



RealTime Insights

Not the What, but the How

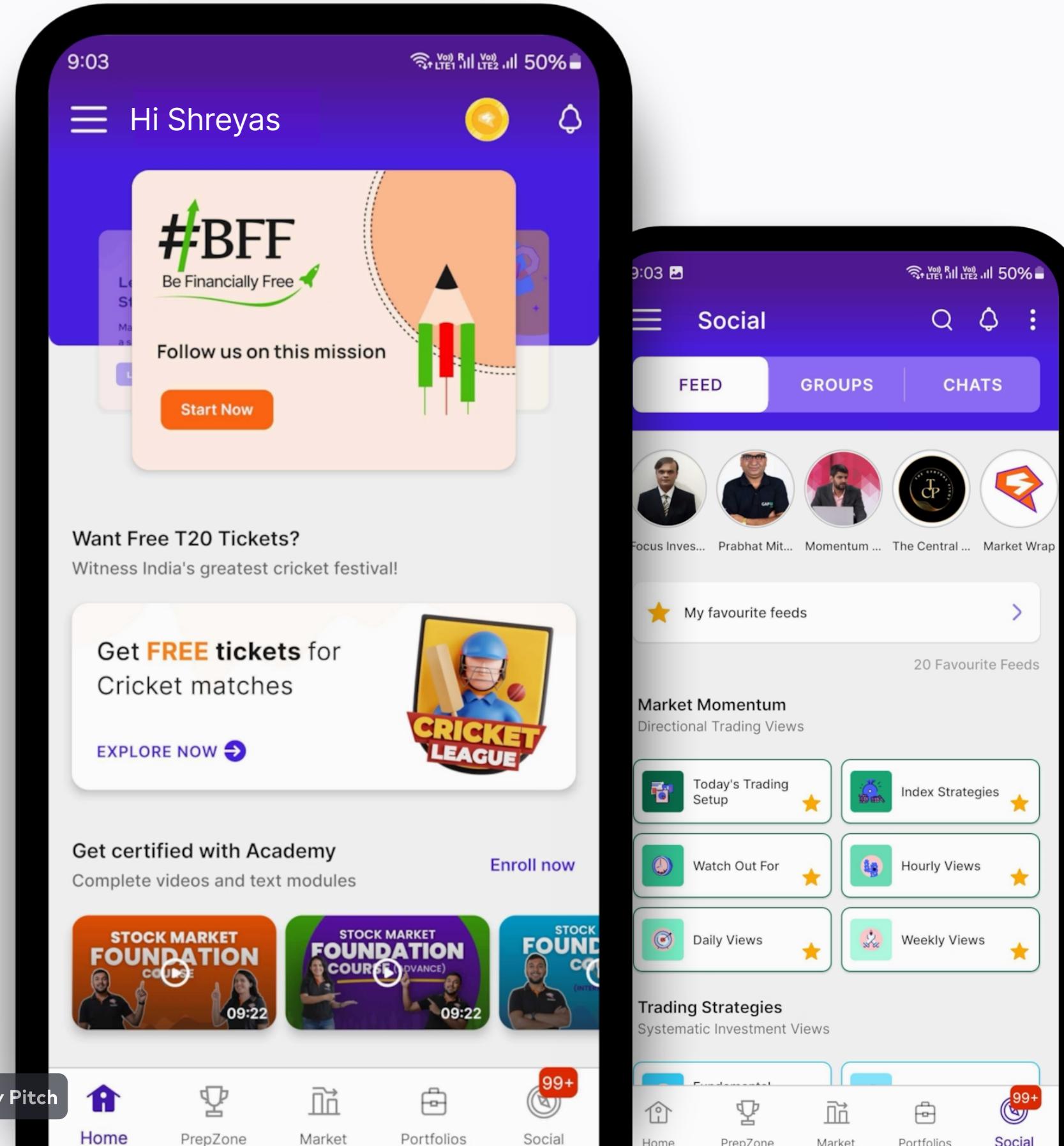
{ Shreyas Patil }

Leading Tech and Product

Almost 2 decades across

- Banking
- CRM
- AdTech
- Last Mile Delivery
- Cryptography
- Supply Chain
- Edtech for Fintech

The
INTRO



StockGro

- **Experiential Learning**
- **Traders Community**
- **Access to SEBI Registered RIA/RRA's**
- **Self paced learning**
- **Trading Tools**

The Stock Market

National Stock Exchange

2514 Traded Stocks

~ 73 Indices

6 Hours of Trading



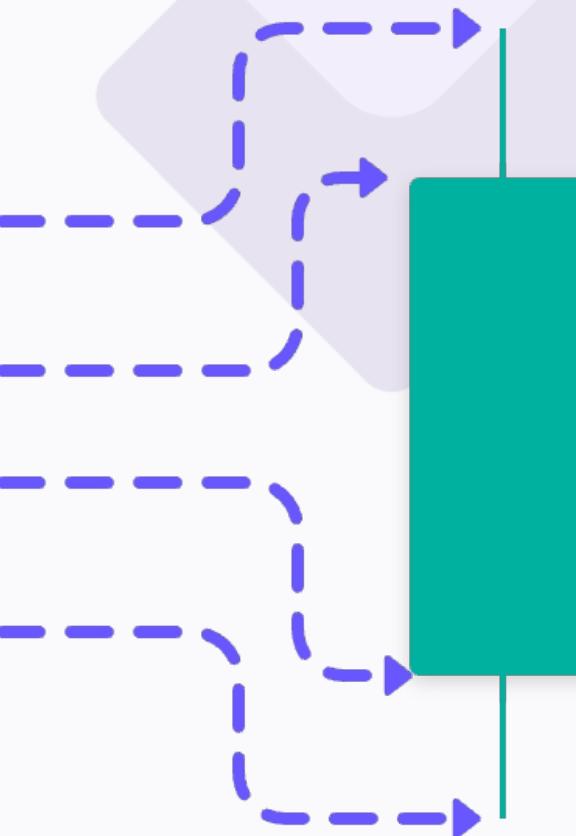
2,160,000,000 ... Any Guesses?

It's all about the ticks !!

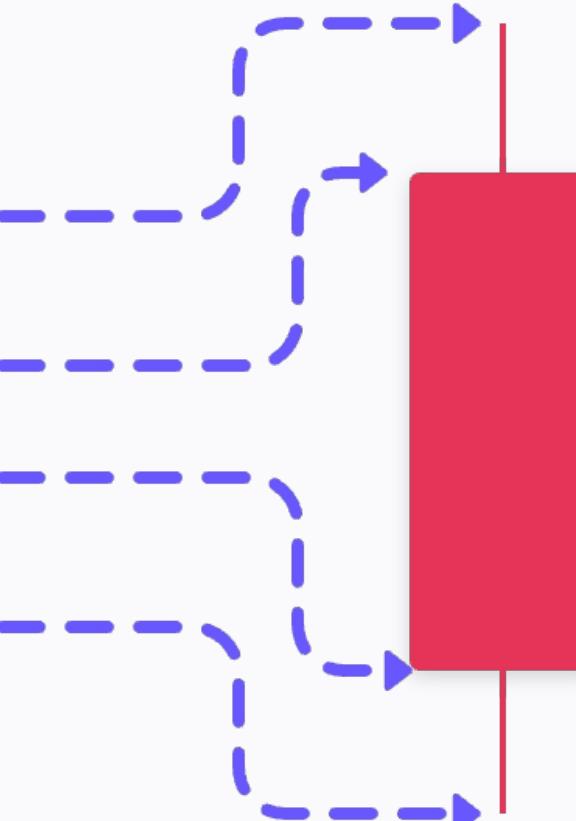
```
{
    symbol : "INFY",
    last_traded_price : 2000.45,
    last_traded_quantity : 2000000,
    time_stamp: 2024-03-23 09:30:23
}
```

Symbol	Last Price	Time	Minute Level
XYZ	100	2024-03-23 09:30:10	Open
XYZ	99	2024-03-23 09:30:15	Low
XYZ	101	2024-03-23 09:30:25	
XYZ	100	2024-03-23 09:30:35	
XYZ	102	2024-03-23 09:30:45	High
XYZ	99.5	2024-03-23 09:31:00	Close

High	100
Close	80
Open	60
Low	40

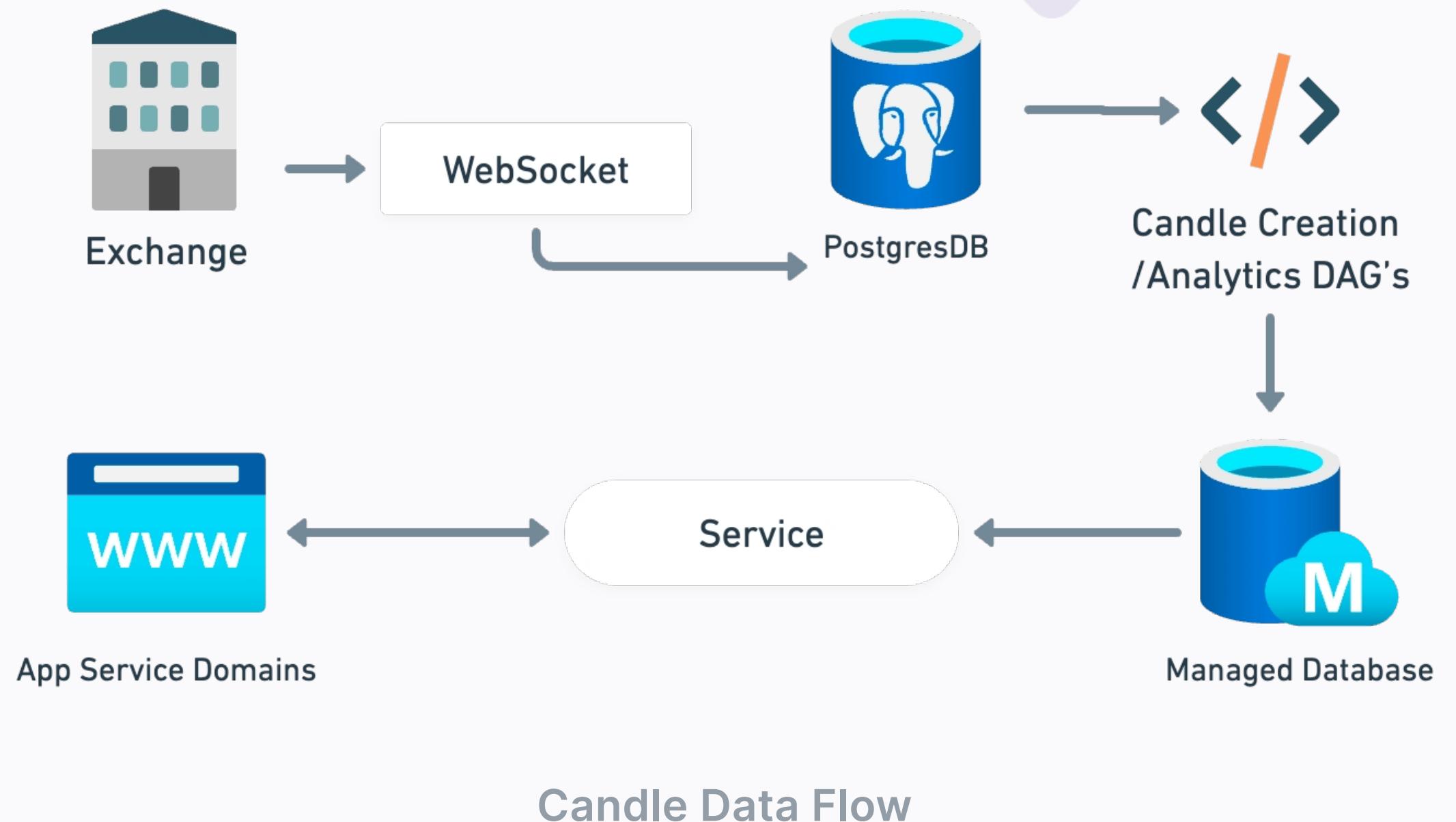


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Open	80
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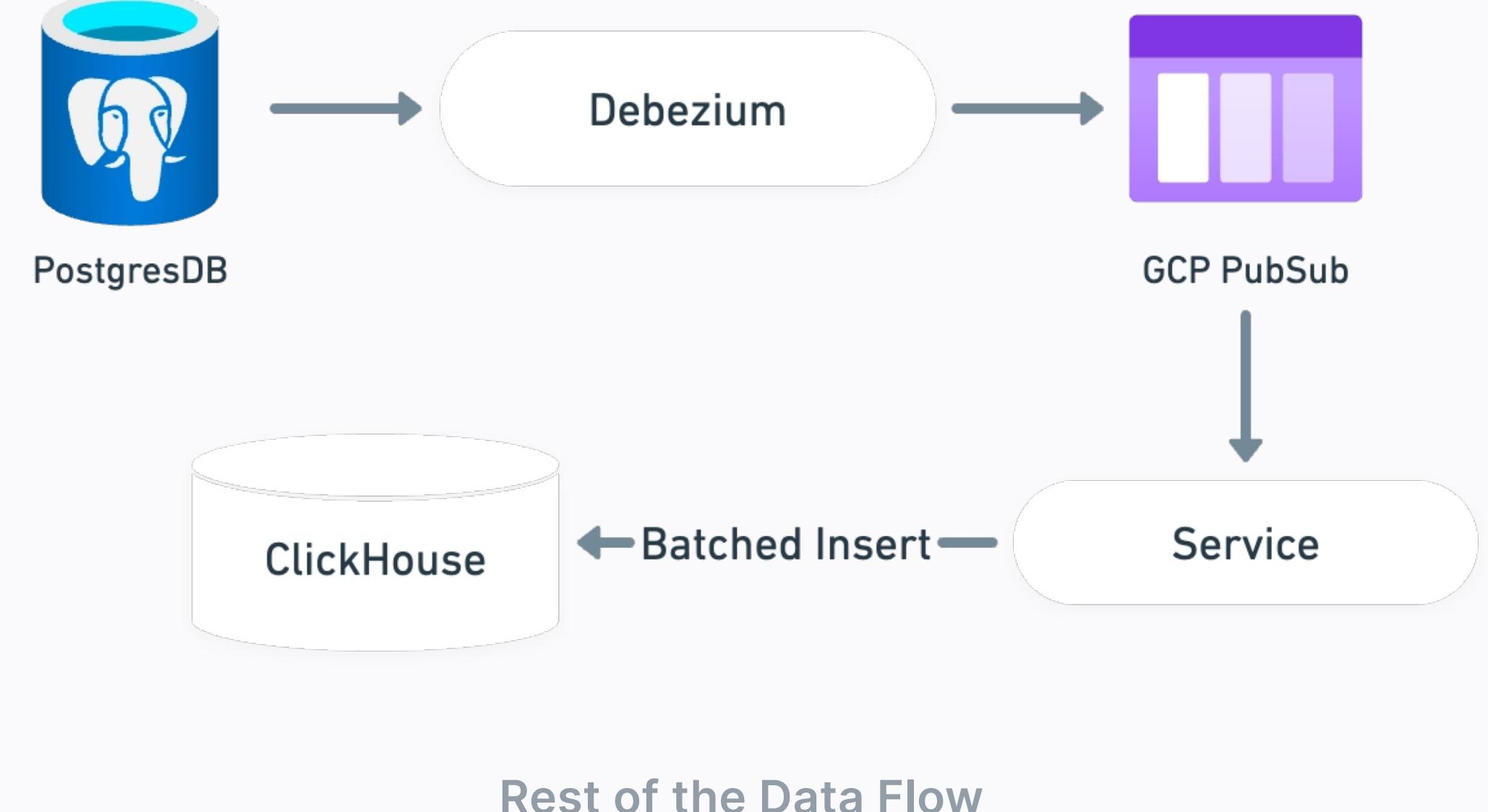
Current State of Affairs

We could have used any
timescaleDB for this



Current State of Affairs

But this would have
required something more



ClickPipes

< Data sources / ClickPipes

1 Select the data source

If you need any help to setup ClickPipes, you can [access the documentation](#) for more details.



Apache Kafka



Confluent Cloud



AWS MSK



Redpanda



Upstash



WarpStream



Azure Event Hubs

2 Setup your ClickPipe Connection

3 Incoming Data

4 Parse Information

5 Details and Settings

Demo Time

The damn things that always fail !!



Materialized Views

Fancy Insert Trigger

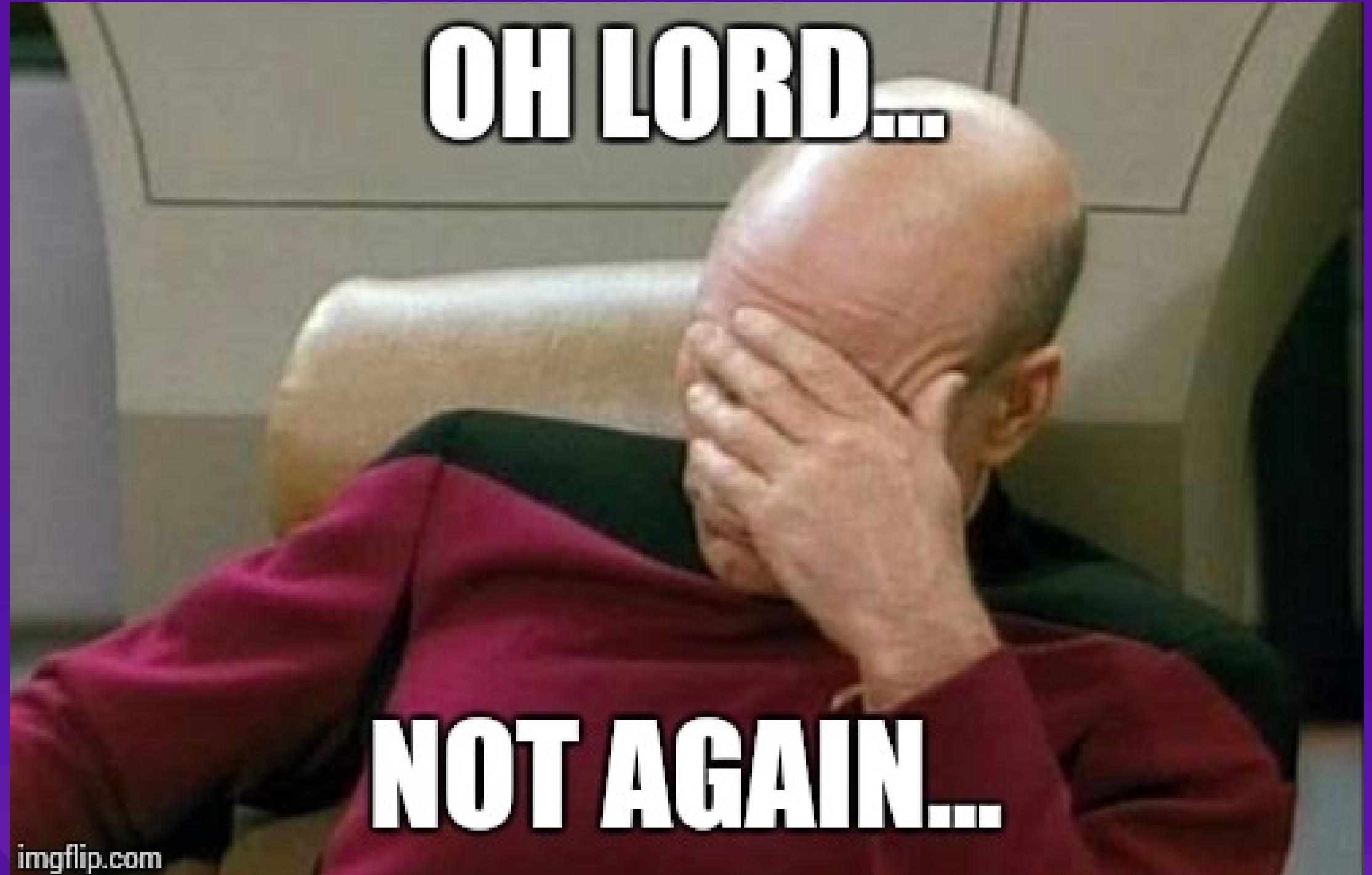
- Never reads any data from the source table
- Source table can have any Engine
- Source table update/delete/drop has no effect on the materialized view

Nats Table Engine

```
CREATE TABLE ticks_queue (
    timestamp DateTime64 ,
    symbol String,
    price Float64,
    volume Float64
) ENGINE = NATS SETTINGS
nats_url = 'localhost:4222',
nats_subjects = 'ticks_data',
nats_format = 'JSONEachRow';
```

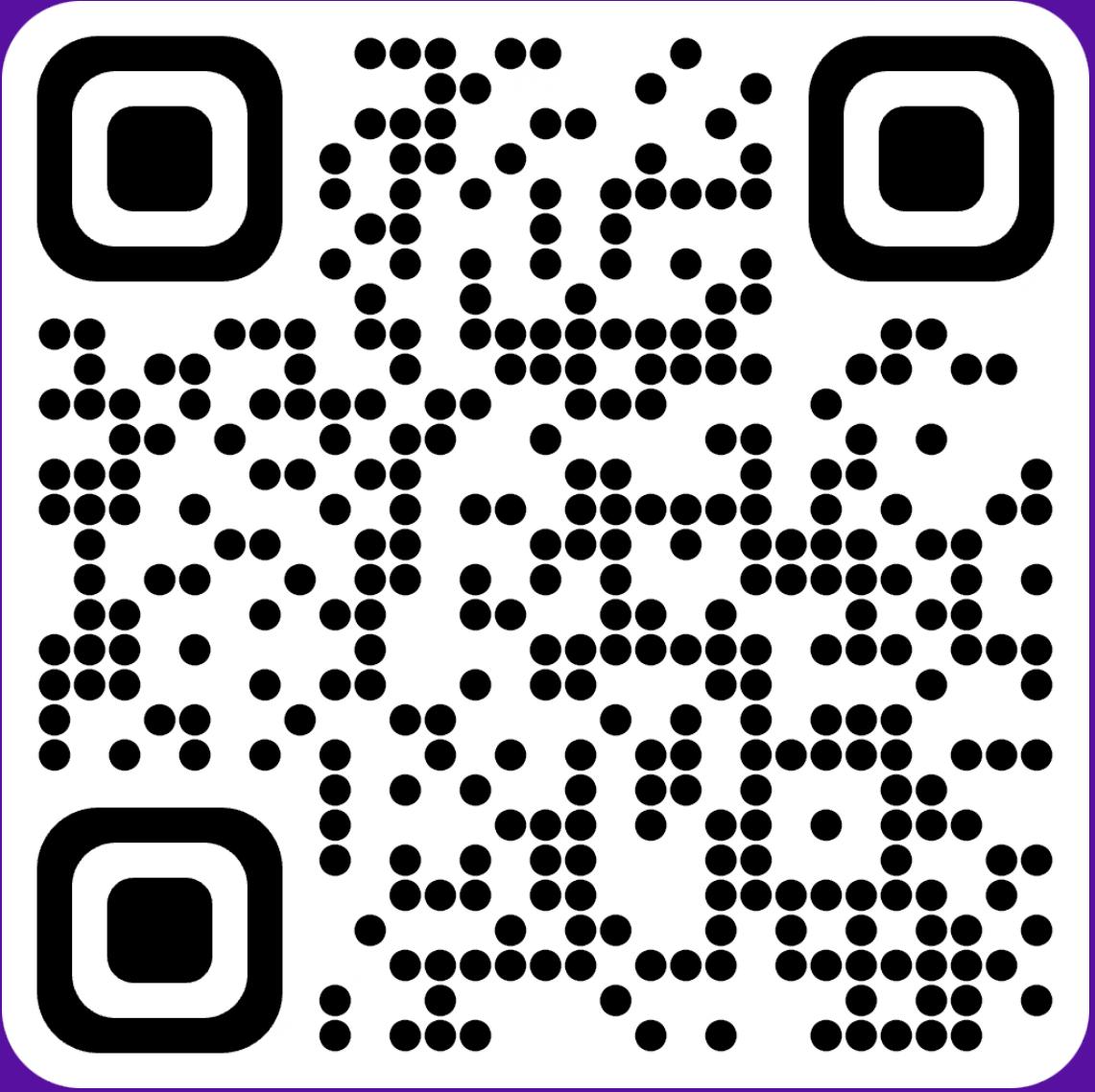
Another Demo

Hopefully this works



Thank You

<https://www.linkedin.com/in/shreyaspatil27/>



Shreyas Patil



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