Share-VDE technological stack
Share-VDE’s engines: the API Layers

Search API

A powerful and highly standardized API exposing Share-VDE’ search capabilities over the HTTP protocol.

It comes in two flavours:

- **GraphQL**, with a rich data dictionary and the flexibility to query and extract only the fields of interest.

- **RESTful**, returning data represented according to the HATEOAS standard.

Knowledge Base

Curation API

An advanced API offering **Prism curation** capabilities.

It takes advantage of the most modern features of **GraphQL** to establish a continuous informational dialogue between the server and the connected clients, so to offer them the most reactive experience possible.
The Technology Stack (back-end)

Search API

GraphQL { REST }
Java spring

Curation API

GraphQL { REST }
Java spring

Stardog
PostgreSQL
Apache Spark
Solr
Cassandra
SNS

elasticsearch

Share VDE
The Technology Stack (front-end)

Component library

Front-end application

React

Sass

GraphQL

TypeScript

Vercel

NEXT.js

Flagsmith

Share VDE
The Technology Stack (front-end architecture)
Share-VDE: Infrastructure

Amazon EC2
Amazon Relational Database Service (Amazon RDS)
AWS Lambda
Amazon Simple Queue Service (Amazon SQS)
Amazon EMR
Amazon Keyspaces (for Apache Cassandra)
Back end: High level component diagram