

Restoring Relevance with RESO's Data Dictionary, API and Event Catalog

Mark Lesswing

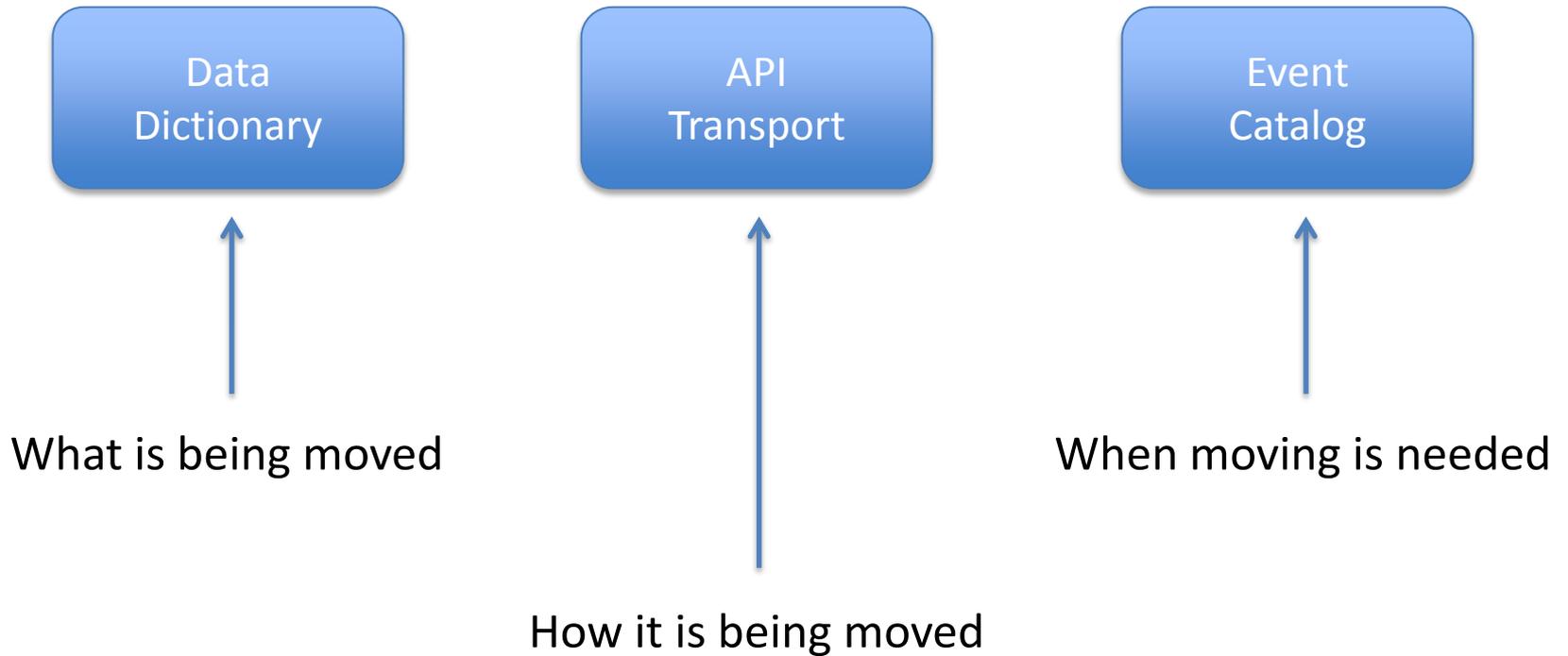
Boring, but necessary slide

- I am not talking about RETS (1.5, 1.7.2 or 1.8)
- RETS is oriented towards “bulk” activities
- RESO Data Dictionary can be used in other ways
- RETS is too “hard”; developers are lazy
- DMQL too “heavy” for mobile use cases

B-School Slide

- Improves TTM by reducing complexity
- Improves efficiency of delivery
- Opens up new markets
- Increases development resource pool
- Improves customer satisfaction

Trio Courtesy of RESO





What are you talking about?

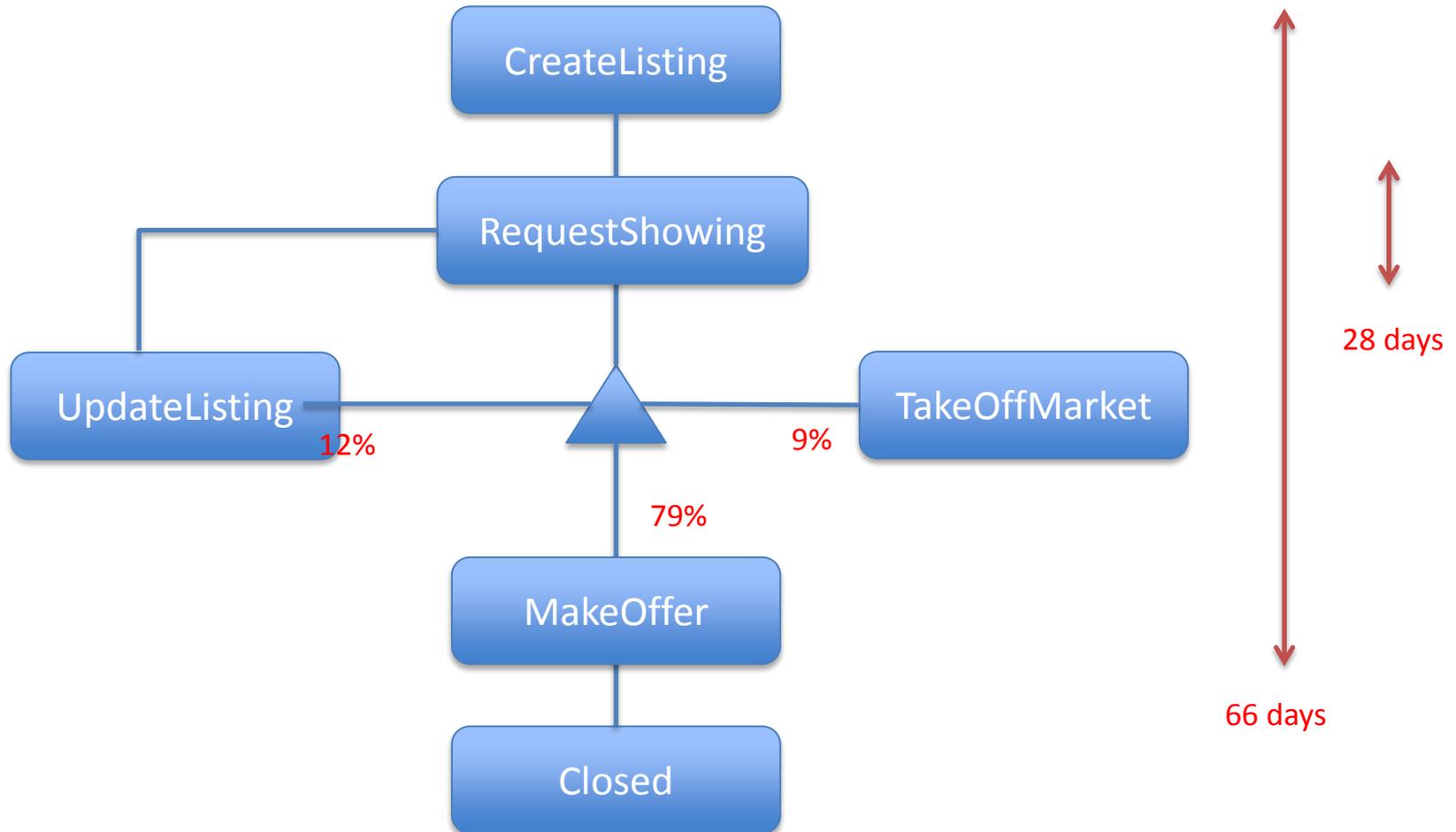
What is the Event Catalog?



PropertyDetail

- Actions performed by users
- Information to “fine tune” an action
- Data that results from an action

Events can Model a Life Cycle





I need to be convinced!

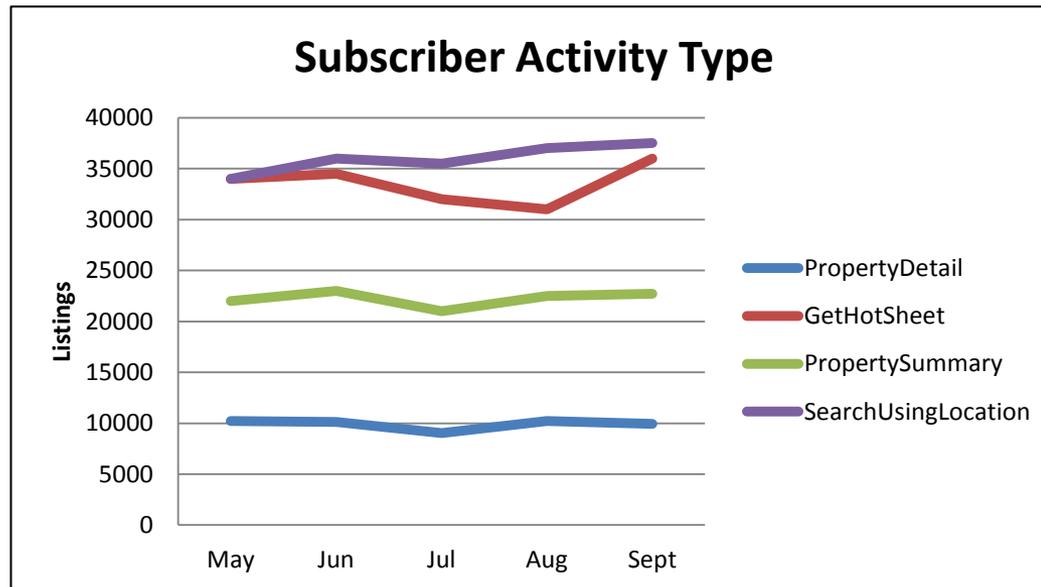
Why have an Event Catalog?



PropertyDetail

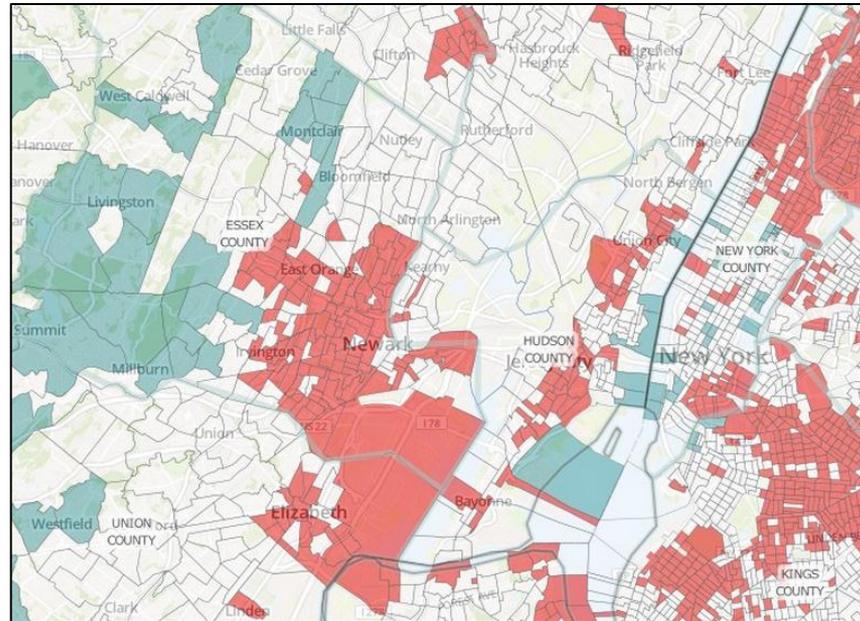
- Work can specified in a common way
- Easy to build simple applications
- Resource Consumption analysis

Resource Consumption



- Shows how users consume your services
- Helps new product/service development

Resource Activity



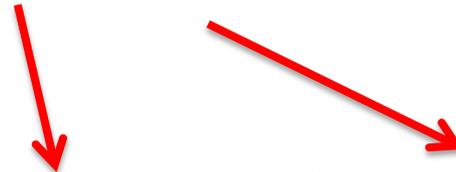
- Shows where a service is being used
- What is the next Event in the lifecycle?
- Predictive Analytics



Be more specific!

What an Event Catalog Looks Like

Data Dictionary Information



Event	Description	Variables	Response
PropertyDetail	Detail presentation of a listing suitable for public consumption	NONE	ListingNumber ListingPrice Area Bedrooms Baths Address
GetHotSheet	Summary of listings that have changed	SinceDate	ListingNumber NewPrice

What else could be in the Catalog?

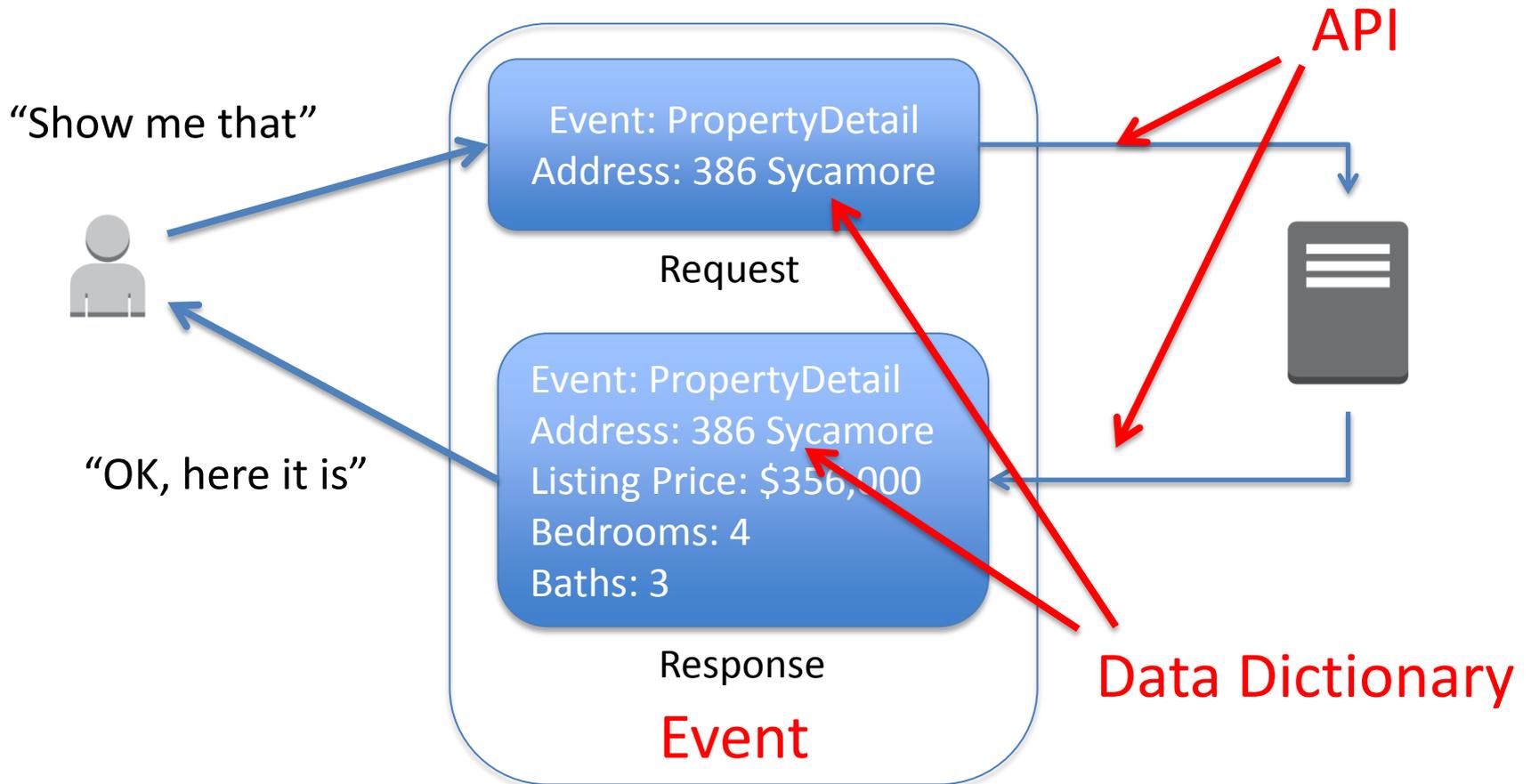
- UpdateListing
- SearchUsingLocation
- PropertySummary
- RequestShowing
- MakeOffer

It should not be difficult to construct a list of activities

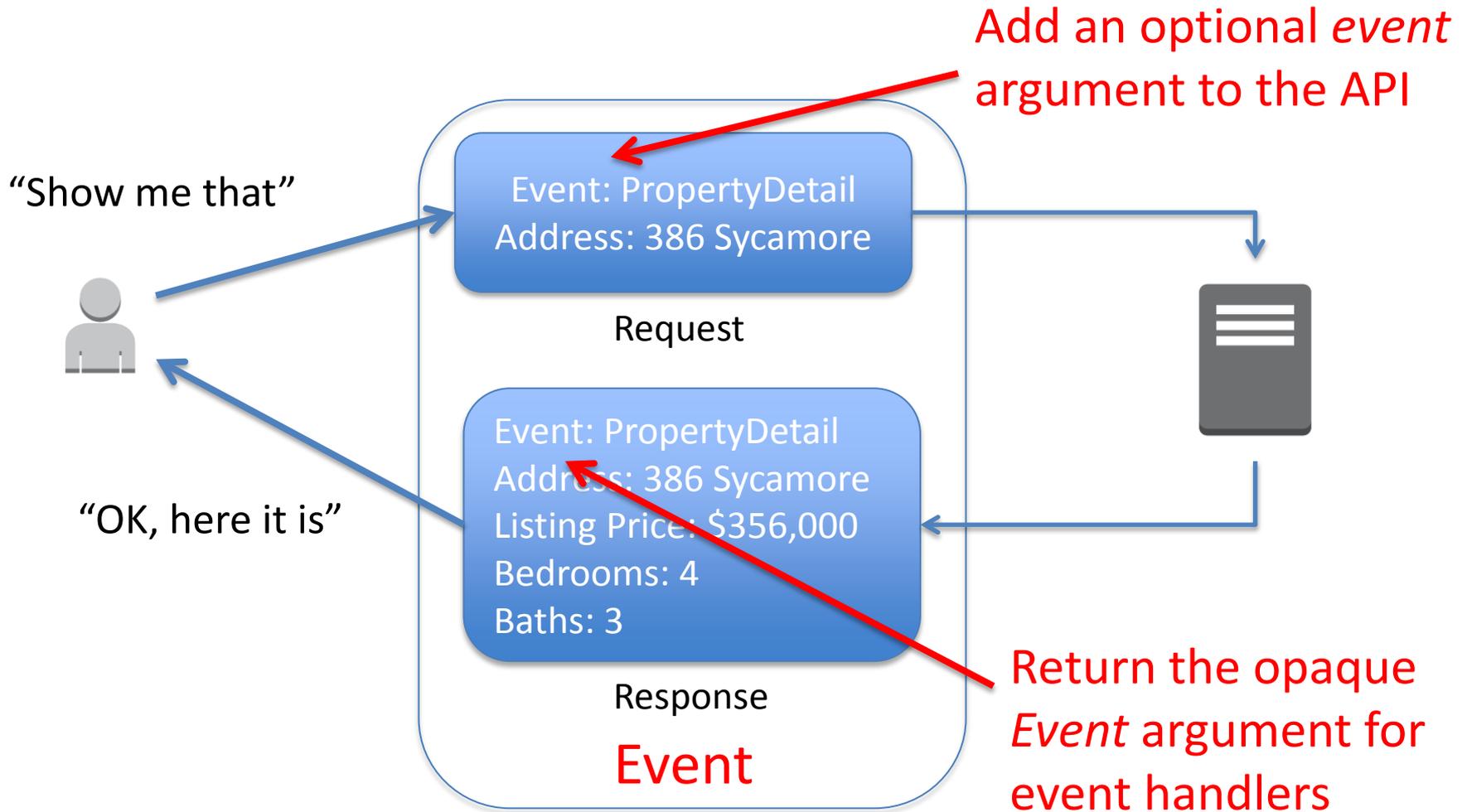


Give me an example!

Theoretical Construct



Theoretical Construct



What Does Open Source Mean?

Do it Yourself!

DIY Processing Tools



Asynchronous programming languages
for quicker data retrieval

Multi-threading javascript
libraries for faster interactions



DIY Persistence Tools



Low overhead database that should be used where speed is an issue

Traditional SQL Database



NoSQL Database that works well with JSON structured data

DIY Operating Systems



FreeBSD®

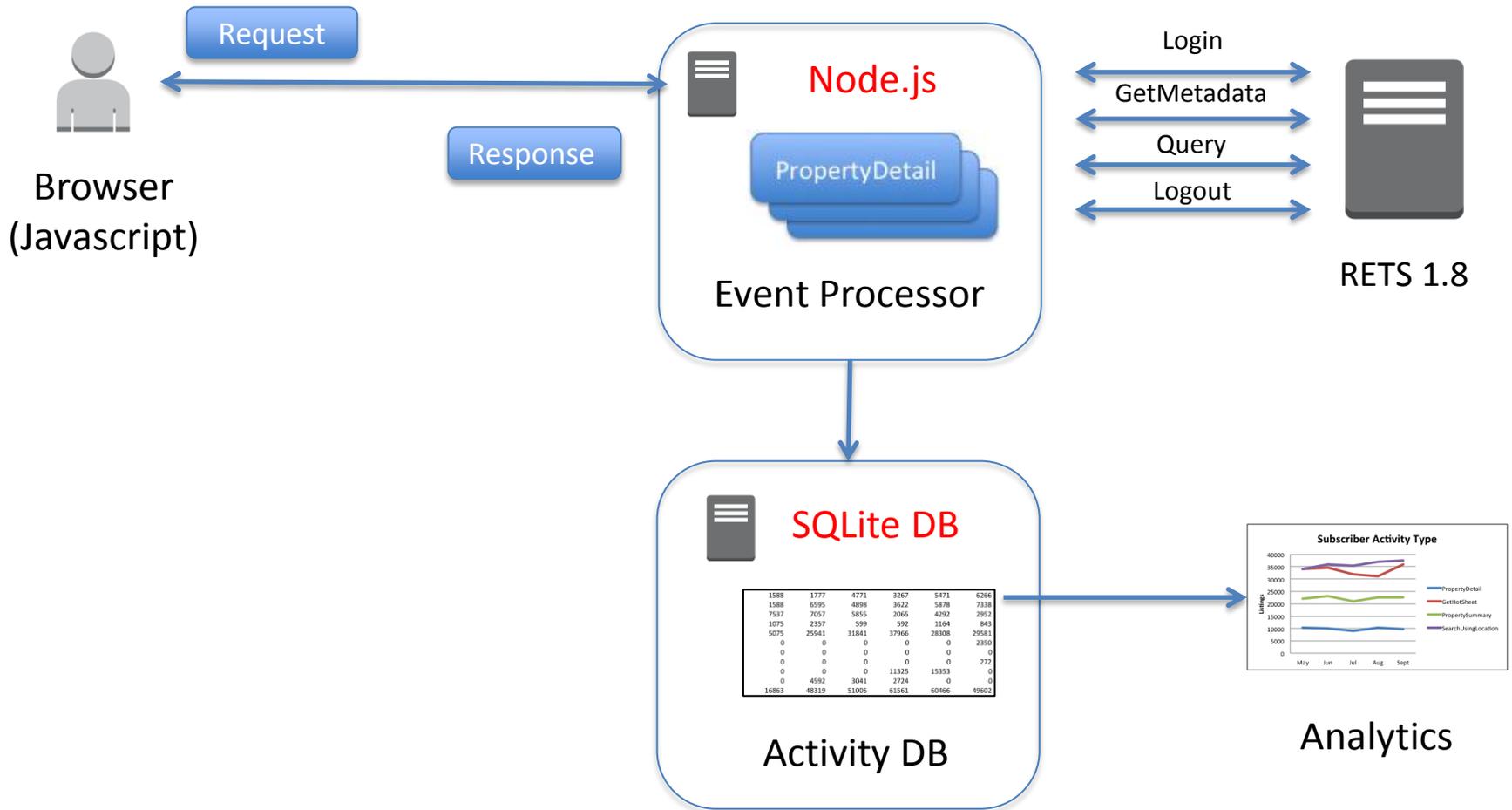
Low overhead, fast Unix

Enterprise grade
GNU/Linux



Debian GNU/Linux
(more packages)

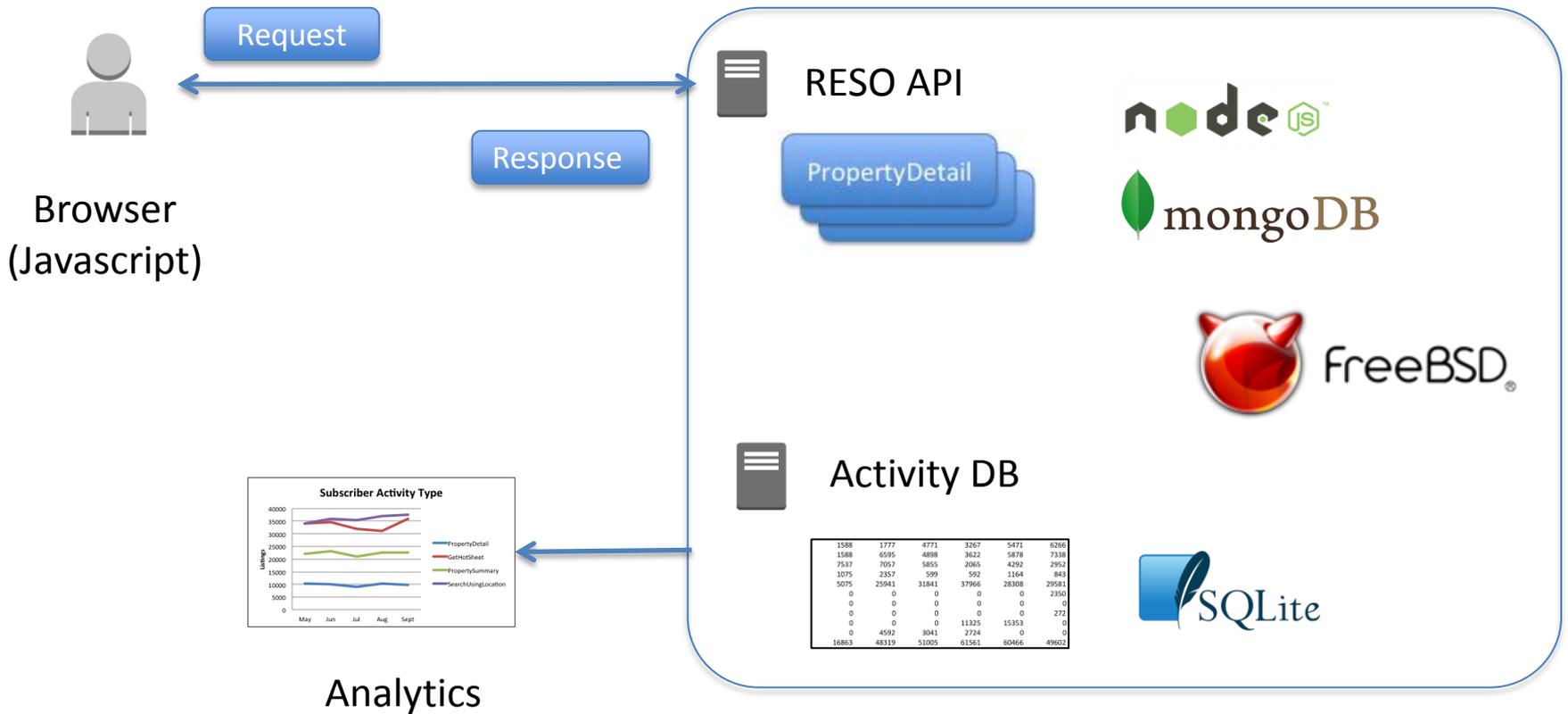
Demo Schematic



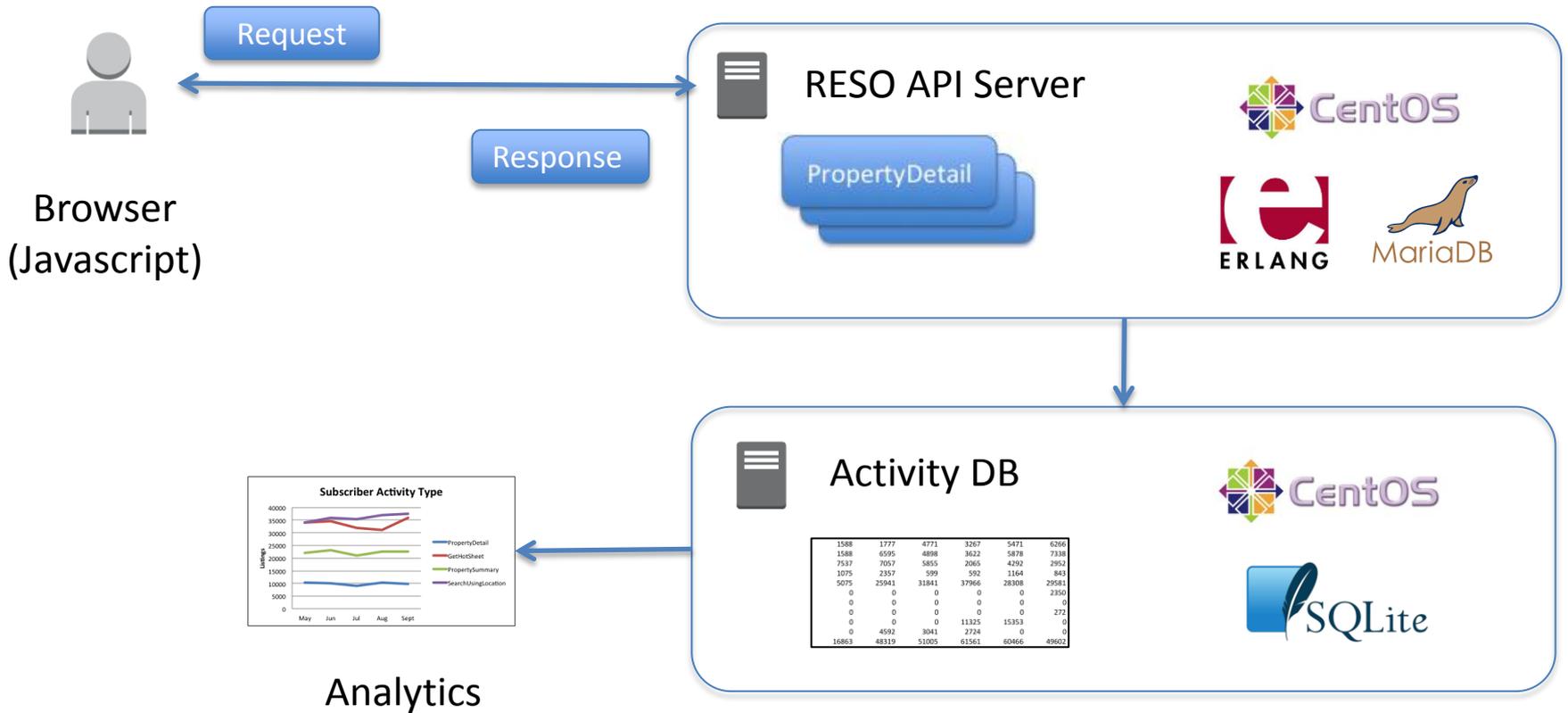


This didn't use the API!

RESO API w/Events: Fast



RESO API w/Events: High Volume



Images from respective communities listed

Relevance Achieved

Data
Dictionary

API
Transport

Event
Catalog