

JSON & eXist 2.0

A Happy Couple

Lagua Web Solutions

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// Stolen!

- ➔ Dojo oriented JSONREST store
- ➔ Inspired by Persevere 2.0

// Y?

- ➔ Don't spend all your money in one place
- ➔ I'm a client guy
 - Client-side templating
 - Client-side localization
 - Client-side validation (JSON Schema)
 - Pure JS DOM generation...
 - ... Through non-JS means

// Client stuff

- ⇒ JSON REST Store
 - Idempotent
 - Widgets
- ⇒ Pluggable Query Engine
- ⇒ RQL: Resource Query Language (FIQL)

// RQL?

- ➔ Clean (compare Lucene)
- ➔ RESTful
- ➔ Sorting
- ➔ Paging
- ➔ Comparison Operators
- ➔ More...

// More?

- ➔ Logical Operators
- ➔ Aggregate
- ➔ Recursion
- ➔ Fn: Xpath
- ➔ Other xquery functions
- ➔ Namespaces

// Querying

- ➔ `/ {model} / {id} paradigm`
- ➔ `?eq(name,test)`
- ➔ `?gt(year,2000)`
- ➔ `?sort(-year)`
- ➔ `?my.func(my.modifier:my.list/my.field)`
- ➔ Range header: `items=0-10`

// Server stuff

➔ XQJSON

➔ XMLDB

➔ XRQL

```
let $query := rql:parse(request:get-query-string())
```

```
let $seq := rql:sequence(  
  collection($store),  
  $query,  
  $maxLimit  
)
```



```
// get
```

```
if($id != "") then
  collection($store)[id = $id]
else
  element {"json:root"} {
    for $item in rql:sequence(
      collection($store),
      $query,
      100
    ) return
      element {"json:value"} {
        attribute {"json:array"} {"true"},
        $item/node()
      }
  }
}
```

// POST / PUT

```
let $xml := xqjson:parse-json($data)
let $xml := my:from-xqjson-to-serializable($xml)
let $id := my:get-id($data)
let $doc :=
  if(exists(collection($store)[id = $id])) then
    base-uri(collection($store)[id = $id])
  else
    $id || ".xml"
return xdb:store($store, $doc, $xml)
```

// TODO

- ➔ Generalize
- ➔ RestXQ?
- ➔ Caching
- ➔ Link resolving
- ➔ Comet / Bayeux / Websockets
- ➔ Validation
- ➔ Content-negotiation

// Thanks!

Q?