HIBERNATE SEARCH 7

/ Nouveautés et cas pratiques de la recherche full-text et vectorielle Java



Yoann Rodière Red Hat - Hibernate Search - Quarkus

Katia Aresti Red Hat - Infinispan - Quarkus





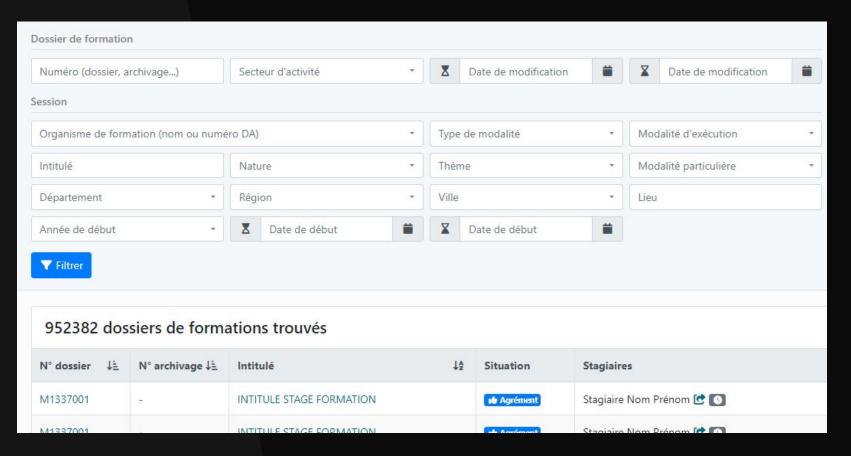
https://www.youtube.com/watch?v=pQJY-Mu-yGA







BDD relationnelle



Source: https://www.kobalt.fr/clients/fafcea

ILIKE

ILIKE '%thé%'

'kinési**thé**rapie' 🗸 🙁





ILIKE '%pommes%'

Perf



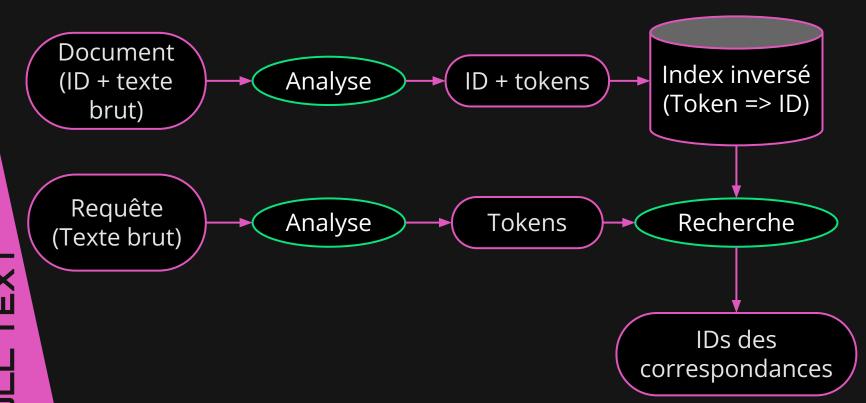
'pomme' 🗶 🙁





Tri

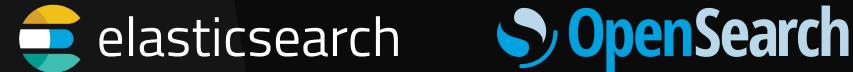




BDD relationnelle









BDD relationnelle





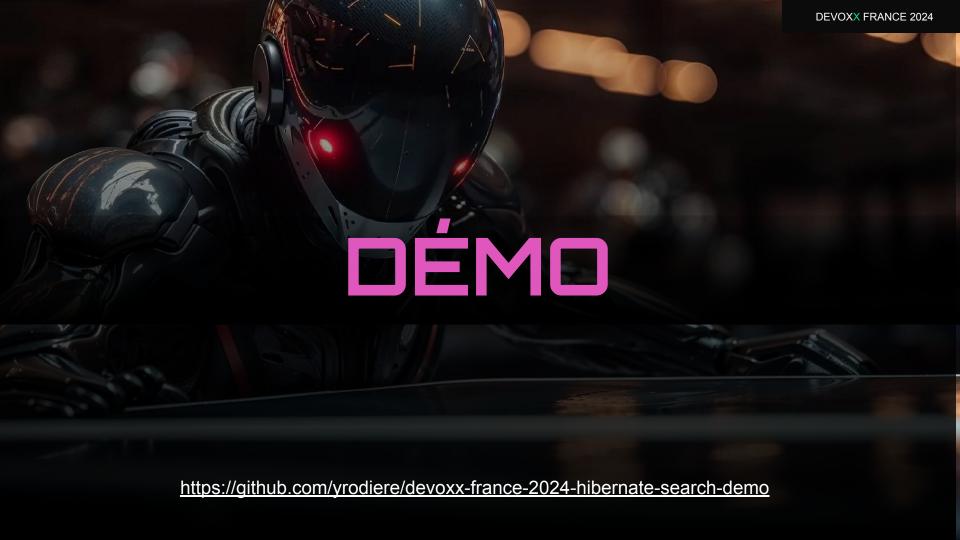
APACHE



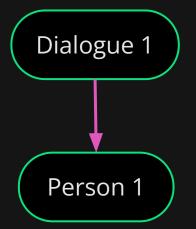




ORM. Lucene. Elasticsearch. Integrated.



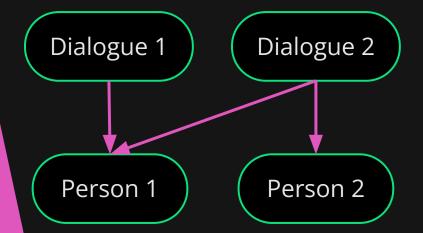
HIBERNATE Entités



TLUCENE Document

Dialogue 1
Person 1

HIBERNATE Entités



TLUCENE Document

Dialogue 1
Person 1

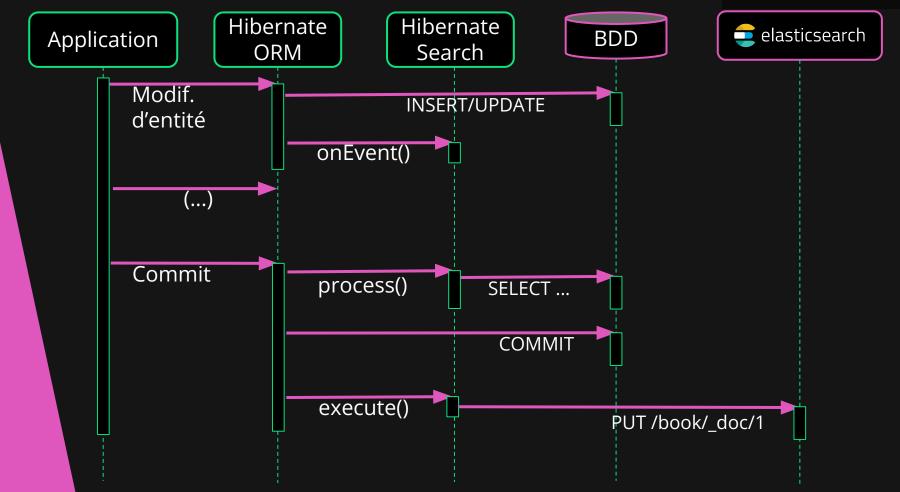
Dialogue 2

Person 1 Person 2

HIBERNATE Entités Place 2 Place 1 Dialogue 2 Dialogue 3 Dialogue 1 Spell 1 Person 1 Person 2

TLUCENE Document









VERSION 6+ 2020

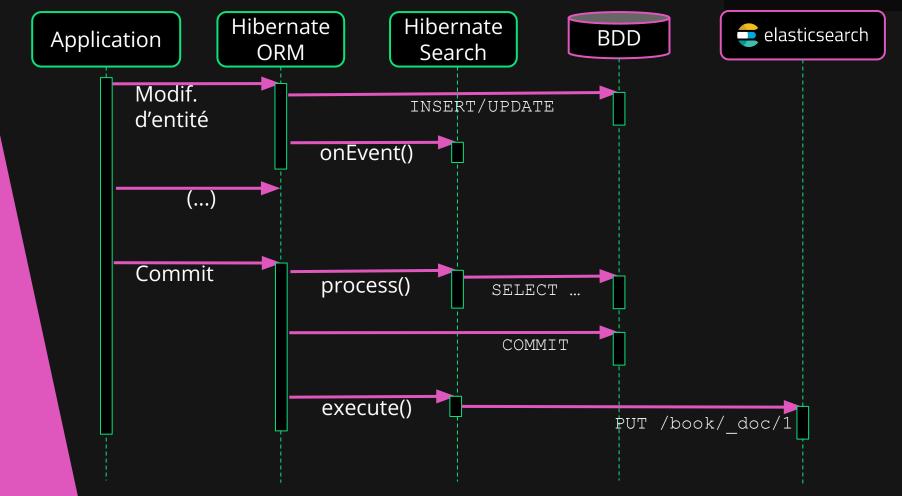


GÉNÉRIQUE

CONCIS

CUSTOMISABLE

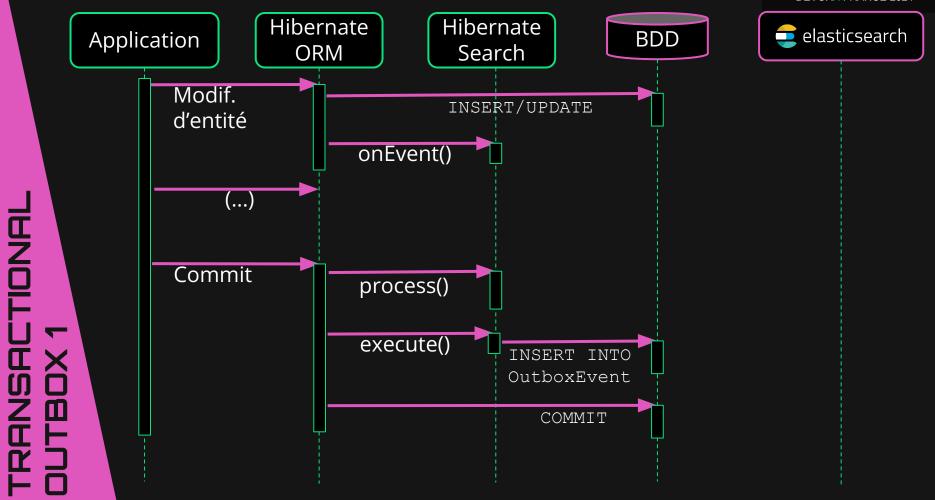
ÉPROUVÉ

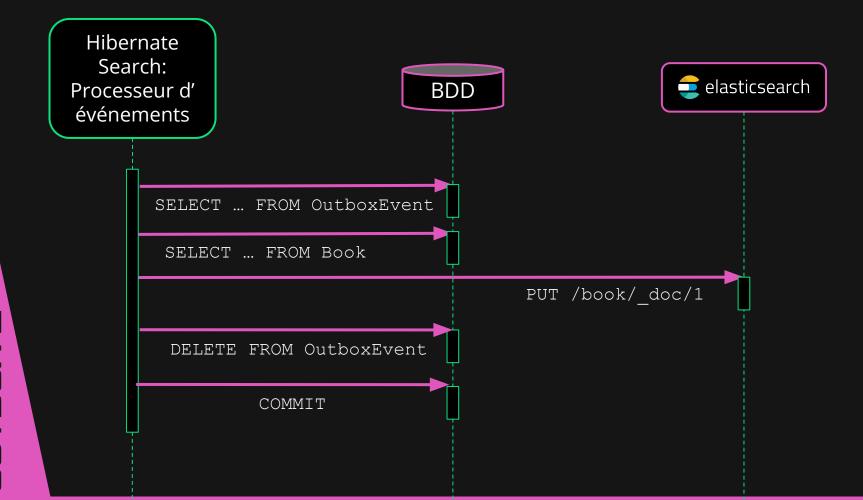




TRANSACTIONAL OUTBOX

https://docs.jboss.org/hibernate/stable/search/reference/en-US/html_single /#coordination-database-polling







TRANSACTIONNEL

Perte d'événement impossible

ASYNCHRONE

Latence minimale

PARTITIONNÉ

Pas de conflits d'indexation Parallélisme



... ET TOUT **AUSSI SIMPLE**

Infrastructure:



Configuration:

```
<dependency>
  <groupId>io.quarkus</groupId>
    <artifactId>
        quarkus-hibernate-search-orm-outbox-polling
  </artifactId>
  </dependency>
```

quarkus.hibernate-search-orm.coordination.strategy
=outbox-polling



STANDALONE POJO MAPPER

https://docs.jboss.org/hibernate/stable/search/getting-started/standalone/en-US/html_single/index.html#mapper-pojo-standalone-getting-started



Hibernate Search + intégration custom



TLUCENE.



INFINISPAN



https://infinispan.org/ https://infinispan.org/docs/stable/titles/query/query.html

INFINISPAN EMBEDDING STORE







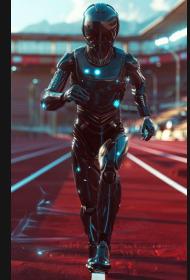


VERSION 7 2023 / 2024











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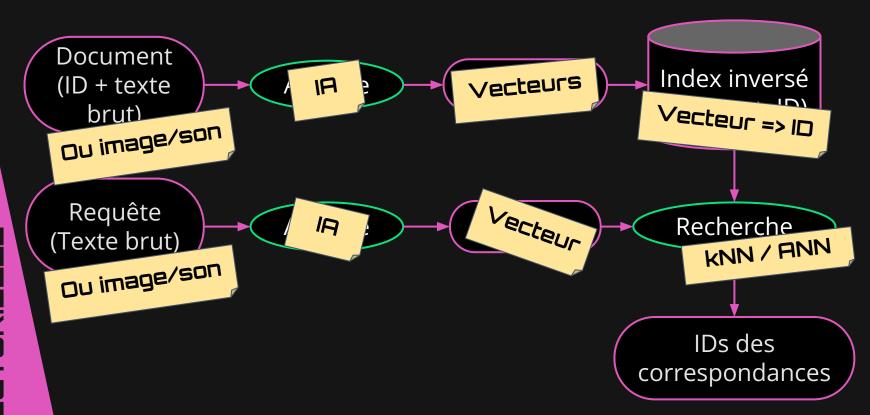
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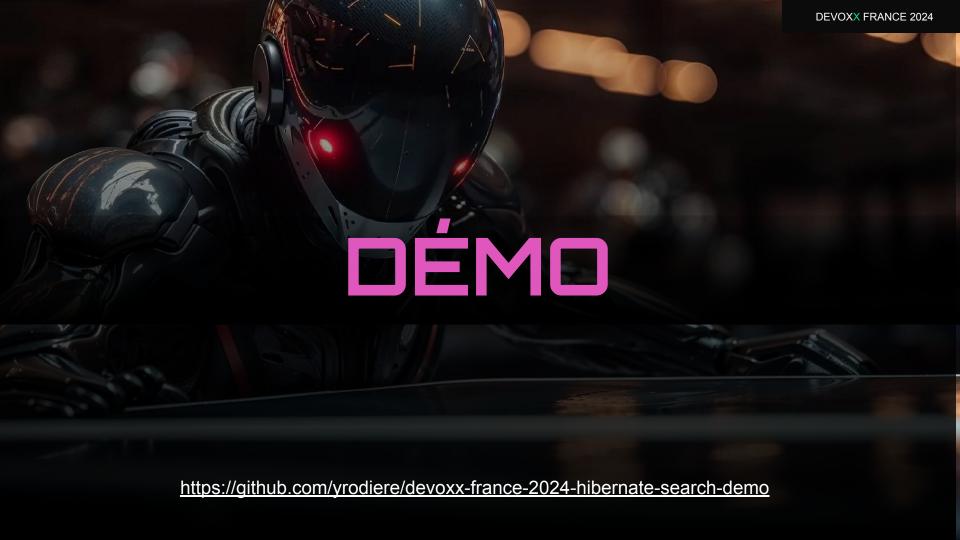
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•••

-0.4750,

-0.4254]







STAY TUNED

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MERCI!

https://quarkus.io/



https://hibernate.org/search/





DEVOXFRANCE

La recherche à l'ère de l'IA par David Pilato (Elastic)

La recherche sous stéroïdes - une histoire de sémantique par Mathilde Rigabert et Martin Labenne (Jolimoi)

Apache Lucene : de l'indexation textuelle à l'intelligence artificielle par Lucian Precup (Adelan)

... et encore plus