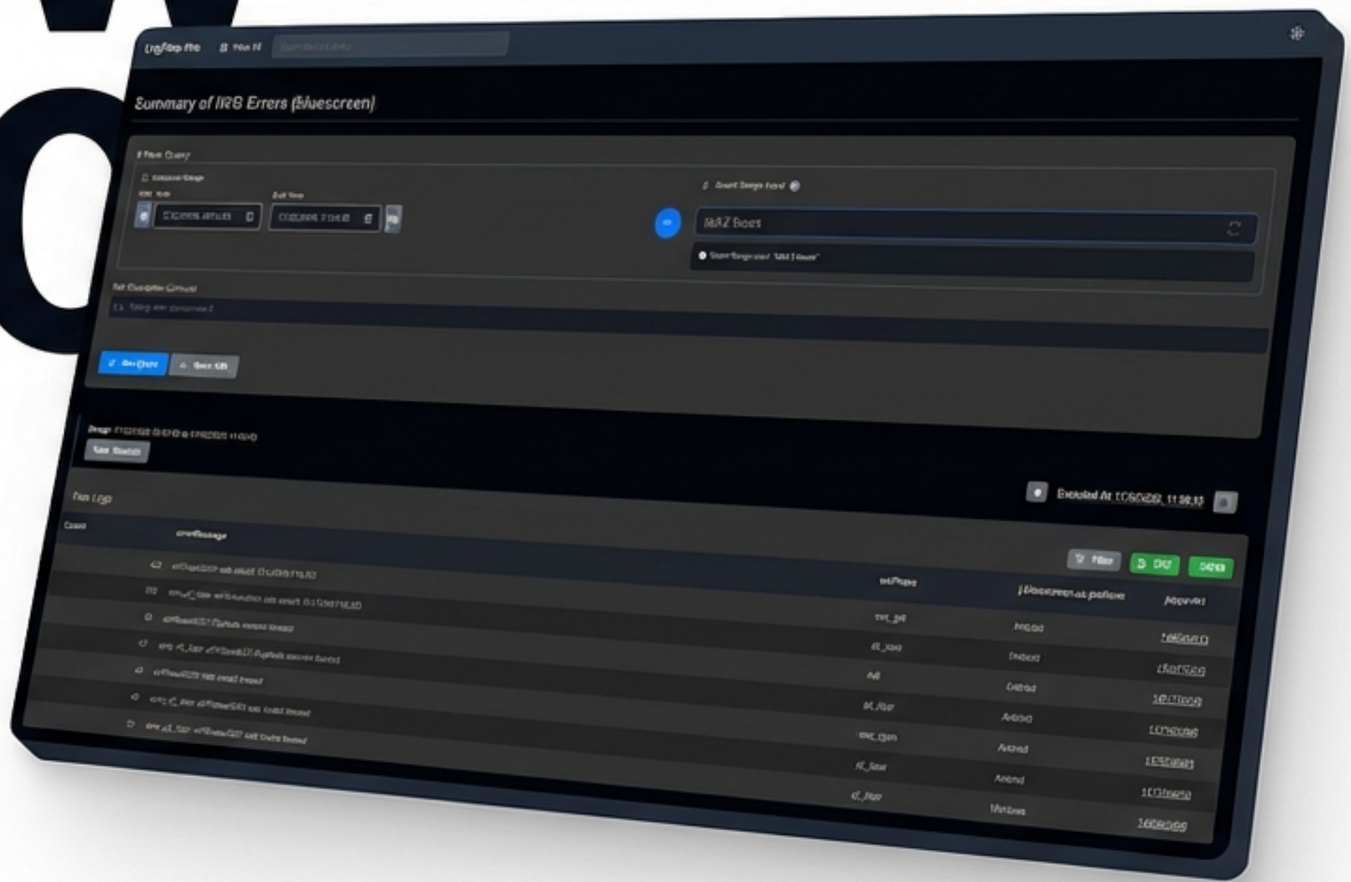
LogFlow Pro v1.0

Advanced CloudWatch Visualization



Bridging the gap between raw logs and actionable engineering insights.

A Diagnostic Platform for Engineering Velocity



Reusable Libraries

Structured management layer on top of AWS to organize scattered queries.



Natural Language Time

Human-readable time controls (e.g., ‘last 2 hours’) converted to precise epochs.

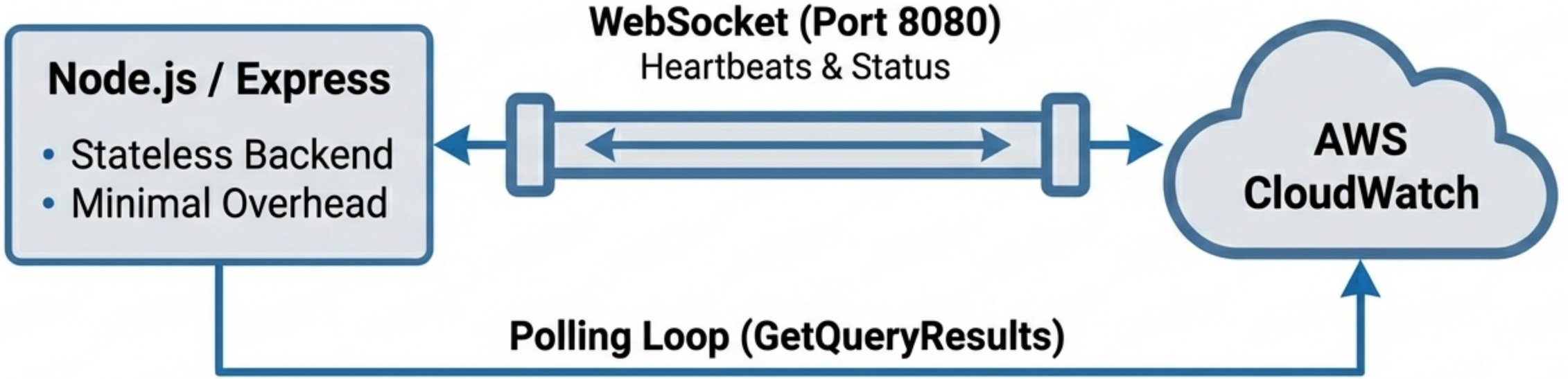


Persistent Snapshots

Streamlines workflow from incident detection to root cause analysis.

LogFlow Pro organizes CloudWatch; it does not replace it.

Architecture: Stateless Backend, Stateful Frontend

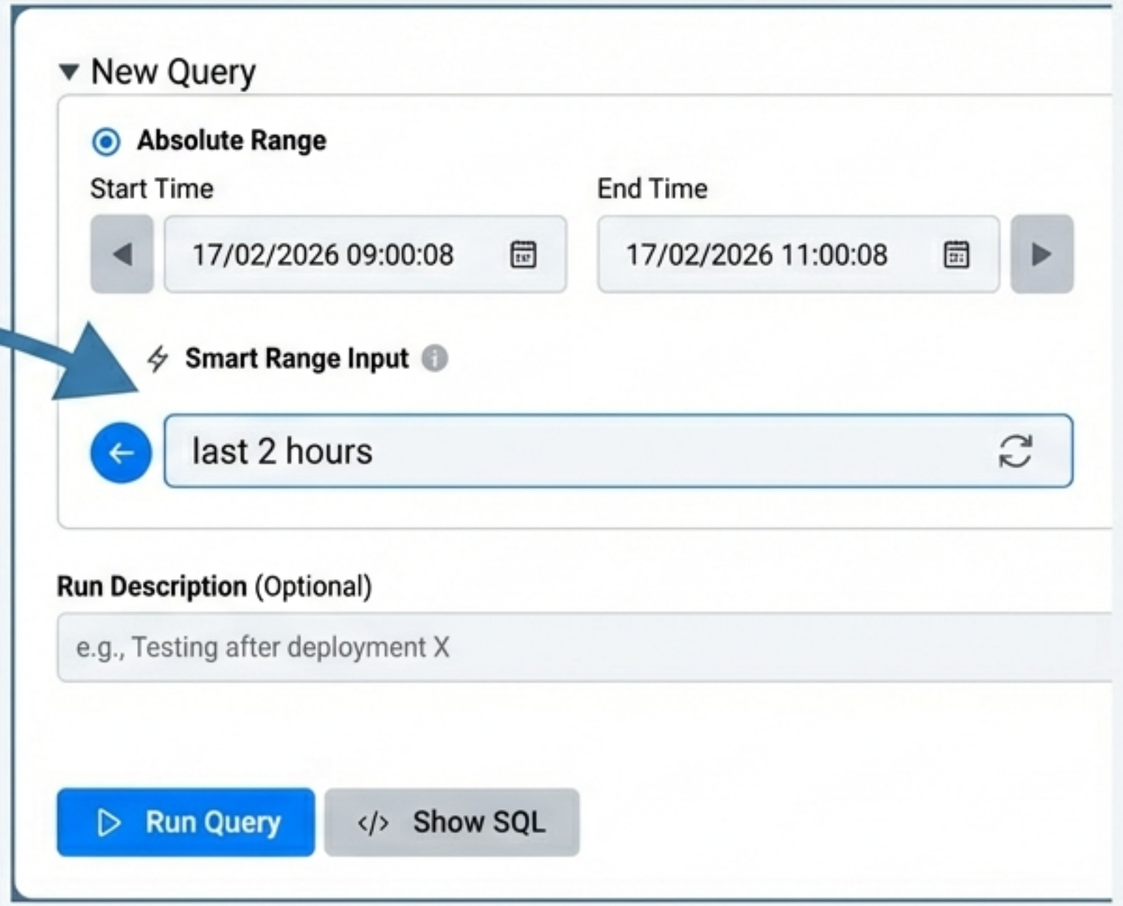


Security Detail

SSO Credential Guard: Monitors auth failures and executes 'process.exit(1)' to force fresh login cycles.

Configuration as Code: The Query Definition Language

```
1  Ref: DFE-011
2  Region: eu-west-2
3  DefaultDateRange: last 1 hour
4  Parameters:
5    deviceId=text: :Enter ID
6  Query:
7    fields @timestamp, @message
8    | filter @message like /{{deviceId}}/
9
```



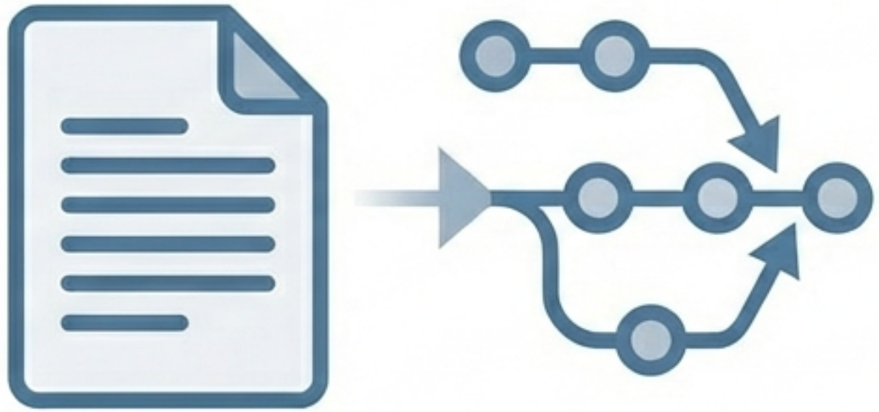
Engineers define tools using the formats they know best—text files.

Optimized for Speed & Developer Experience

Why Text Files instead of a Database?

Simplicity

Zero database overhead. Queries load directly from /queries directory.



Git-Ready

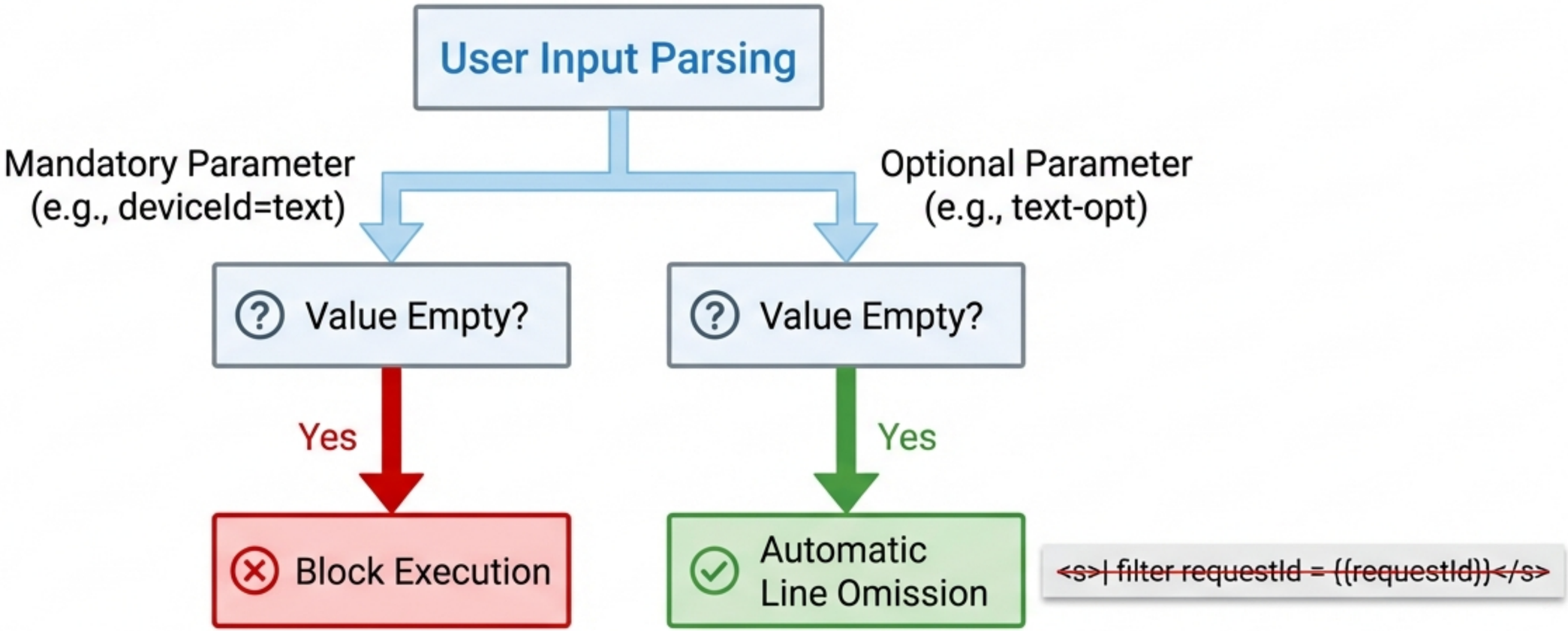
Version control, diff, and review query logic using standard Git workflows.



Future-Proof

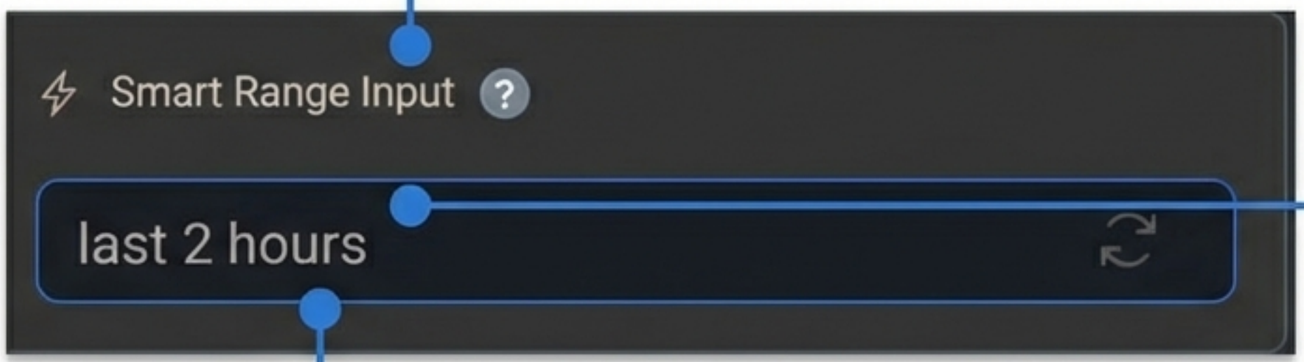
Architecture allows easy migration to structured JSON storage.

The Dynamic Parameter Engine



Prevents syntax errors by intelligently removing unused SQL clauses.

Natural Language Time Control



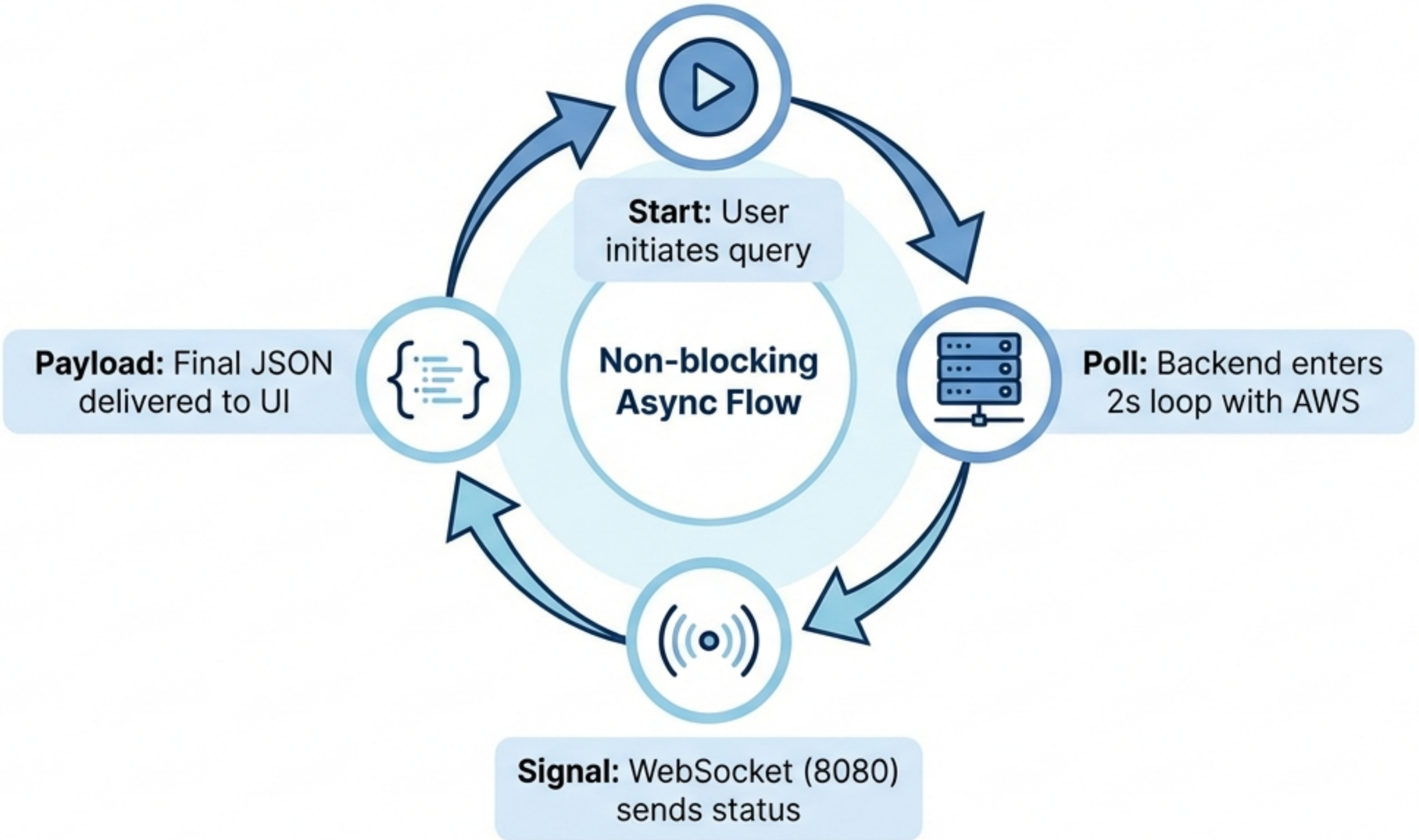
Rolling Periods
'last 2 hours' → 'now - 120m'

Calendar Snapping
'the last hour' → '14:00 to 14:59'

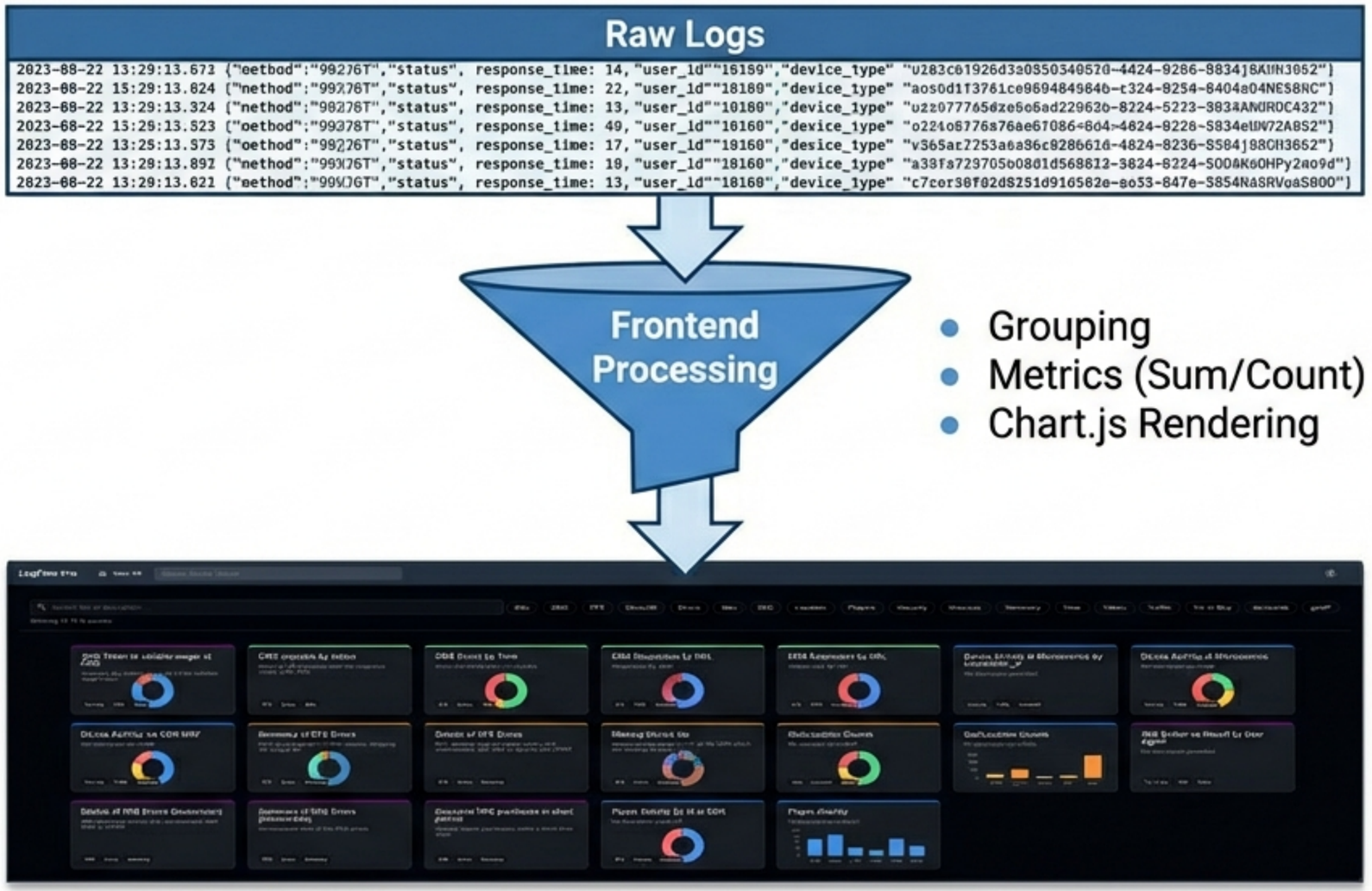
Complex Ranges
'yesterday 5pm to now'

Powered by SmartRangeParser.js. Dependency-free conversion of human intent to Unix epochs.

The Execution Loop: Real-Time Feedback

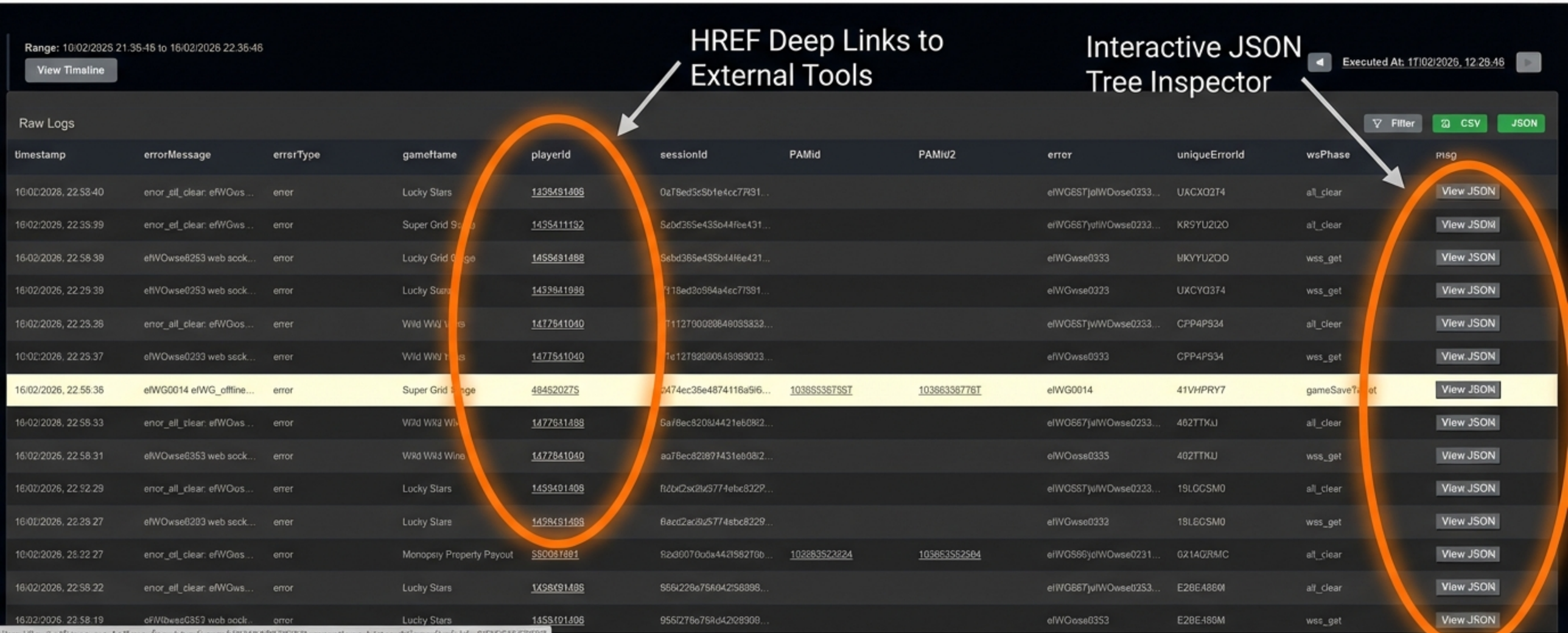


Client-Side Aggregation & ‘Views’



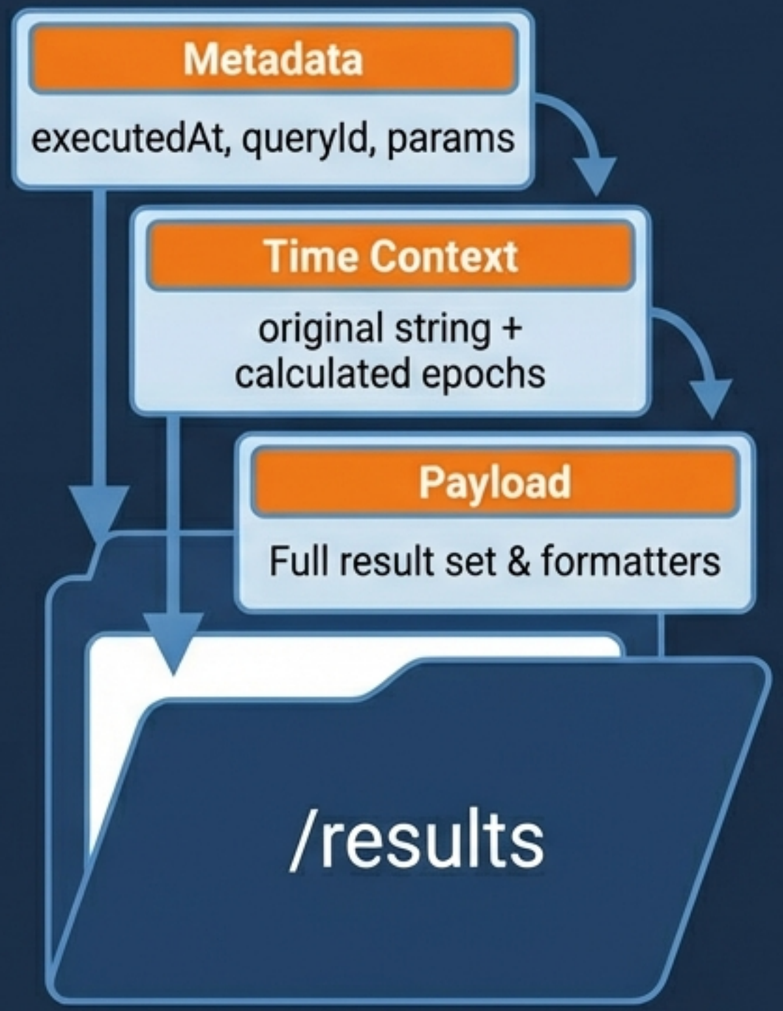
The browser calculates aggregates locally, reducing server load and enabling instant visualization.

Interactive Results & Deep Linking



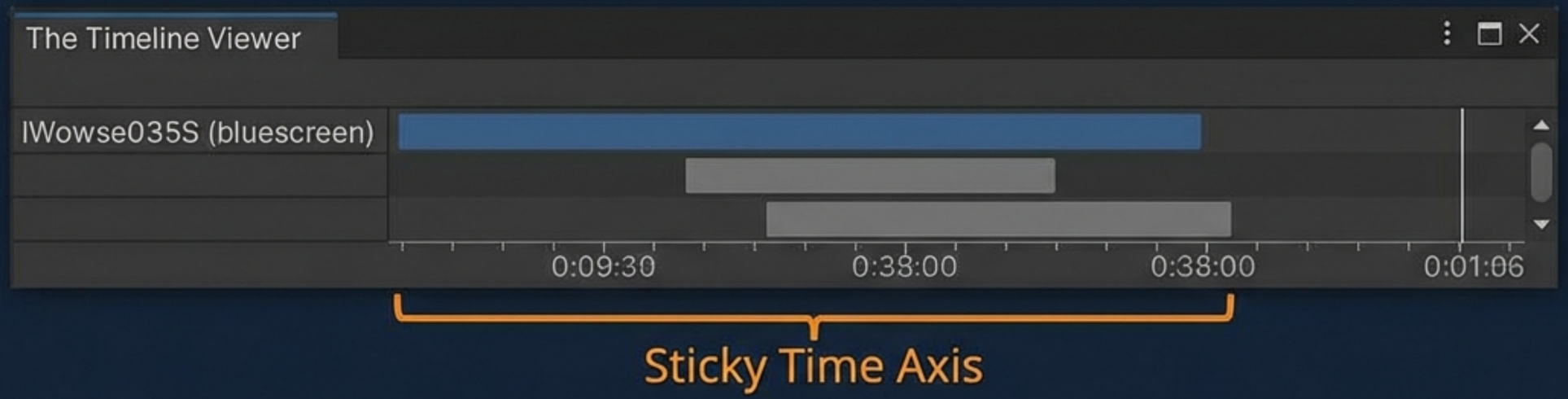
Clicking chart segments automatically filters this raw data table.

Historical Snapshots: Never Run the Same Query Twice



Results are serialized to JSON. Retrieve past incidents instantly without re-incurring AWS costs or wait times.

The Timeline Viewer



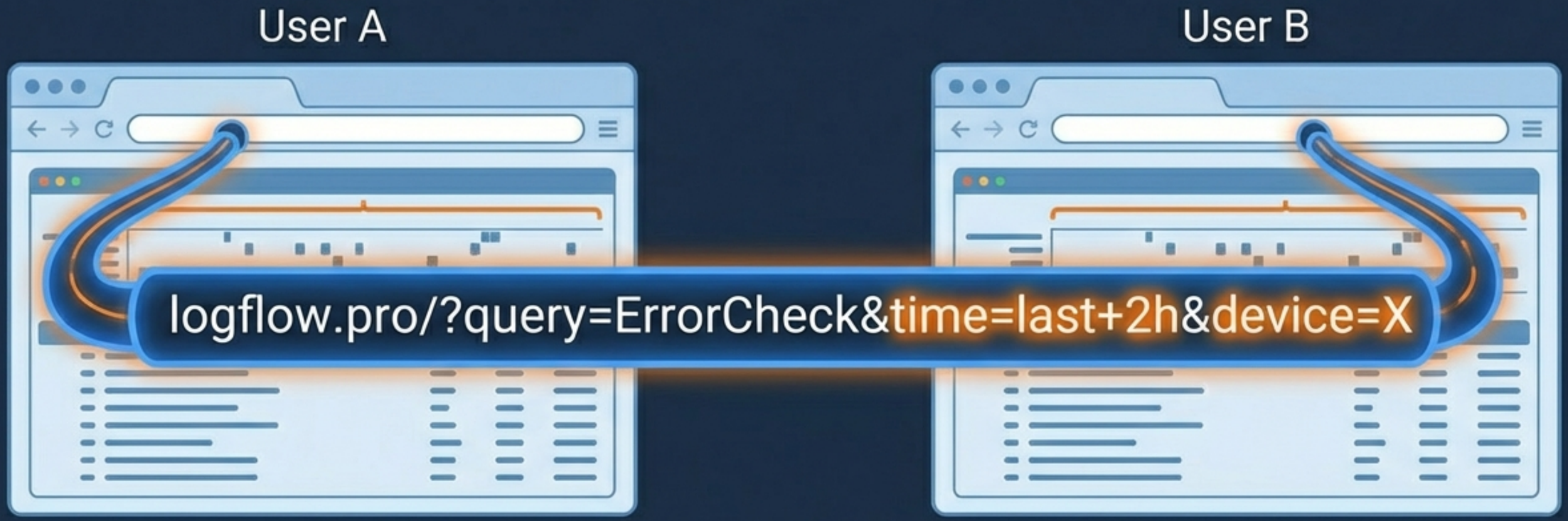
Query History Rows

The Query History

Count	errorMessage	wsPhase	J:blues...	playeri81
0	IWowse035S (bluescreen)	csp_1		playeri81
0	IWowse035S (bluescreen)	csp_2		playeri81
0	IWowse035S (bluescreen)	csp_3		playeri81
1	IWowse035S (bluescreen)	csp_4	J:blues...	playeri81

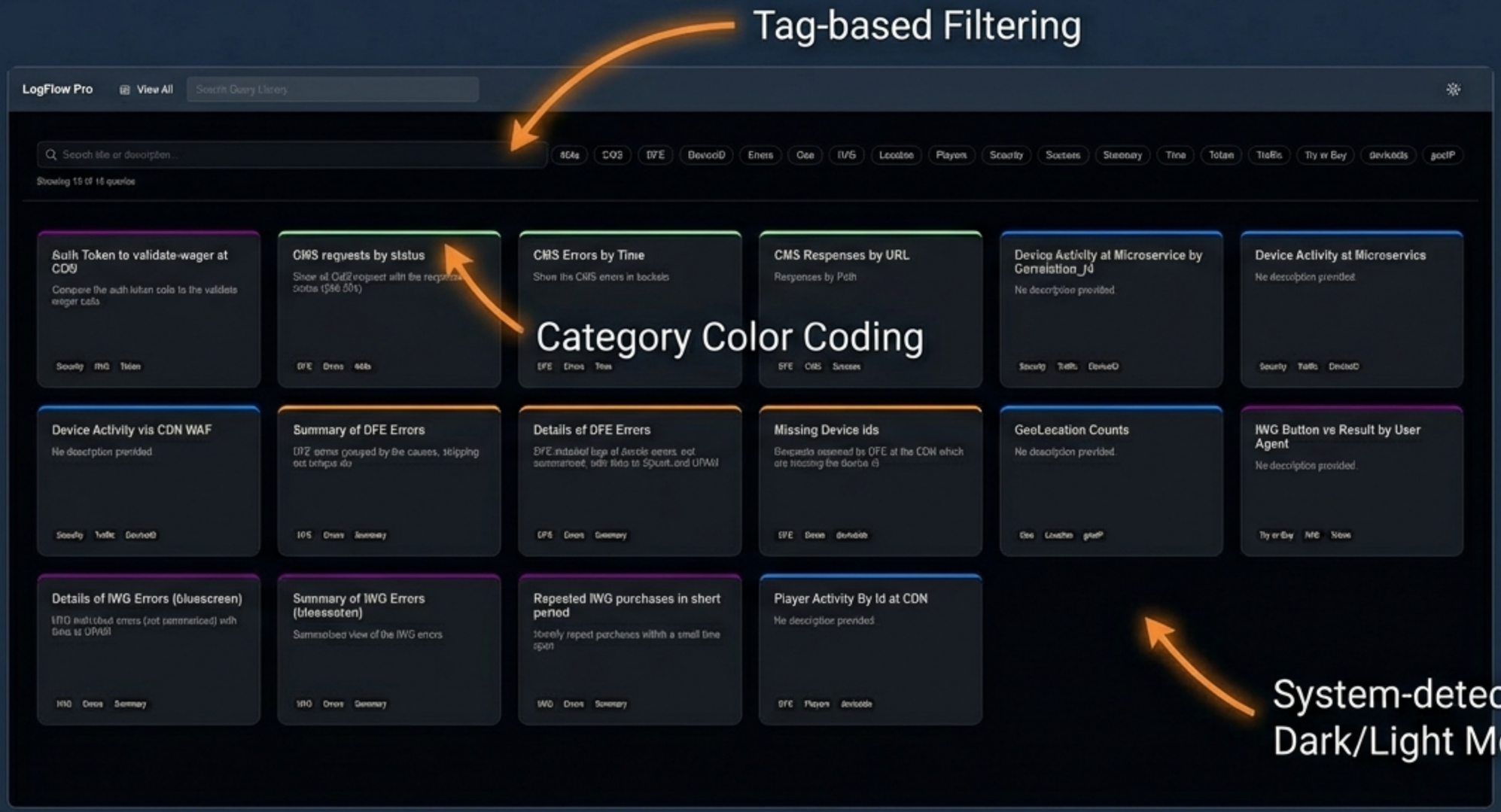
A 'God-View' of all historical runs.
Click any bar to load that exact historical state immediately.

Deep Linking & State Persistence



Share the frozen state. A URL contains the exact query, parameters, and time range. No screenshots needed.

The Query Gallery & Theming



Built by Engineers, For Engineers

01

Speed

Stateless backend + WebSocket feedback loop.

02

Simplicity

Text-file DSL for “Configuration as Code”.

03

Context

Natural language time & historical timelines.

04

Actionable

Deep linking, local aggregation, and drill-downs.

LogFlow Pro turns the noise of CloudWatch into the signal of engineering insight.