

A photograph of a glass of coffee with latte art, sitting on a desk next to a laptop. The coffee is in a clear glass with a thick layer of foam and a white leaf-like design. In the background, there is a white cup on a saucer and a laptop keyboard.

Jakarta Data

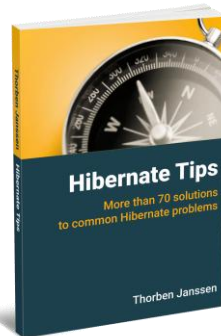
Was ist das
denn?

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Co-Organizer
JUG Paderborn



hibernate-tips.com



Persistence Hub

persistence-hub.com

thorben-janssen.com



thorben-janssen.com



@thjanssen123

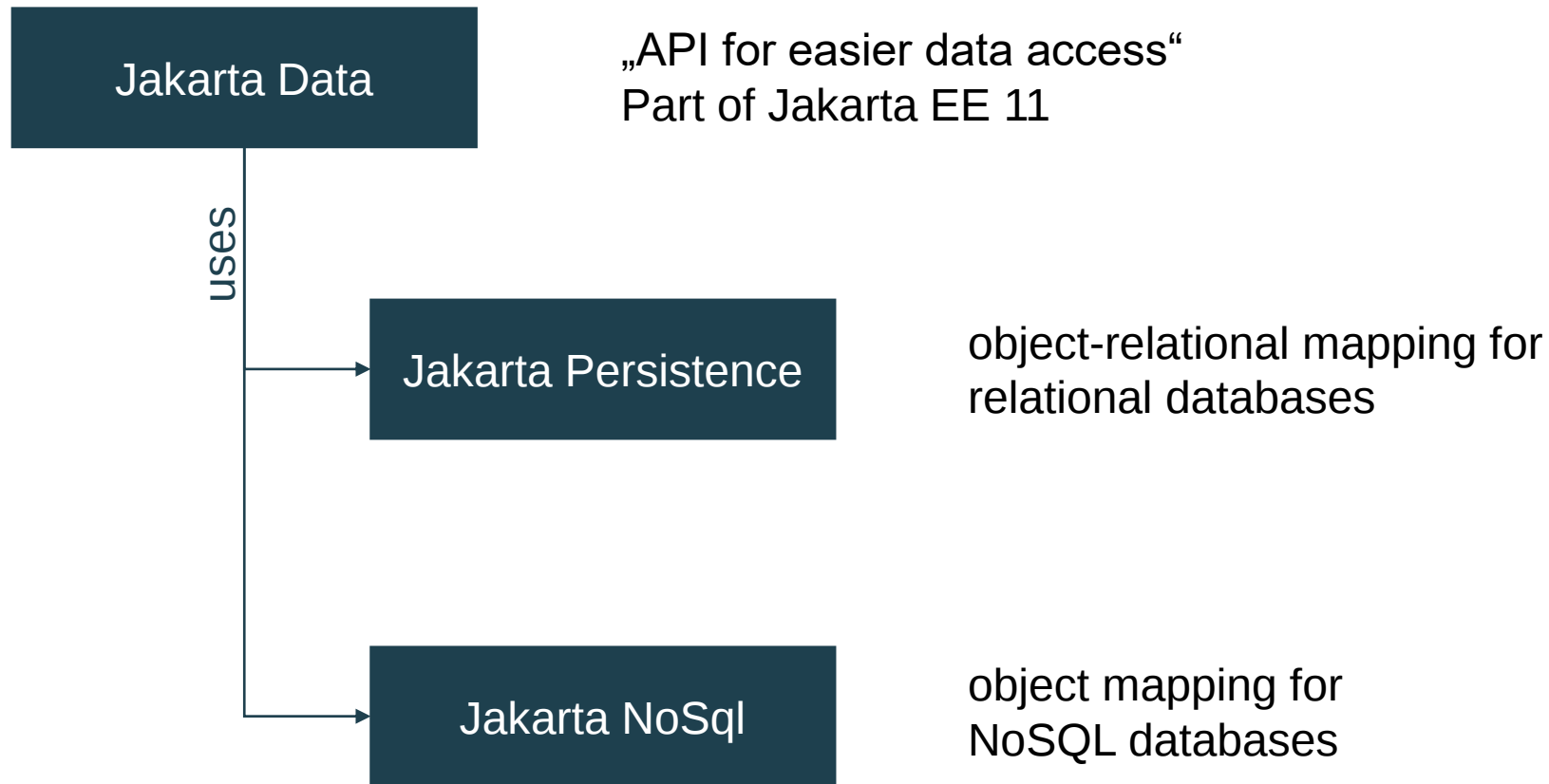


/c/ThoughtsOnJava



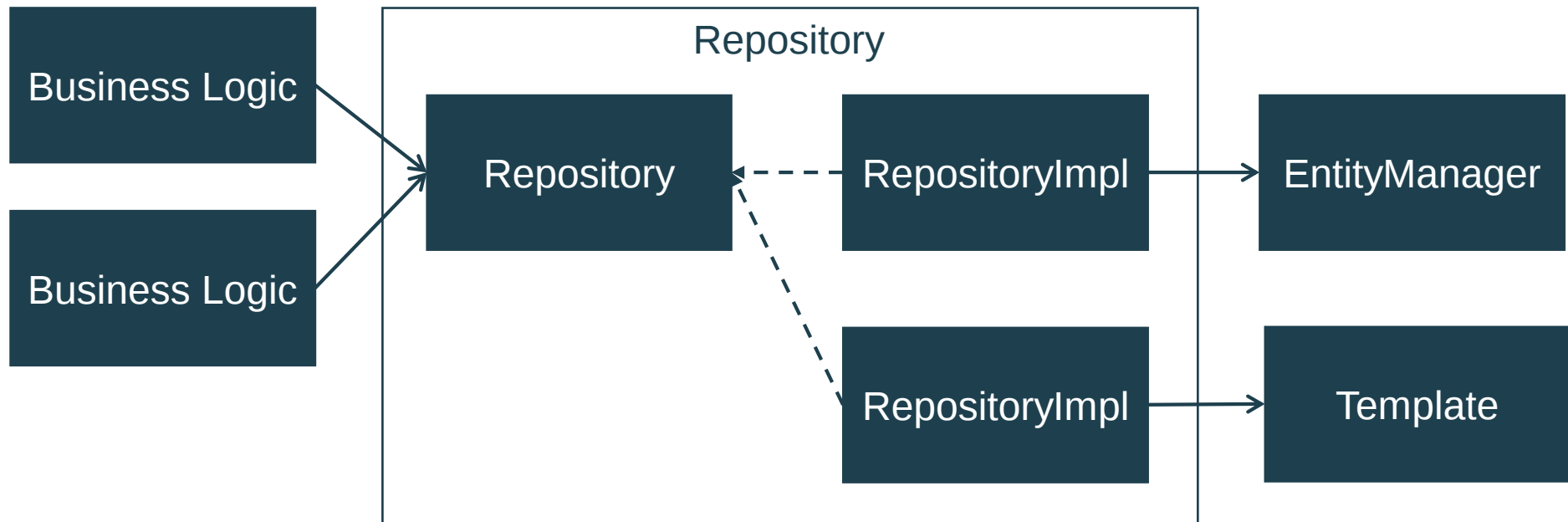
thorbenjanssenofficial

Jakarta Data



Repository

- Abstract data store



Jakarta Data with Hibernate

- Support since Hibernate 6.6
- Compile-time generation
 - Repository implementation
 - Query-validation

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-compiler-plugin</artifactId>
  <version>3.11.0</version>
  <configuration>
    <annotationProcessorPaths>
      <path>
        <groupId>org.hibernate.orm</groupId>
        <artifactId>hibernate-jpamodelgen</artifactId>
        <version>${hibernate.version}</version>
      </path>
    </annotationProcessorPaths>
  </configuration>
</plugin>
```

Code Samples

Programming Model

	Persistence	Data
Persistence contexts	Stateful	Stateless
Gateway	EntityManager interface	User-written @Repository interface
Underlying implementation	<u>Session</u>	<u>StatelessSession</u>
Persistence operations	Generic methods like find(), persist(), merge(), remove()	Typesafe user-written methods annotated @Find, @Insert, @Update, @Save, @Delete
SQL execution	During flush	Immediate
Updates	Usually implicit (dirty checking during flush)	Always explicit (by calling @Update method)
Operation cascading	Depends on CascadeType	Never
Lazy fetching	Implicit	Explicit using <u>StatelessSession.fetch()</u>
Validation of JPQL	Runtime	Compile time

Source: Introducing Hibernate Data Repositories

https://docs.jboss.org/hibernate/orm/6.6/repositories/html_single/Hibernate_Data_Repositories.html#resource-accessor-method

Code Samples

Jakarta Data 1.1

- Planned for Nov 2025
- Features
 - Various query improvements
 - Query projections
 - Lifecycle events based on CDI
 - Reactive patterns
 - Config via Jakarta Config

Questions?



Jakarta Data – Was ist das denn?

[github.com/Persistence-Hub/
Talk_JakartaData](https://github.com/Persistence-Hub/Talk_JakartaData)



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