

Clients

\* System Testing

• End to end stress, resilience, consistency testing



Aggregation Server

Handles RESTful requests & responses

Manages multiple concurrent threads for processing reqs

Processes & Aggregates Data

Consistency management between servers

Stores aggregated data

RESTful API Layer

Thread Pool

Aggregation Logic

Consistency Mngmt

Data Storage

End-to-end integration testing

Stress & deadlock testing

Edge cases & missing data, integration testing

Fault tolerance & performance testing

Correctness, integration, recovery testing



Source data used by servers for processing

Content Server

Connection integration testing

Monitoring & Logging

Functionality & correctness testing

• deadlock detection, performance metrics, health checks

\* Logs critical events for system analysis

\* Very small system so only 1 Ag server. Could replicate for better fault tolerance, consistency, load balancing, availability.