VERSION 11 NEW RELEASE

JAKARTA EE 11

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JAKARTA EE 11
FEATURES AND BENEFITS

Jakarta EE 11 marks a significant step forward in simplifying enterprise Java with a strong focus on increasing developer productivity and performance. This release introduces new specifications and major updates to existing ones, ensuring compatibility with Java 17 and optimisations for Java 21.

DEVELOPER PRODUCTIVITY

The new Jakarta Data specification simplifies data access and enhances productivity by separating persistence logic across databases from the model using a simple interface.

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PERFORMANCE

The new release supports Java 17 or higher, with unique enhancements for those using Java 21 or above, such as:

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Jakarta EE 11 brings significant API enhancements across multiple specifications, incorporating features highly anticipated by the global community.

Key updates include:

- Java SE Records can now be marked as @Embeddable or @IdClass in Jakarta Persistence 3.2.
- Validation rules can be applied to Java SE Records in Jakarta Validation 3.1.
- Jakarta Persistence 3.2 automatically maps java.time.Instant and java.time.Year as built-in types.
- The use of java.util/java.sql Date/Time/Timestamp/Calendar and @Temporal is deprecated in Persistence 3.2, in favor of the java.time API.
- An EntityManager can now be @Injected with a defined Jakarta Contexts and Dependency Injection (CDI) scope in Persistence 3.2.

Read more

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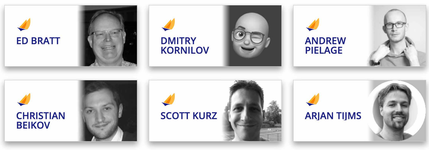
INNOVATION



32	44	58	129
PROJECTS	SPECIFICATIONS	GIT REPOSITORIES	COMMITTERS

Jakarta EE 11 Community Interviews

Jakarta EE 11 is here and we want to celebrate our dedicated community by highlighting the passion and creativity that helped make this release possible. Let's hear it from our community members about what this new release means to them.

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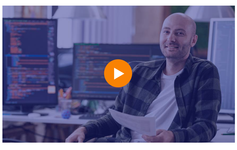

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DEVELOPER PRODUCTIVITY

Jakarta Data: The new Jakarta Data specification simplifies data access and enhances productivity by separating persistence logic across databases from the model using a simple interface. Key features include:

- BasicRepository: A built-in repository supertype for performing basic operations on entities.
- CrudRepository: Facilitates basic CRUD operations, making database interactions more straightforward and less error-prone.
- Pagination: Support for two types of pagination: offset and Cursor.
- Query Language: a streamlined query language designed to specify the semantics of query methods within Jakarta Data repositories.

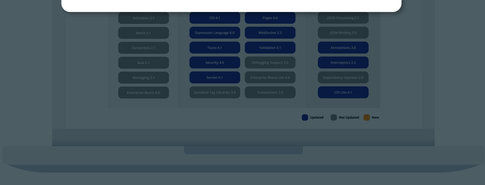
Streamlining the Platform:

- Deprecated Specifications: The continued removal of outdated specifications to streamline and simplify development
- Contexts and Dependency Injection (CDI) Enhancements: Jakarta EE 11 release focuses on the continued shift towards CDI centricity, including replacing Managed Beans with superior CDI alternatives.
- XML and REST Simplifications: Note the removal of Jakarta XML Binding from Jakarta RESTful Web Services to streamline and focus the framework's capabilities.
- Embracing Records throughout the release
- Deprecation of the SecurityManager
- Removal of optional features
- General cleanup and clarifications (continued from Jakarta EE 10)

Jakarta Validation supporting Java Records:

- This integration allows developers to use Java Records with Jakarta Validation to ensure data integrity and reduce boilerplate code.

Close



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- An EntityManager can now be @Injected with a defined Jakarta Contexts and Dependency Injection (CDI)-scope in Persistence 3.2.
- Jakarta Concurrency 3.1 introduces support for Java SE Virtual Threads in managed resources, such as via @ManagedExecutorDefinition.
- Persistence 3.2 enhances query capabilities with various SQL-like features such as concat (||), union, intersect, except, cast, left, right, and replace.
- Persistence units can be configured using java, providing an alternative to the persistence.xml file in Persistence 3.2.
- Producers can now specify an @Priority using CDI 4.1.
- The @Context annotation has been deprecated in Jakarta RESTful Web Services 4.0.
- Specifications for Jakarta SOAP with Attachments and Jakarta XML Binding have been removed from the Jakarta EE 11 platform.
- The requirement for Common Object Request Broker Architecture (CORBA) interoperability has been eliminated.
- The @jakarta.annotation.ManagedBean annotation is deprecated.
- All specifications in Jakarta EE 11 have removed dependencies on the Java SE SecurityManager.

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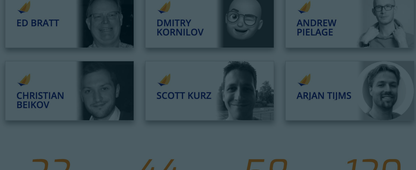

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