



# Kafka Streams

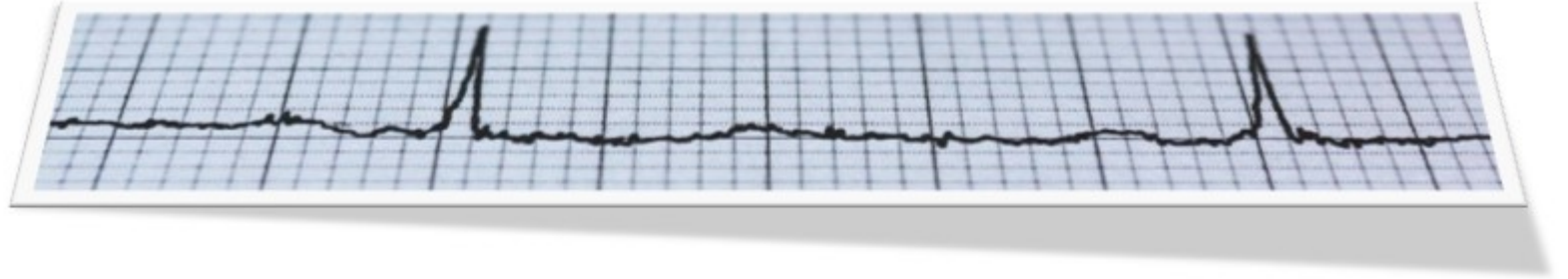
## Real-time Stream Processing

by

**LEARNING JOURNAL**



# Events are everywhere



## First Step



### Retail Business

- Orders
- Returns
- Shipment



### Banking

- Service Request
- Stock Ticks
- Trade Transactions



### Online Portal

- Click Event
- Ad Impression
- Impression Click





Identifying & Modeling Events

Stream?

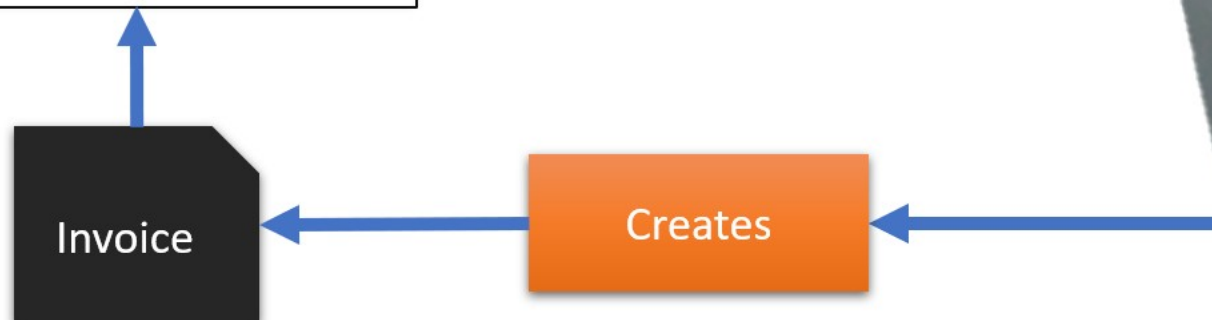
Processing Events

Transporting Events

How to Apply  
Events?

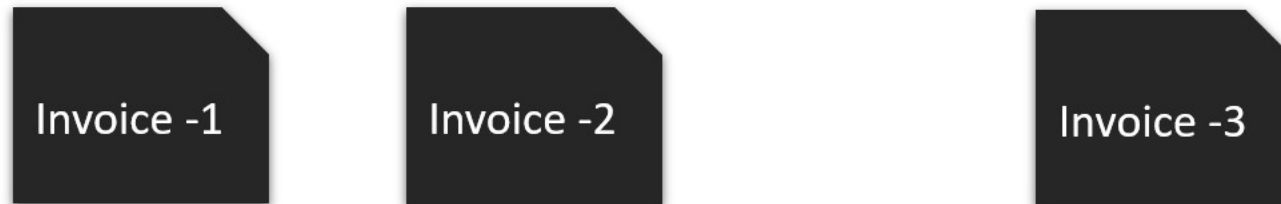
# Identifying & Modeling Events

```
{
  "InvoiceNumber":123456,
  "CreatedTime":246744579753,
  "StoreID":"STR1534",
  "PosID":"POS364",
  "CashierID":"OAS898",
  "CustomerType":"NONPRIME",
  "CustomerCardNo":"3006055636",
  "DeliveryType":"HOME-DELIVERY",
  "DeliveryAddress":{
    "AddressLine":"7418 Dolor St.",
    "City":"Nagpur",
    "State":"Maharashtra",
    "PinCode":"710782",
    "ContactNumber":"3018429913"
  },
  "InvoiceLineItem":{
    "ItemCode":698,
    "ItemDescription":"Meat grinder",
    "ItemPrice":1250,
    "ItemQty":1
  }
}
```

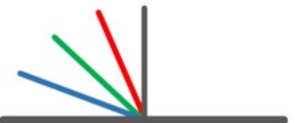


POS Operator

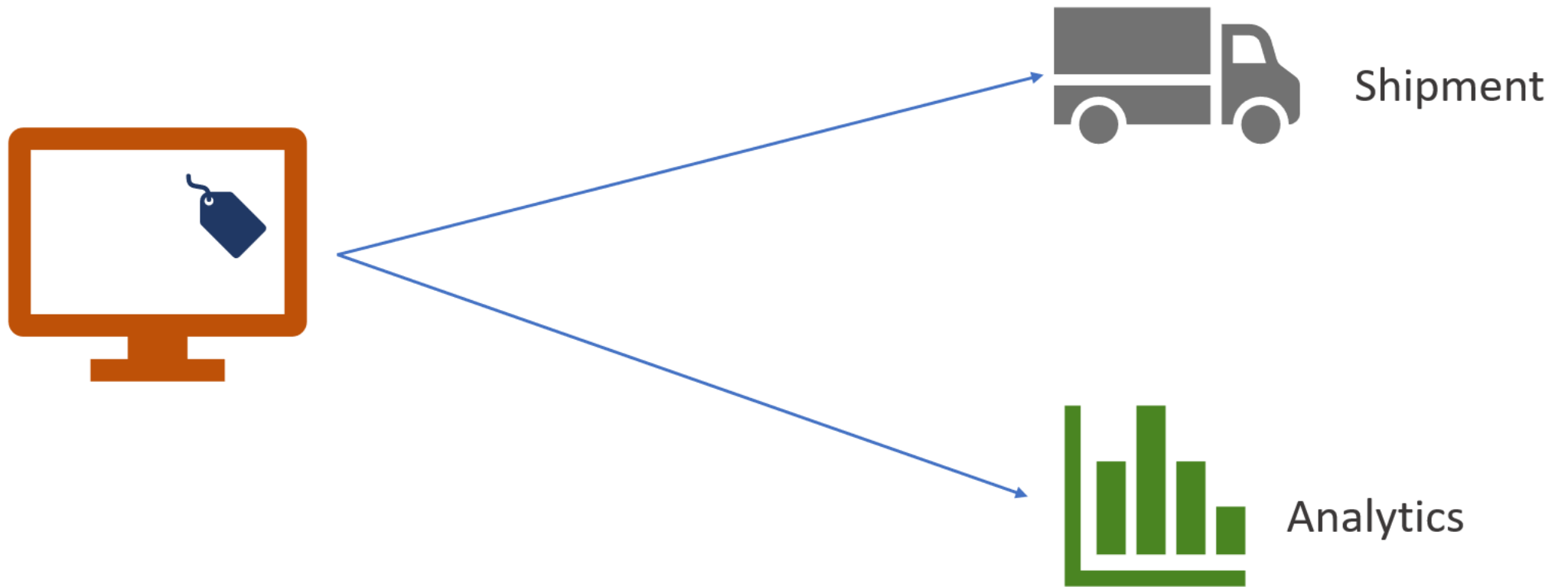
# Stream of Events



POS Operator



# Transporting Events





# Transporting Events

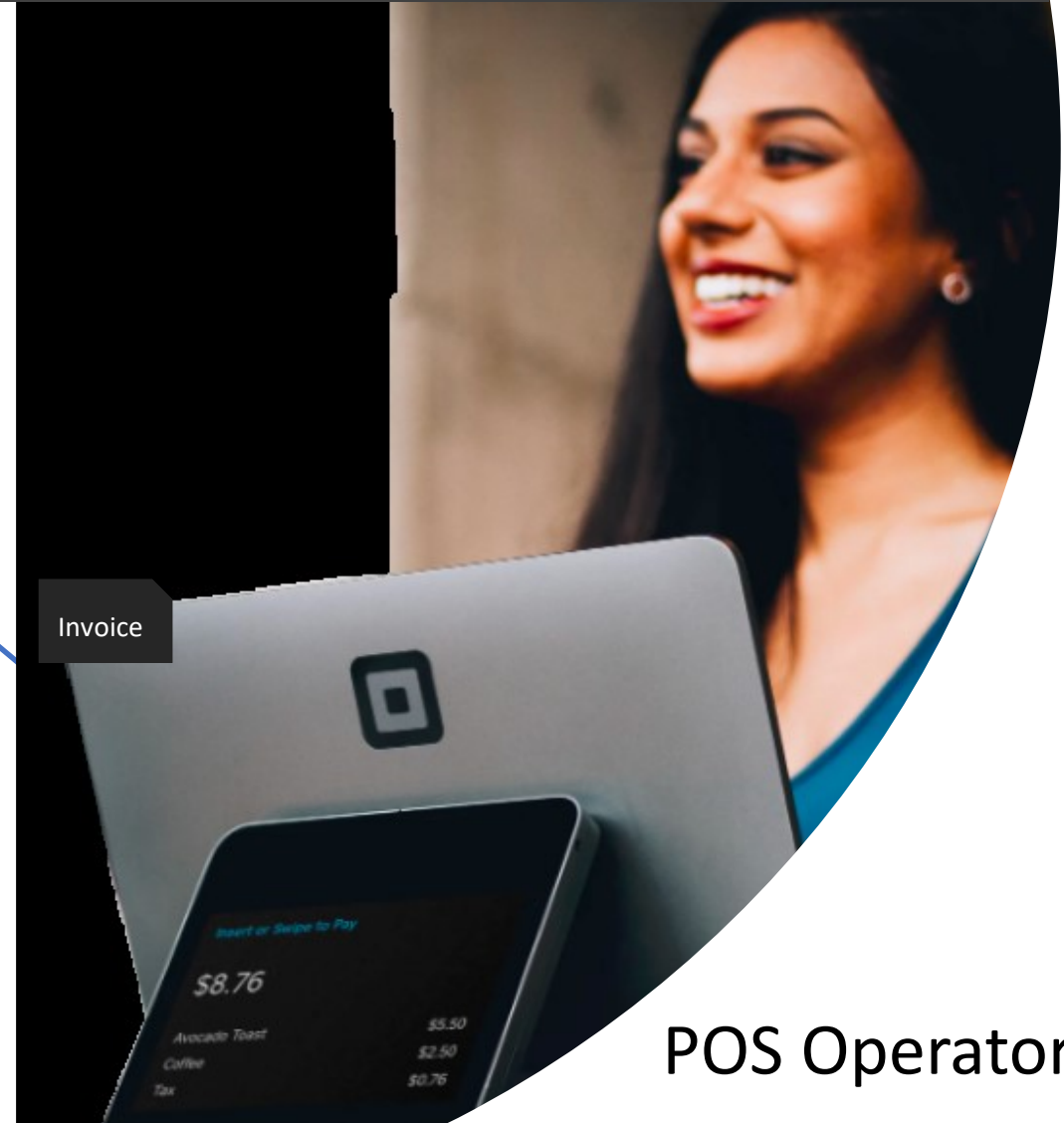
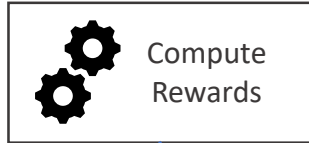
Event Producers



Event Consumers



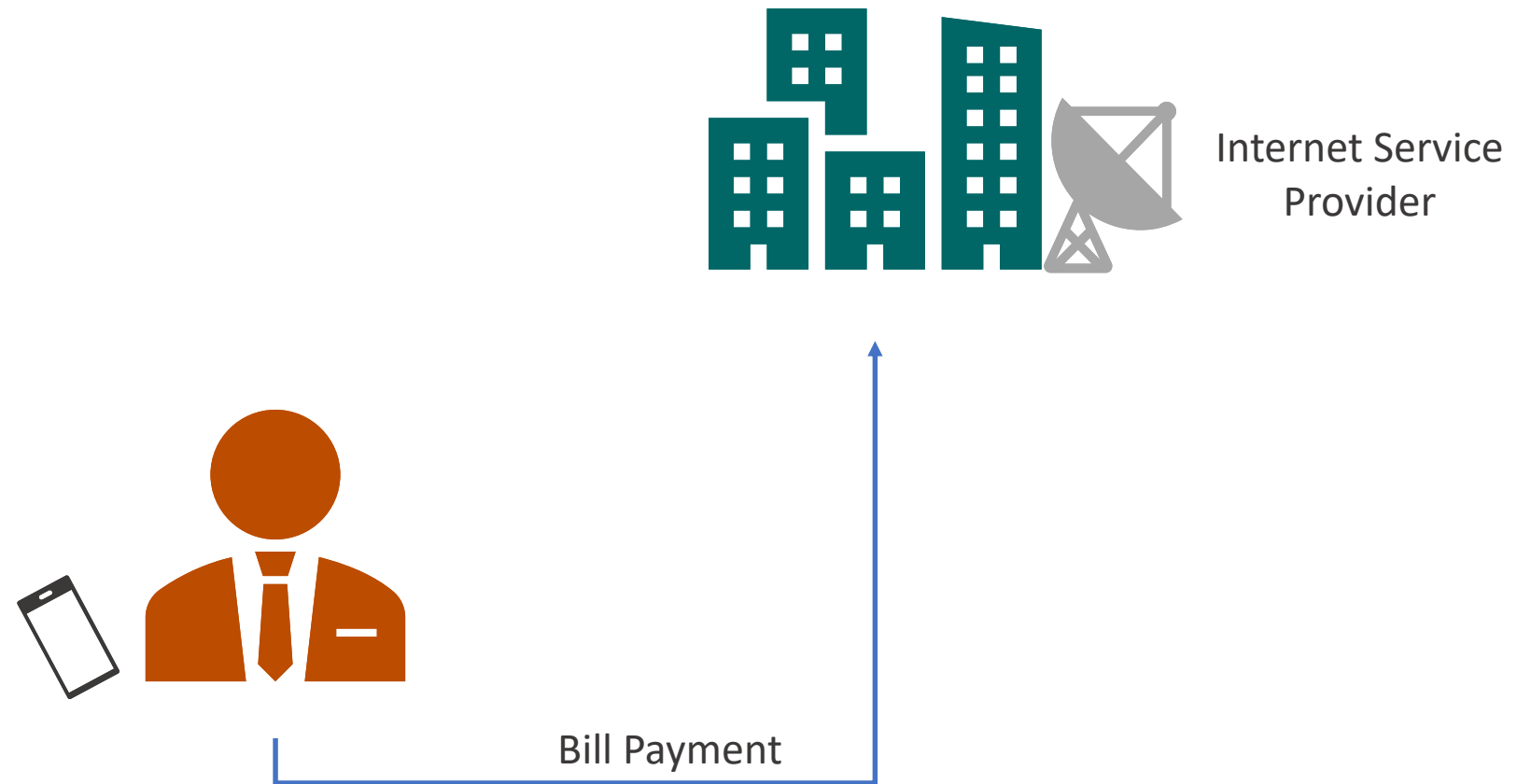
# Processing Events



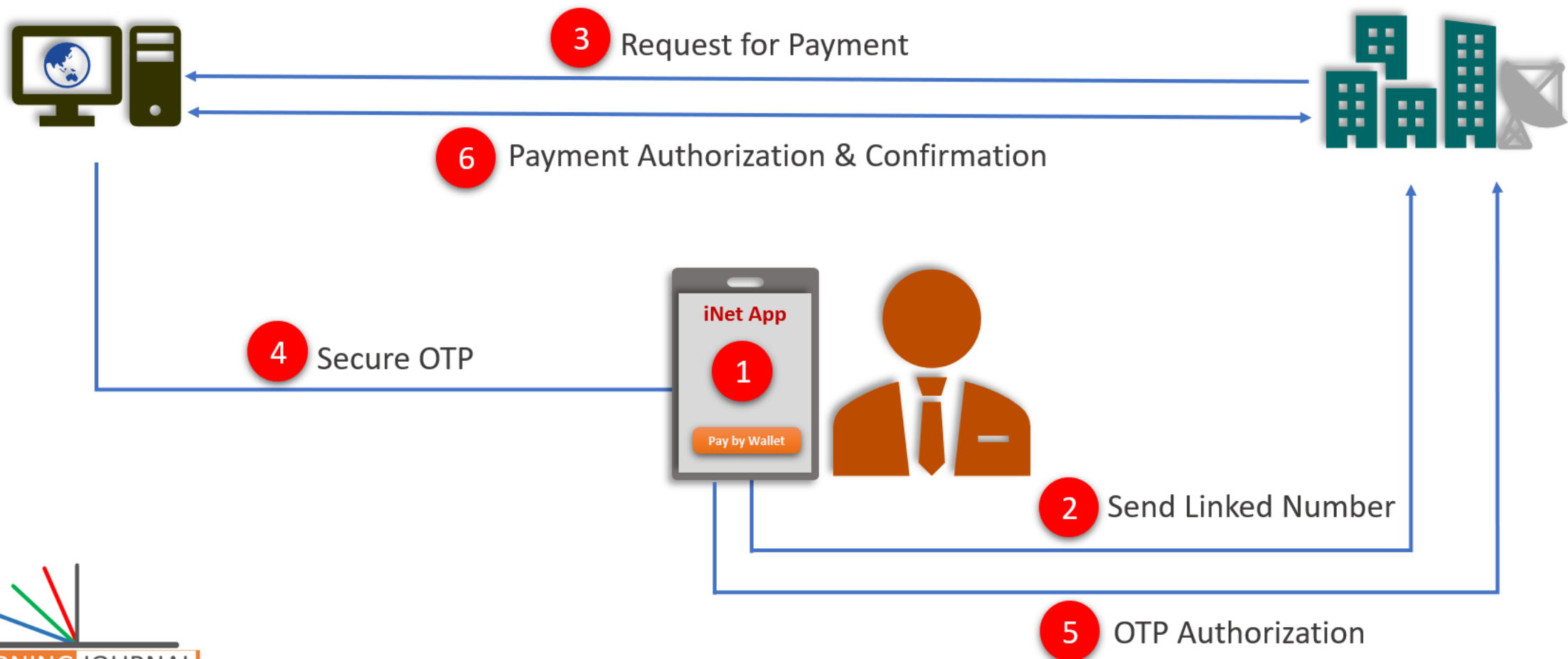


# Processing Events

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# Processing Events



# Summary

- Overview of Stream Processing
  - Identifying and Modeling Events
  - Streaming and Transporting Events
  - Real-time Event Stream Processing

