



Navigart

Case study by Nukomeet

Navigart is a web application that helps discover the contemporary collections of French public museums. A user can easily browse and discover artworks along with their metadata information using an innovative real-time search engine.

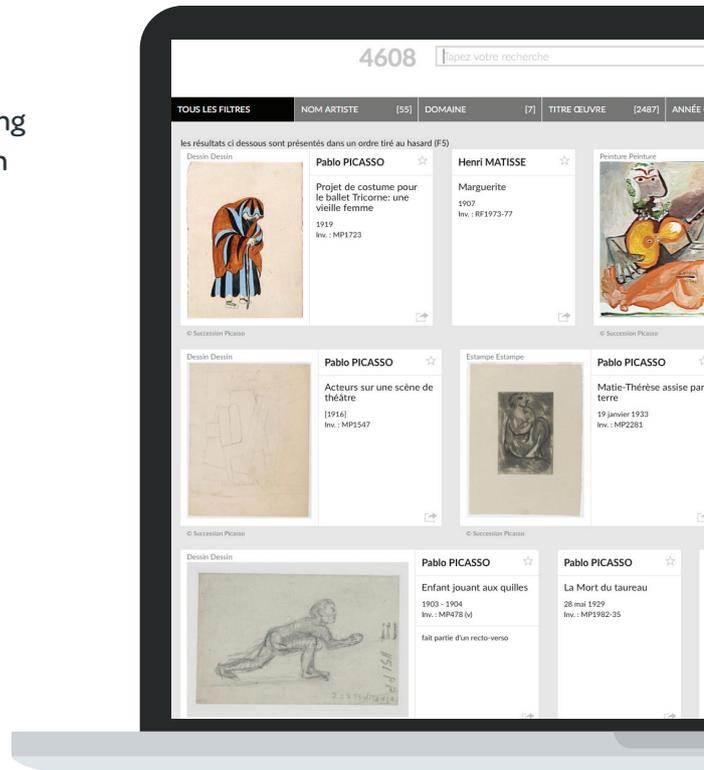
Project background

Videomuseum is a consortium of museums and other public structures managing modern and contemporary art collections (national museums, town, county or regional authority museums, etc) which gathered to develop methods and tools using new technologies to inventory and disseminate the knowledge of the heritage of modern and contemporary art.

Nukomeet intervention was to build a scalable architecture where a search engine on the frontend could easily communicate with the underlying database cluster through a reliable backend engine.

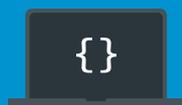
Our involvement

The role of Nukomeet was to conduct the conception and building of the application from scratch. Through consulting with the client, we defined the needs and established detailed specifications and mockups that were used as a roadmap during development. From the very beginning the application was architected to be very robust and also remarkable simple to use.



For this project we opted for a micro service architecture, i.e. we built several independent and loosely coupled services, each with a specific goal.

Services provided



Web

Technologies

We used Ruby API interacting with an Elasticsearch cluster on the backend and AngularJS on the frontend.

AngularJS

The application presents the art in a modern way, making it more available to the broader audience; it helps discover art in a new and innovative manner, allowing users to enjoy culture gathered in museums for years. And it all happens within the browser, making it an ideal partner with any server technology.

Elasticsearch

Elasticsearch is a search server based on Lucene. It provides a distributed, multitenant-capable full-text search engine with a RESTful web interface and schema-free JSON documents. The scope of work required the use of advanced Elasticsearch features such as advanced search queries, aggregations and performance optimizations.

Impact

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over
53 000
artworks

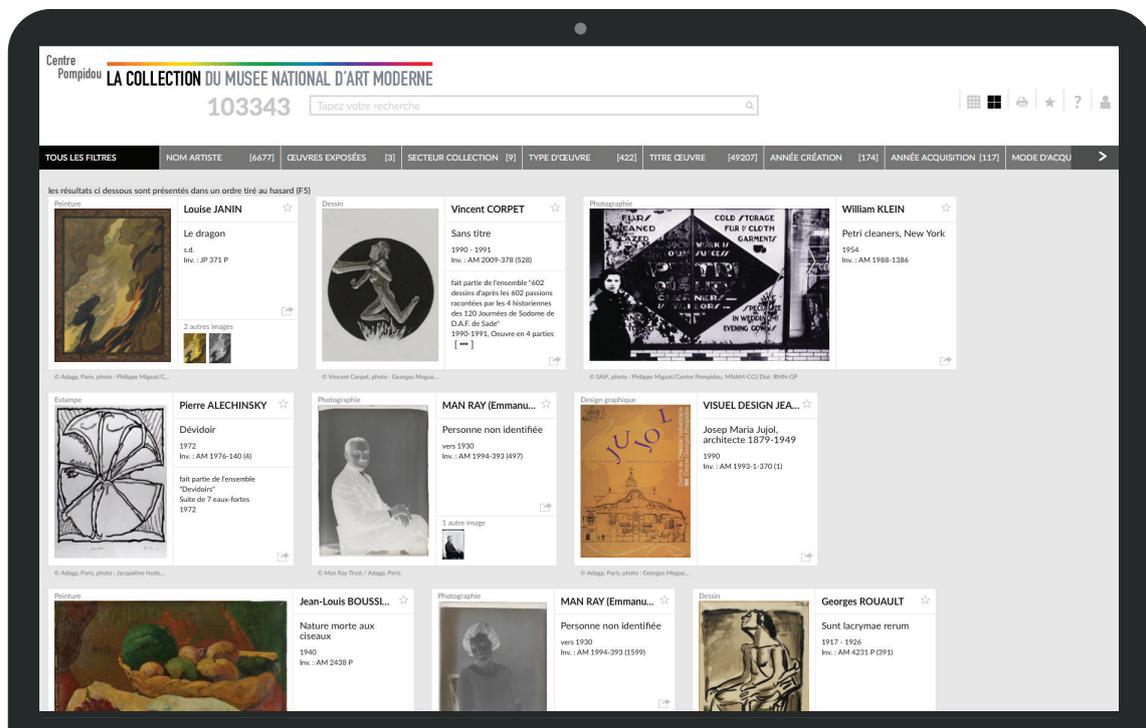
indexed in Navigart
search engine

20
museums

participating in Navigart
programme

Budget

225 000 EUR



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