Share-VDE technological stack

Back end & Front end infrastructure
Back end: High level component diagram

- **Cluster management**
  - Spark
  - Solr
  - Redis
  - Scala
  - Java

- **Datasource**
  - PostgreSQL
  - Stardog

- **Services**
  - Spring
  - GraphQL
  - REST
  - Java

- **Gateway**
  - HTTP

- **Integration**
  - JMS
  - ActiveMQ

- **Configuration**
  - Java
Front end: Adopted technologies

Front end component library:
- React.js for the components
- Webpack to compile the code
- LESS/PostCSS for styling

Front end application:
- React for setting up the layout
- Redux for state management
- NextJS for routing and SSR
- Typescript for better debugging
- GraphQL for flexible back end queries
- Bullet Train (Flagsmith) for toggling features
- Brotli for optimizing load speed