CouchWFS (light)

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WFS

BasicWFS Requests Typen

GetCapabilities

DescribeFeatureType

GetFeature

Protokoll

HTTP - REST

Post / Get

XML/GML Response

GetCapabilities: BoundingBox, verfügbare Layer, Koordinatensystem

DescribeFeatureType: GML Schema und Attributmetadaten

GetFeature: Abfrage nach Layer und Boundingbox

CouchWFS (light)

Datenbank

DokumentID

http:// ... /45TT6Z3

Abfrage eines Dokuments

Datenbank

DesignDokument

ViewName

http:// ... /_DESIGN/meindoc/VIEW/meineveiw

Abfrage per View Funktion

Datenbank

DesignDokument

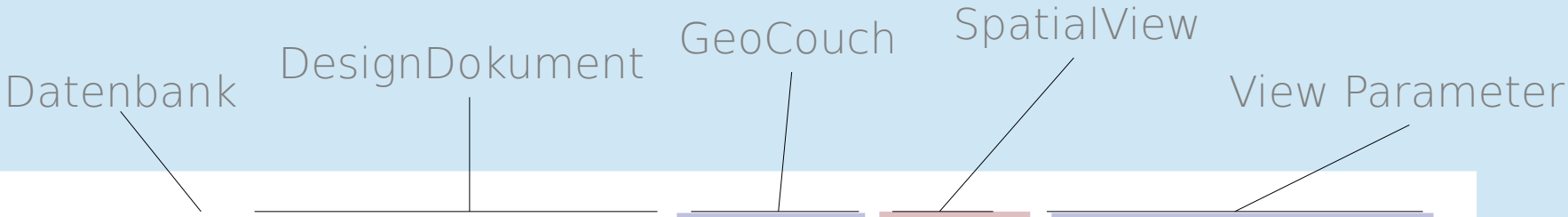
ListFunktion

ViewName

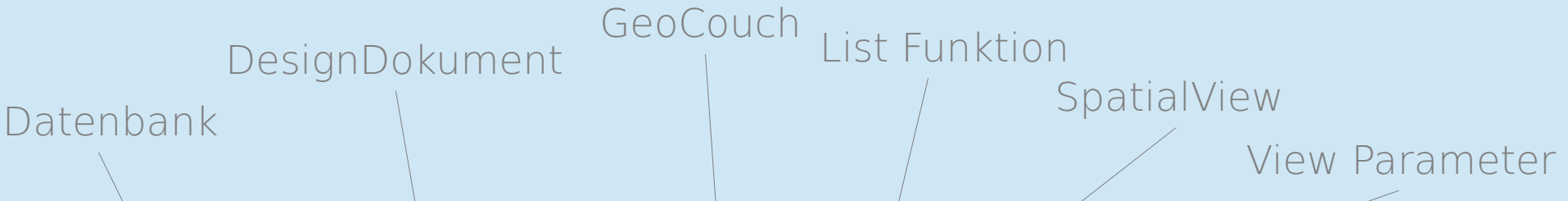
http:// ... /_DESIGN/meindoc/_LIST/meinelist/meineveiw

Abfrage per List Funktion

CouchWFS (light)



Abfrage per Spatial View (und BBOX)



Abfrage per Spatial List (und BBOX)

CouchWFS (light)

GeoCouch

List Funktion

SpatialView

Aufbau der CouchWFS URL

http:// … /rwilb/_design/wfs/_spatial/_list/wfspoint/point?request=GetCapabilities

Datenbank

DesignDokument

GET Parameter

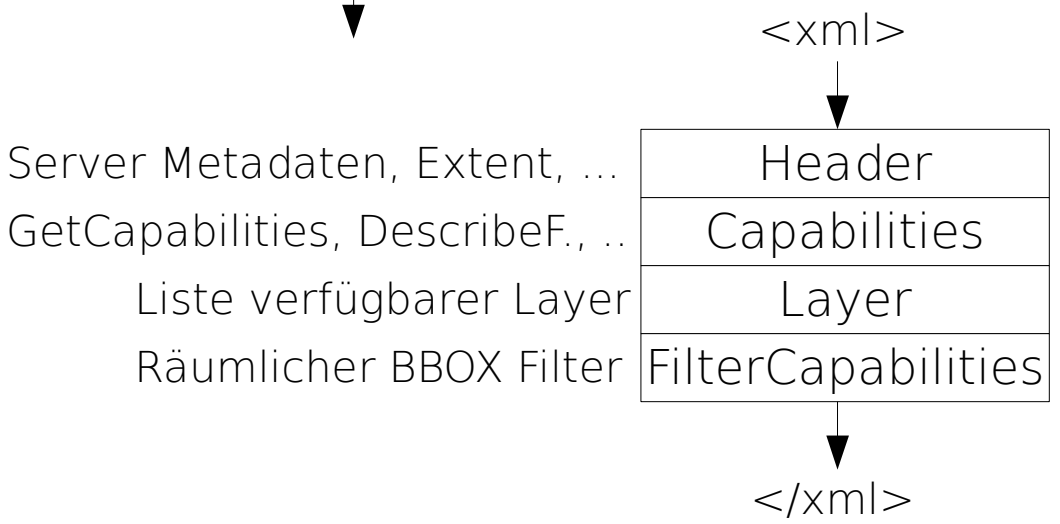
Kann direkt in der LIST Funktion ausgewertet werden

```
if (req.query.request == "GetCapabilities"){
      start({'headers': {'content-type': 'text/xml; subtype=gml/3.1.1'} });
      …
} else { … }
```

Point – List Funktion

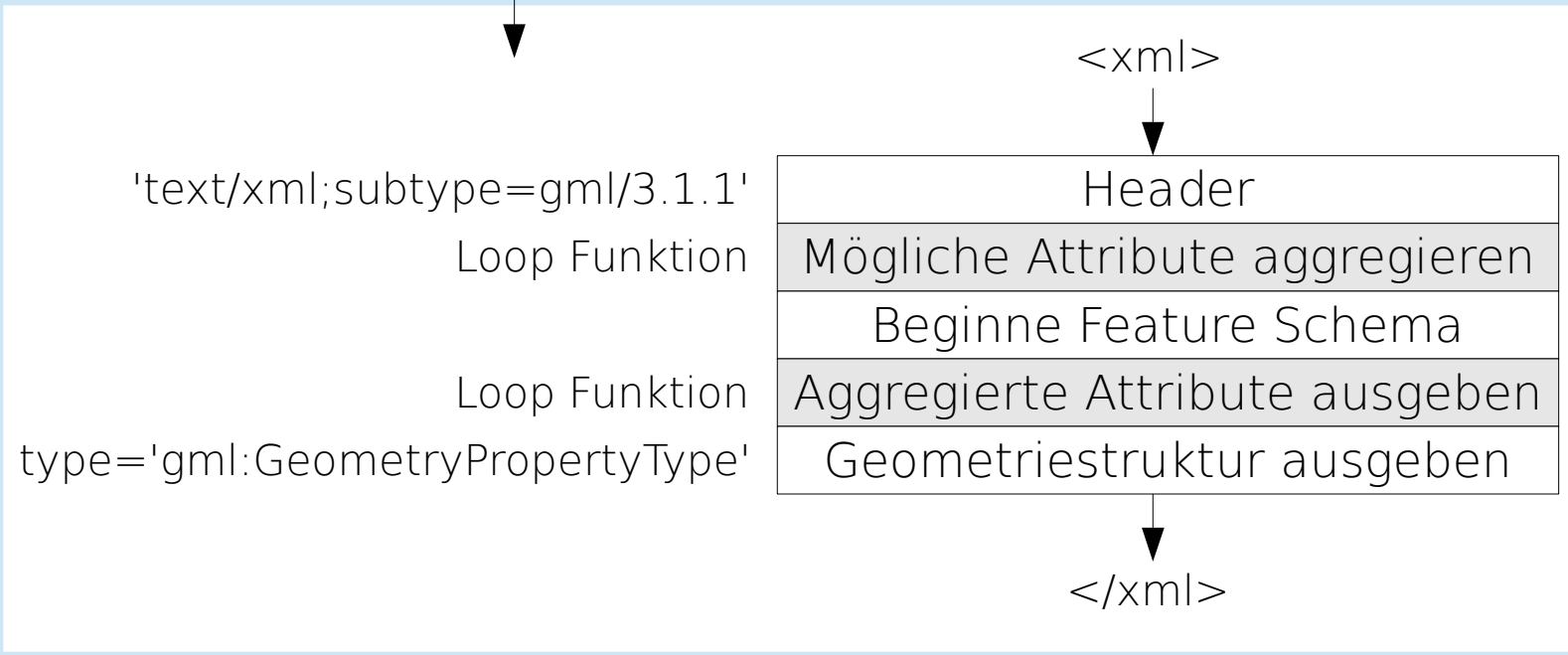
CouchWFS (light)


```
if (req.query.request == "GetCapabilities"){
      start({'headers': {'content-type': 'text/xml; subtype=gml/3.1.1'} });
      ...
```



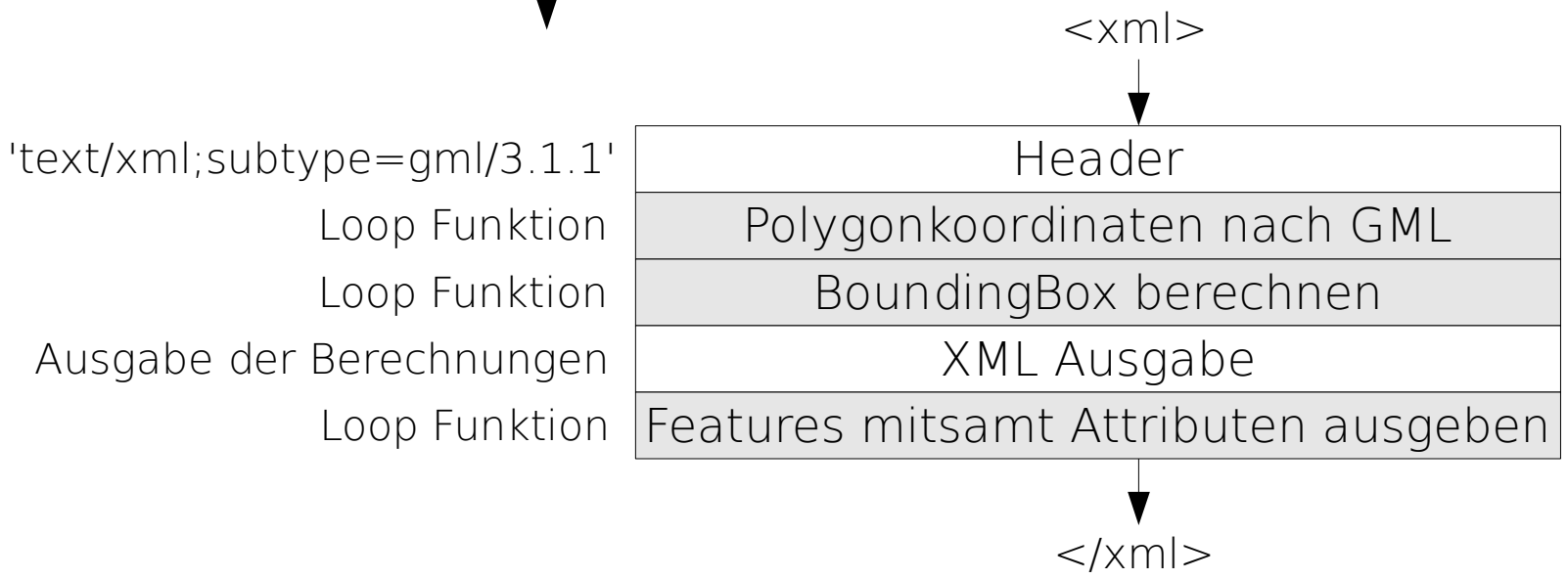
CouchWFS (light)

```
if (req.query.request == "DescribeFeatureType"){
    start({'headers': {'content-type': 'text/xml; subtype=gml/3.1.1'} });
    ...
```



CouchWFS (light)

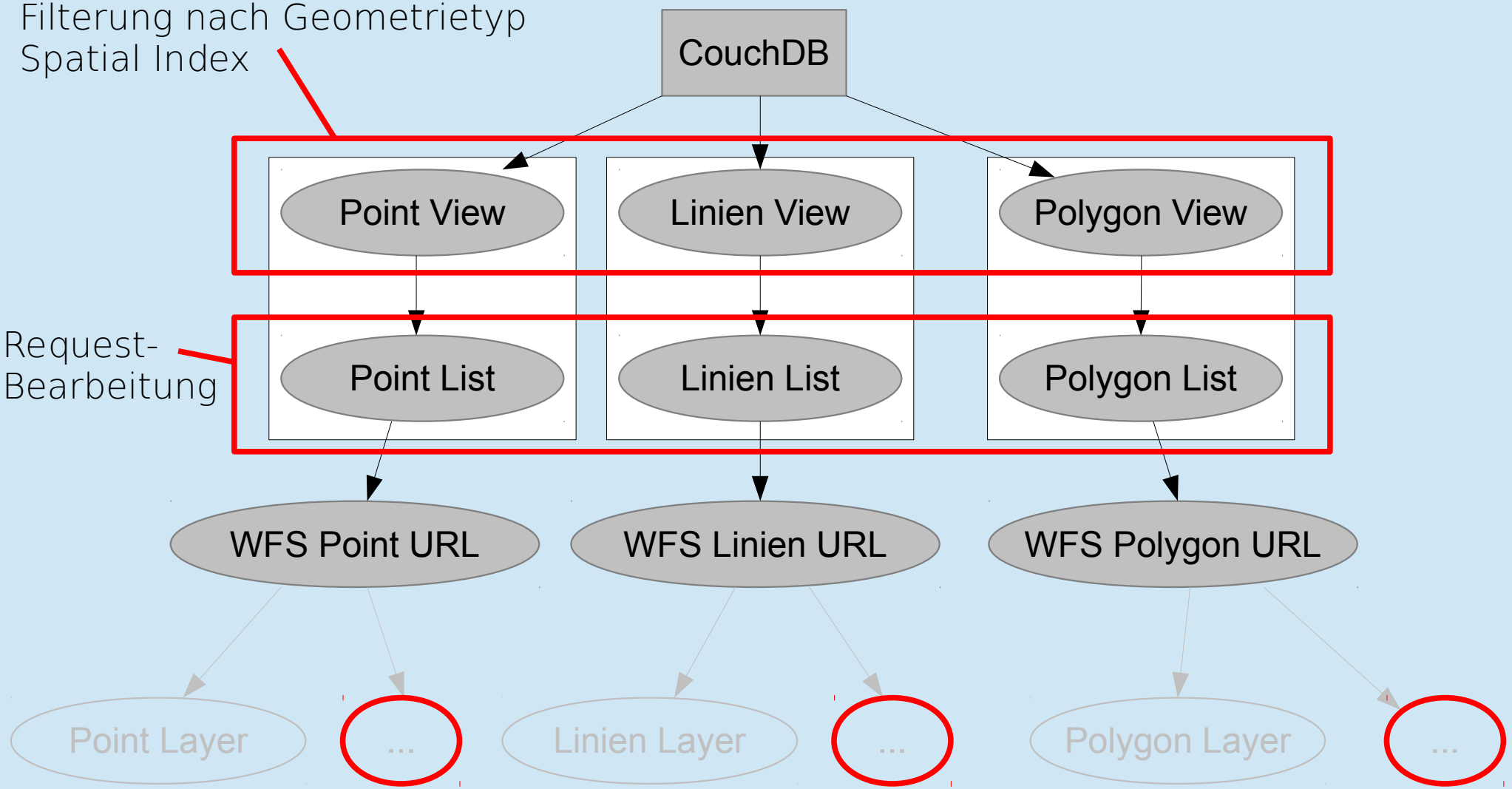
```
if (req.query.request == "GetFeature"){
      start({'headers': {'content-type': 'text/xml; subtype=gml/3.1.1'} });
      ...
```



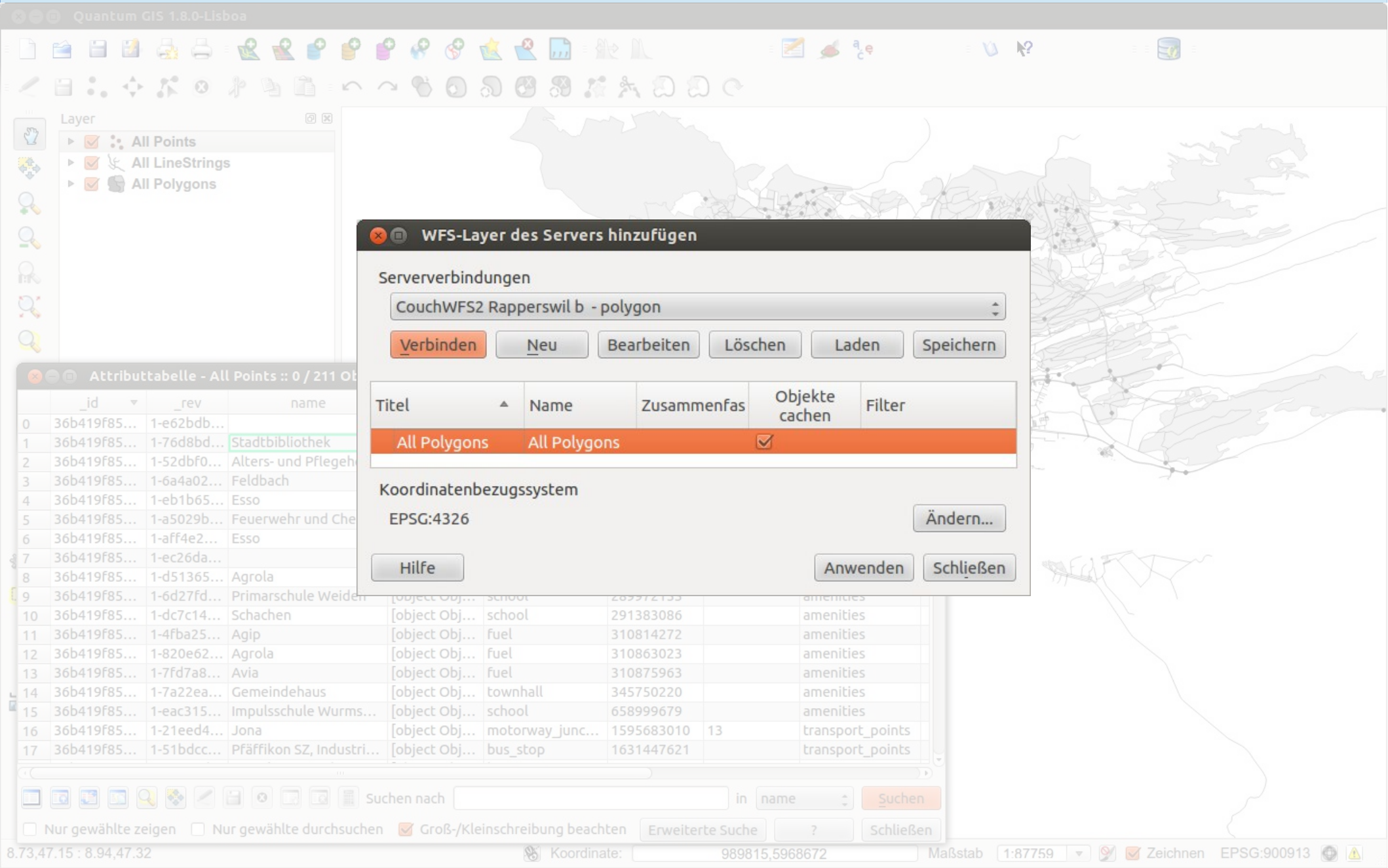
WFS Interface der CouchDB

Vorauswahl
Filterung nach Geometrietyp
Spatial Index

Request-
Bearbeitung



CouchWFS (light)



CouchWFS (light)

CouchWFS Test - Mozilla Firefox

CouchWFS Test

gisforge.no-ip.org:5984/rwilb/_design/wfs/index.html

Google

CouchWFS Test

Konsole | HTML | CSS | Skript | DOM | Netzwerk | Cookies

Leeren | Dauerhaft | Zeitmessung | Alle | Fehler | Warnungen | Info | Debug-Info | Cookies

GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...,47.230092875528,8.881651603698,47.276699433922 200 OK 527ms OpenLayers.js (Zeile 748)
GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...,47.245856307775,8.8751713867189,47.292448997479 200 OK 457ms OpenLayers.js (Zeile 748)
GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...,47.262255787361,8.8357321853639,47.308834045041 200 OK 74ms OpenLayers.js (Zeile 748)
GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...,47.247866463779,8.8558165664674,47.294457384691 200 OK 209ms OpenLayers.js (Zeile 748)
GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...187,47.2319287845,8.8561169738771,47.27853372784 200 OK 402ms OpenLayers.js (Zeile 748)
GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...,47.217443774484,8.8506238098146,47.264061459028 200 OK 597ms OpenLayers.js (Zeile 748)
GET http://gisforge.no-ip.org:5984/rwilb/_design/wfs...,47.193697547586,8.9258544082641,47.286933679264 200 OK 931ms OpenLayers.js (Zeile 748)

>>>

Positive Nebeneffekte

- BoundingBox Requests
- Etags Caching

Negative Nebeneffekte

- Redundante Abfrage
- Geschwindigkeit

CouchWFS (light)

Individuelle WFS URLs

Benutzermanagement per Datenbank (?)

CouchWFS light nicht 100% standardkonform

Einfach zu implementieren

Einfach zu entfernen

SourceCode auf:
https://github.com/scubbx/couchwfs