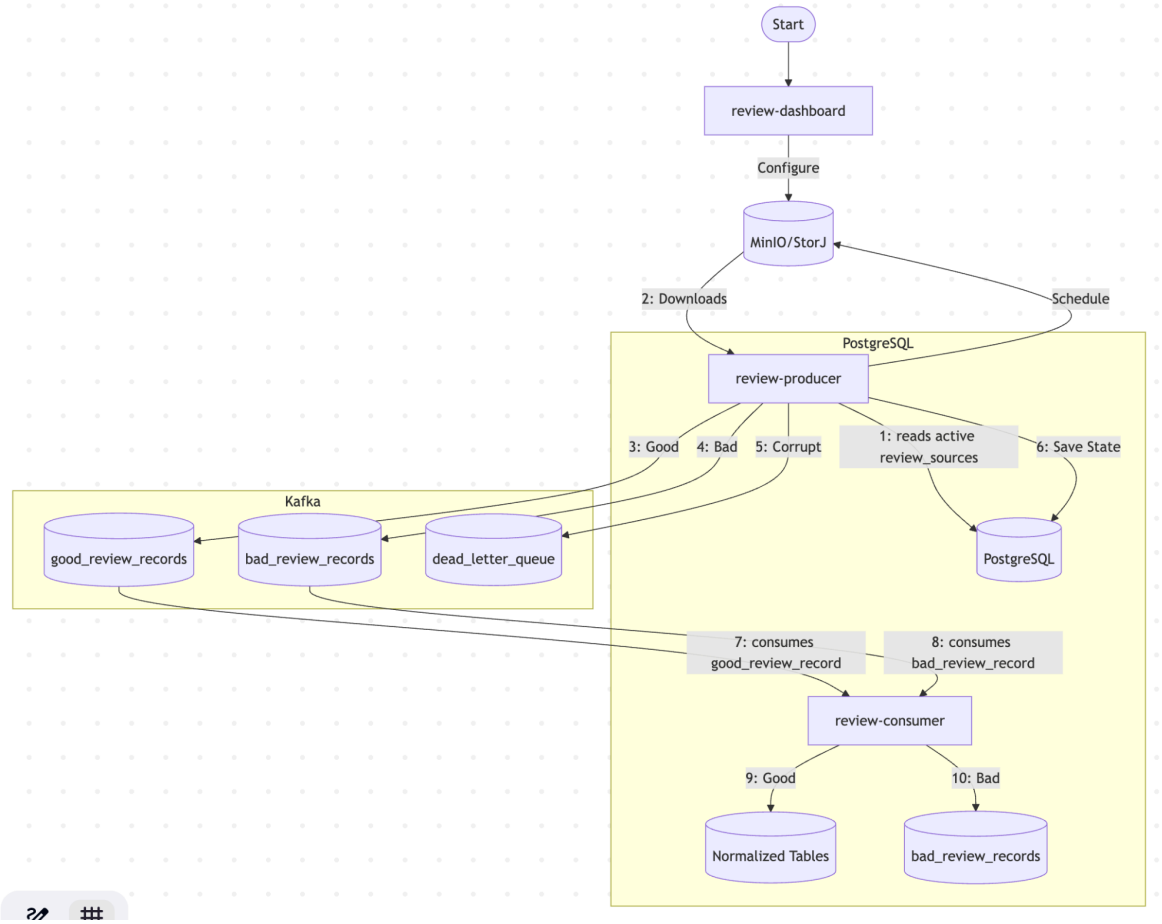
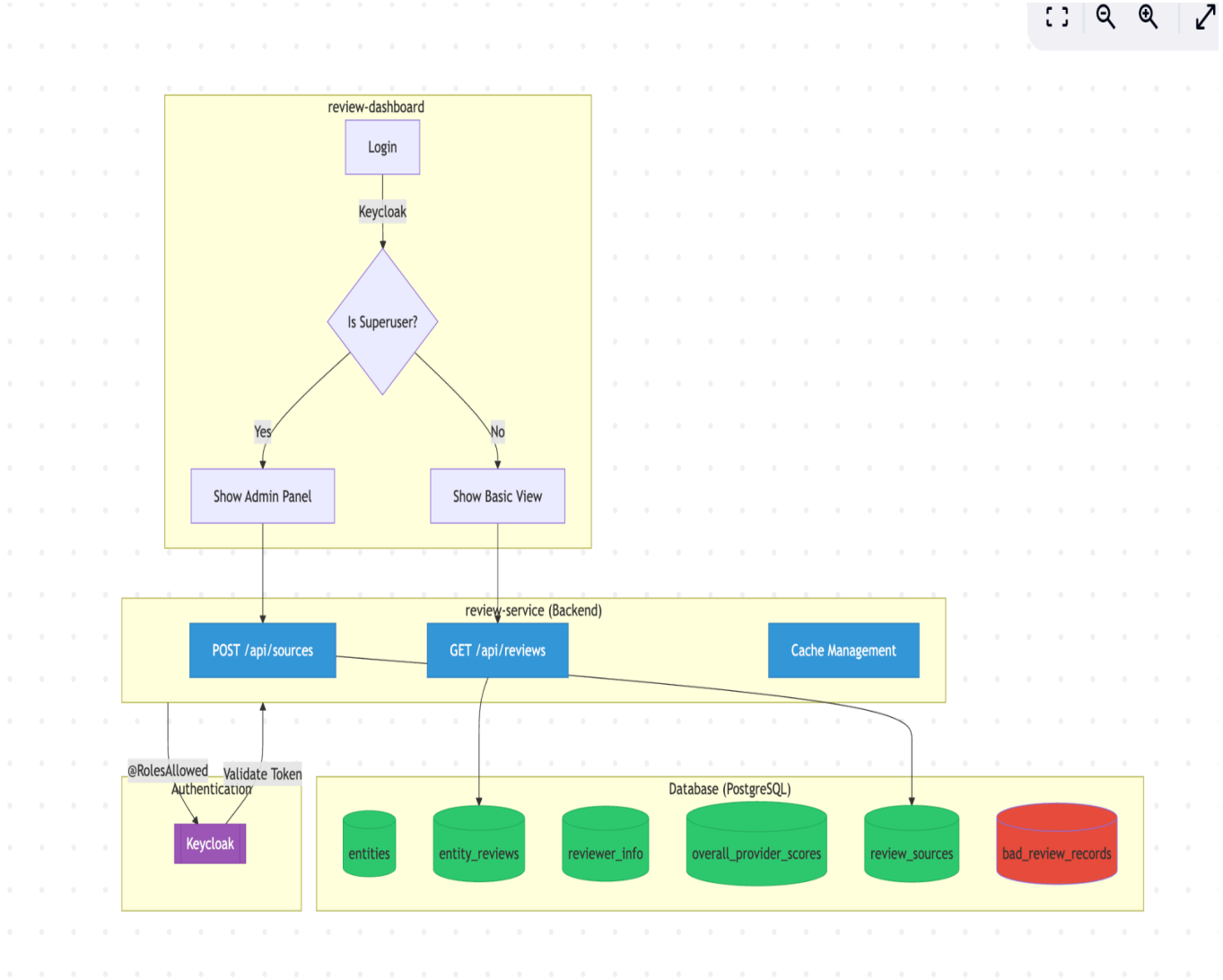
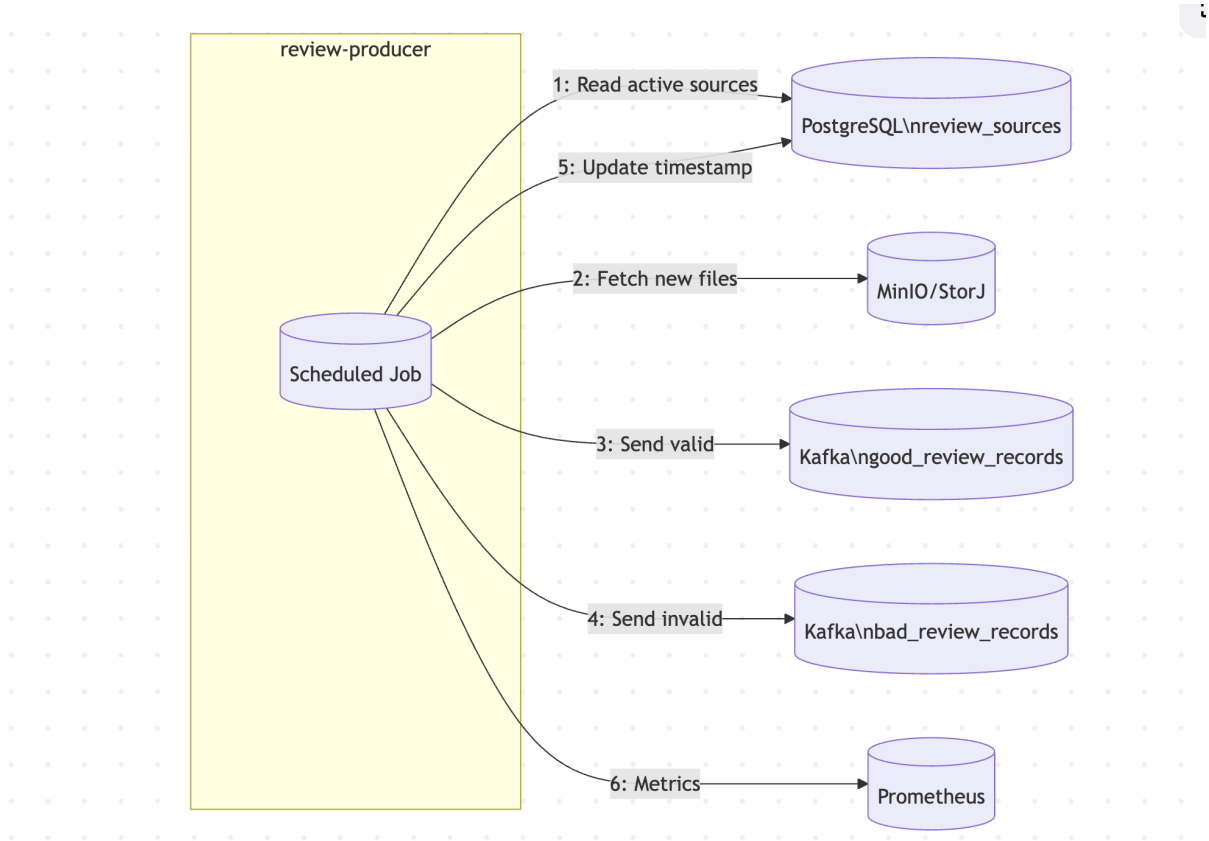
Flowchart


Start
review-dashboard
Configure
MinIO/StorJ
2: Downloads
Schedule
PostgreSQL
review-producer
3: Good
4: Bad
5: Corrupt
1: reads active review_sources
6: Save State
Kafka
good_review_records
bad_review_records
dead_letter_queue
PostgreSQL
7: consumes good_review_record
8: consumes bad_review_record
review-consumer
9: Good
10: Bad
Normalized Tables
bad_review_records

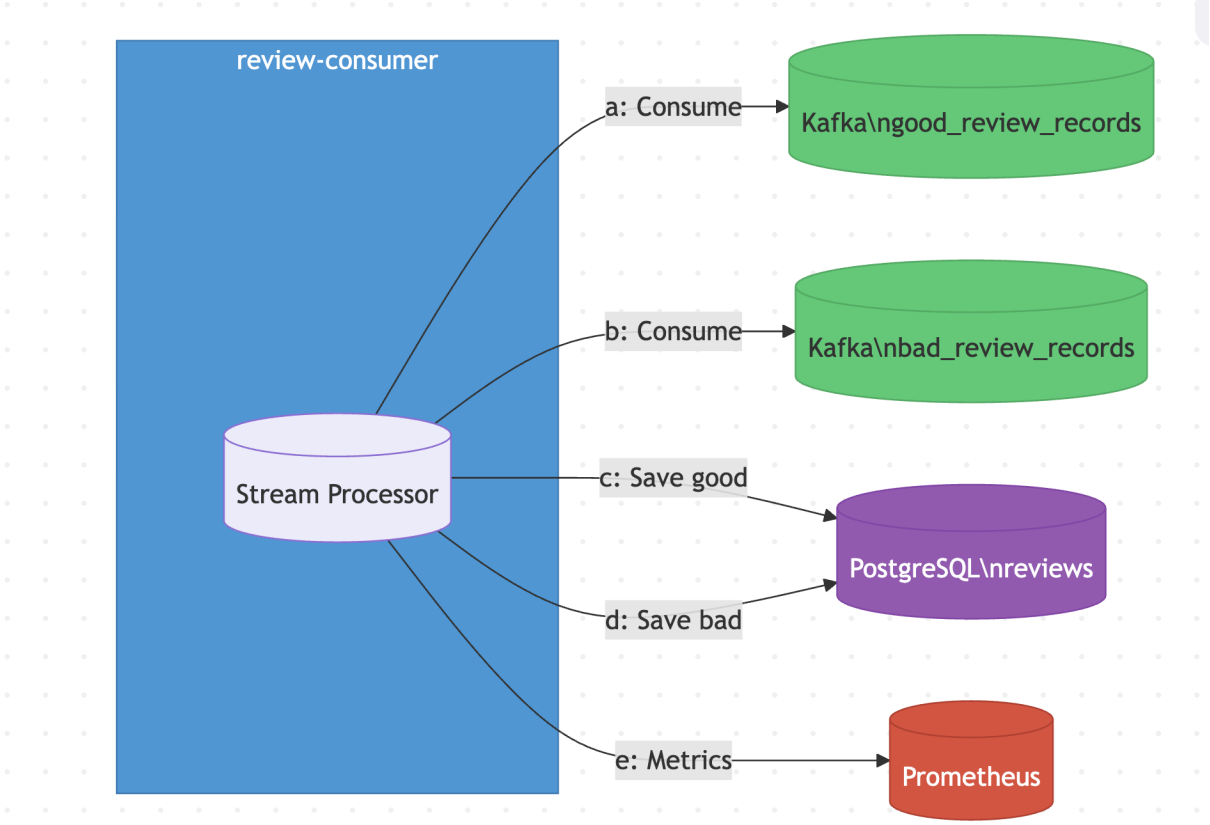
Component review-dashboard



Component review-producer



Component review-consumer (Stream processor)



Component review-python (contains utilities for testing)

python

Copy Download

```
# review-python/
│
├── generate_platform_reviews.py   # Reads sample.jl → generates → output/
│   ├── read_template()
│   ├── generate_reviews()         # Creates both valid/invalid records
│   └── write_jl()
│
├── distribute_reviews.py          # Uploads to storage
│   ├── select_storage()           # Random MinIO/StorJ selection
│   ├── upload_to_minio()
│   └── upload_to_storj()
│
├── test_kafka_producer.py         # Test harness
│   ├── produce_good_record() → good_review_records
│   └── produce_bad_record() → bad_review_records
│
└── check_kafka_messages.py        # Verification
    ├── consume_messages()
    └── validate_schema()

# External:
sample.jl → MinIO/StorJ → Kafka
```