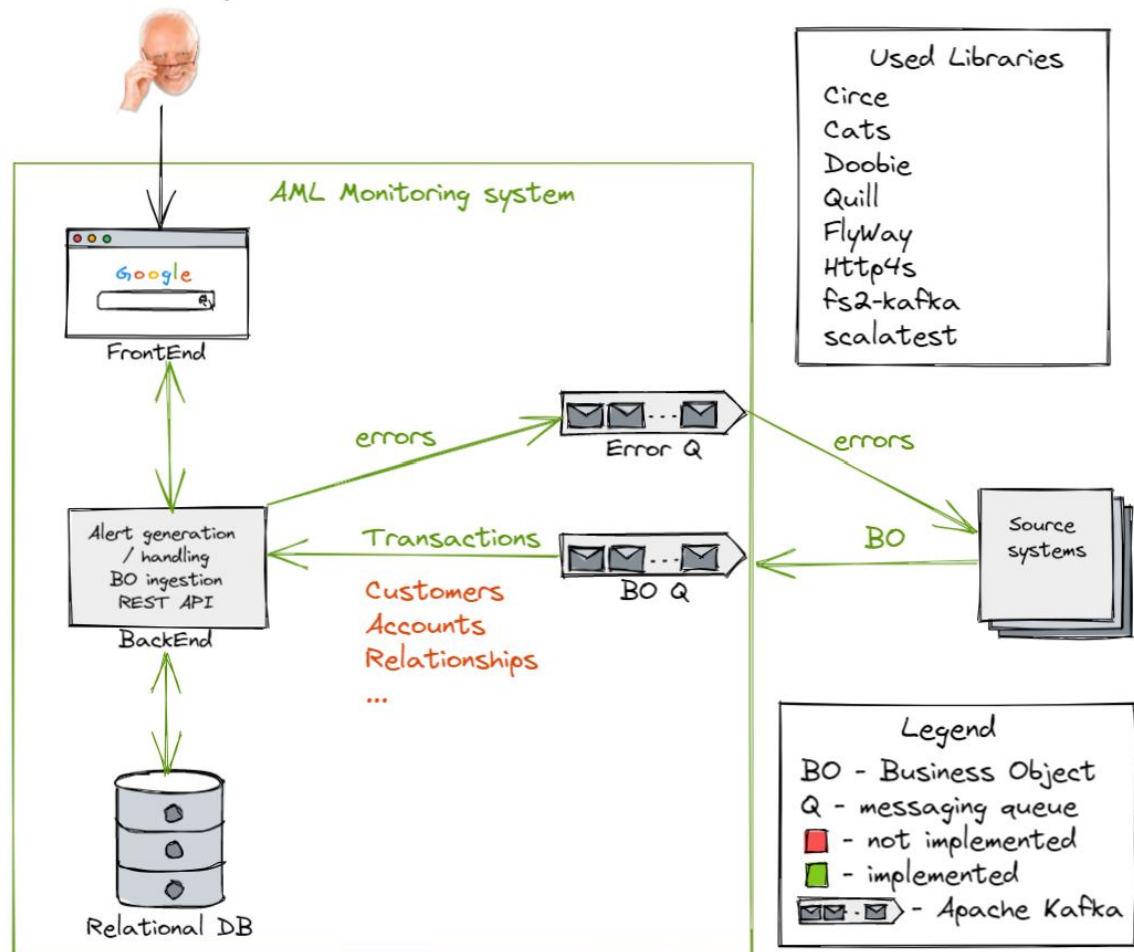


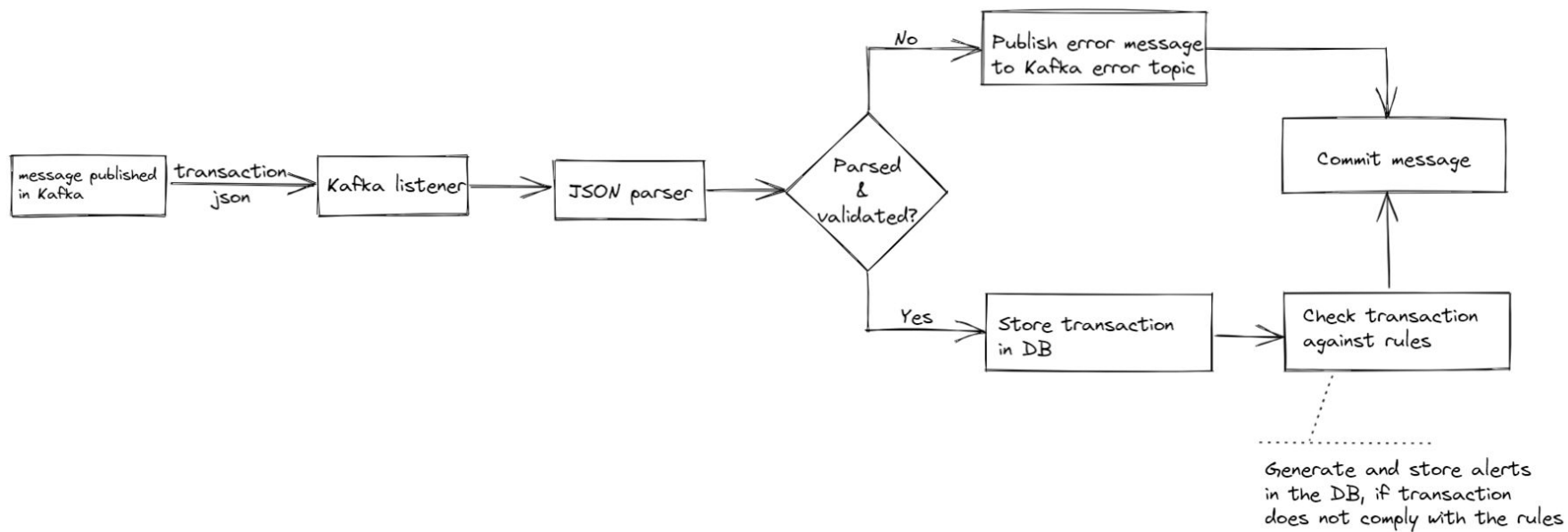


# **COURSE PROJECT PRESENTATION**

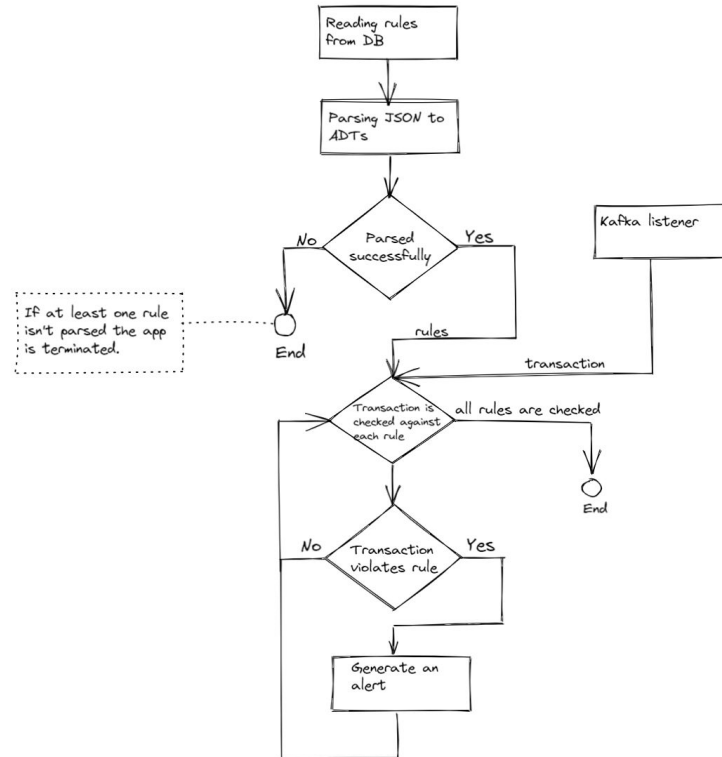
# AML Investigator



## Transaction Ingestion Flow



# AML Rule checker flow



# Scenario 1 - Unexpected behavior

Description: Generate an alert, when incoming/outcoming(s) transaction Amount is bigger at least x times then average amount of transactions in the last y days.

Parameters: x - 3

y - 30 days

Rule Model ->

```
{
  "UnexpectedBehavior": {
    "timesBigger": 3,
    "duration": "30 days"
  }
}
```

Test case:

Account FR1420041010050500013 has 3 debit transactions of 1000 eur each during the december of 2021.

Debit transaction worth 4000 eur is imported into AML system for the account FR1420041010050500013.

Alert should be generated, since  $4000/1000 > 3 = \text{true}$ .

## Scenario 2 - UndeclaredCountry

Description: Generate an alert, when incoming/outcoming(s) transaction is sent/received from a Country, which is either not declared in the Questionnaire of the customer or the amount of transactions from/to the same customer is bigger than stated in the Questionnaire in the last x Days.  
Also transaction amount should be bigger than y.

Parameters: x - 30 days  
y - 1000

Rule Model ->

```
{
  "And": {
    "left": {
      "UndeclaredCountry": {
        "duration": "30 days"
      }
    },
    "right": {
      "TransactionExceeds": {
        "amount": 1000
      }
    }
  }
}
```

Test case:

1. Customer 000001 has a questionnaire, where it is stated that customer expects 10k Monthly Turnover with France.
2. Customer has two accounts: AT611904300234573201 and AT611904300234573202.
3. Debit transaction to France worth 5.1k is imported. No alert should be generated.
4. Credit transaction from France worth 5k is imported. Alert should be generated.

## Conclusion

