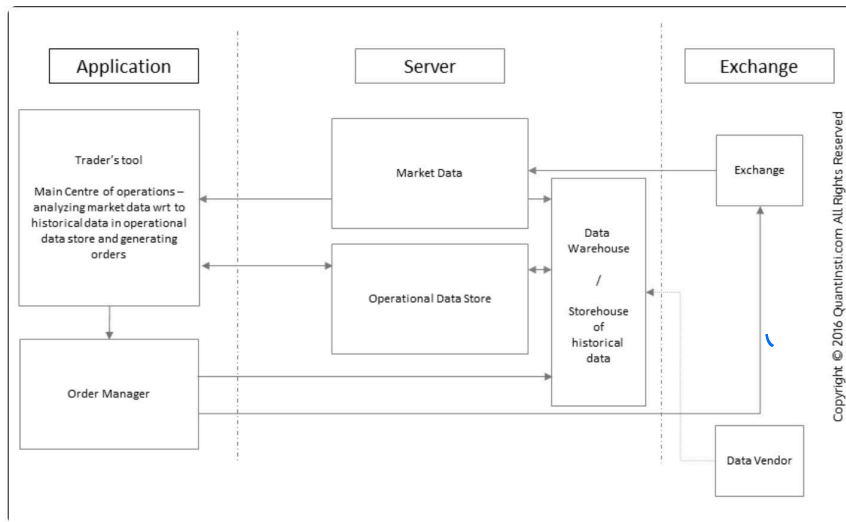


Quant  $\rightarrow$   $\times$  seeking strategy

## ① Traditional Architecture



- couldn't scale up with DMA.  
 $\Rightarrow$  latency Issue.  
- (ms)

## ② Complex Event Processing

① Market Adapters send data in their own format.

② Complex Event Processing Engine.

③

$\rightarrow$  operations can include detecting complex pattern building correlation & relationship

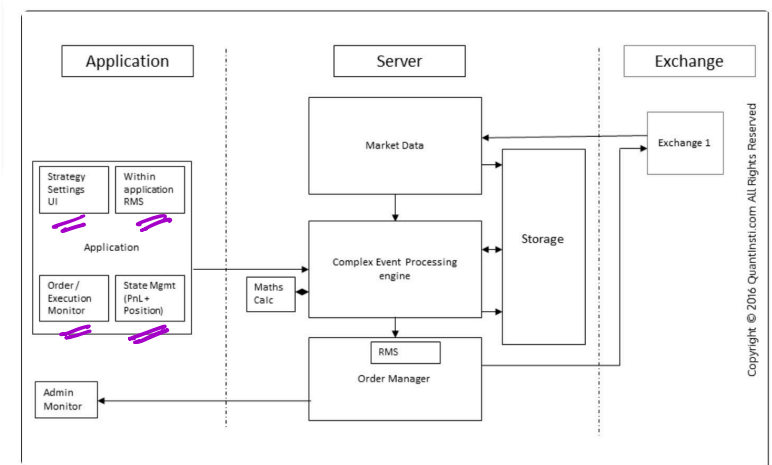
CEP  $\rightarrow$  engine  
CEP  $\rightarrow$  rule  
CEP  $\rightarrow$  WS  
CEP  $\rightarrow$  result interface

### ③ Order Routing System

2 kind of API provided by exchange

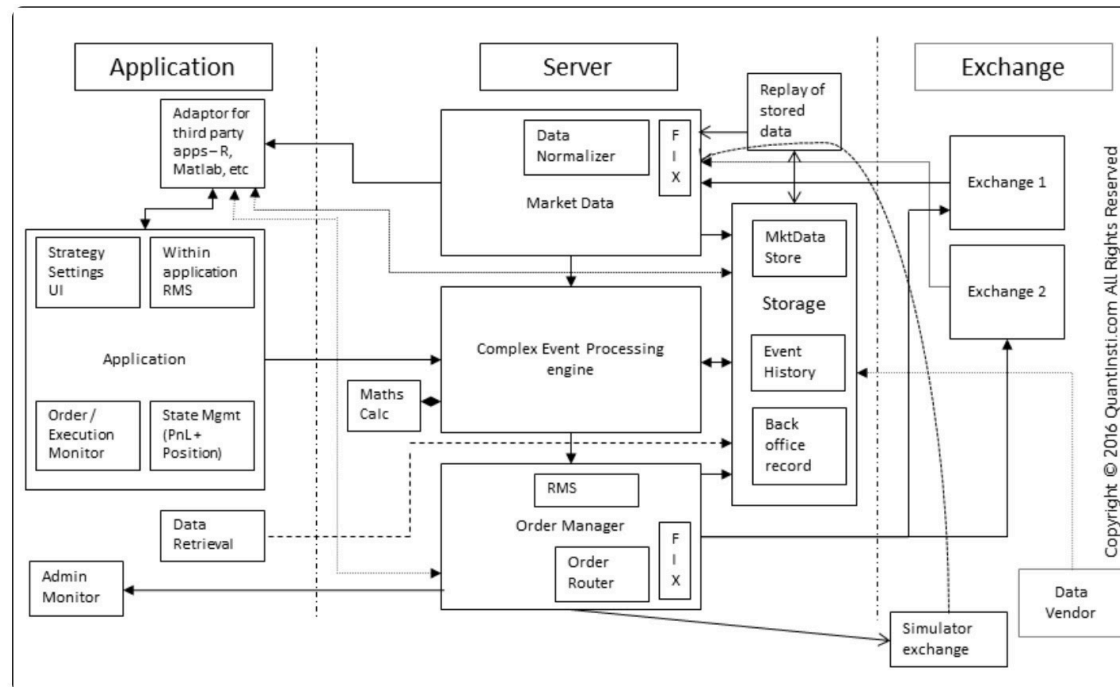
1. Native API
2. FIX API

### Order Management System

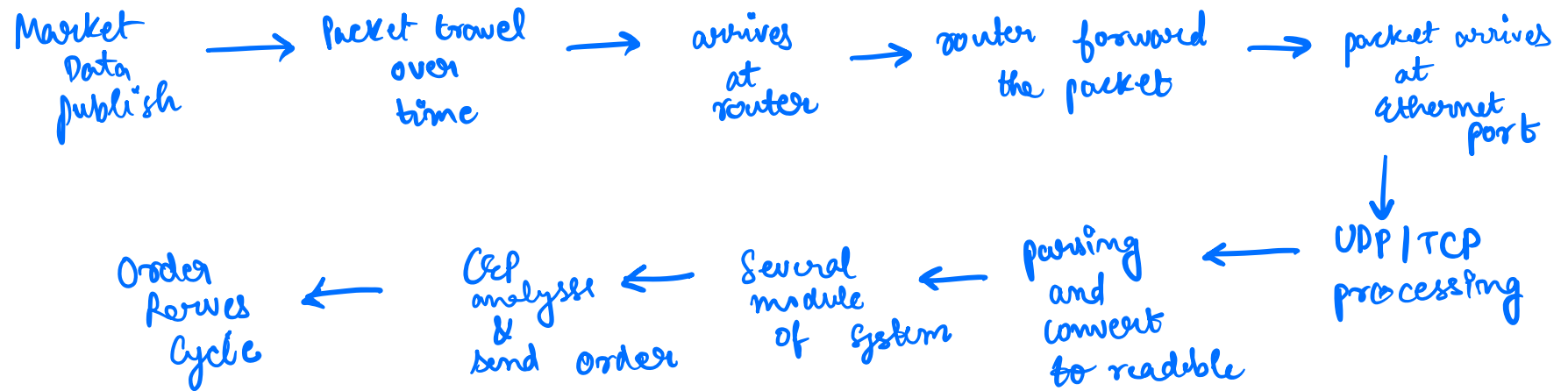


### Risk Management in Automated Trading System

- Within the application
- Before generating an order in OMS.



# Focus is Now Majorly on Low Latency Environment.



Propagation Latency

Network Processing Latency

Serialization Latency

Interrupt Latency

Application Latency

- ① Ideation | Strategy Hypothesis.
- ② Get the required Data
- ③ Strategy Writing

- ④ Backtesting
- ⑤ Paper trading
- ⑥ Strategy Live