



Java CDI

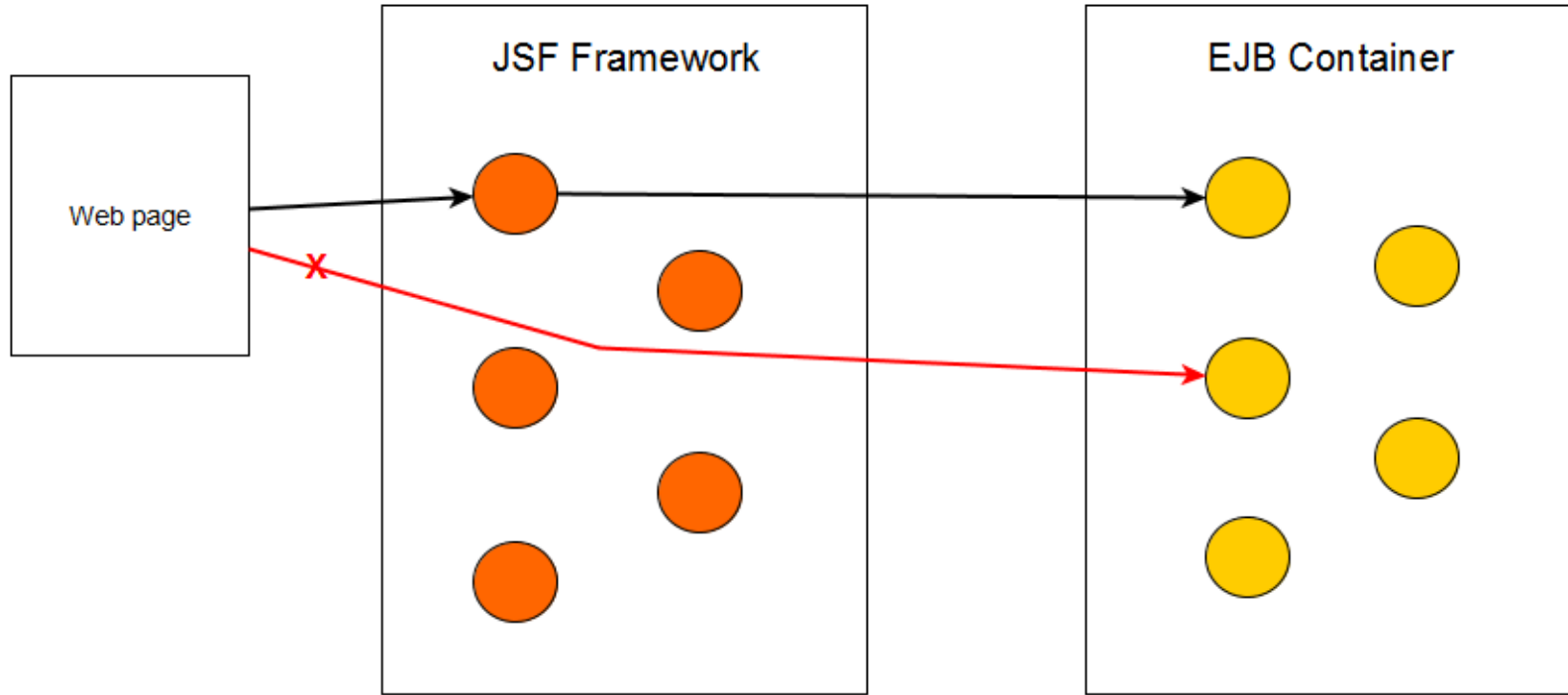
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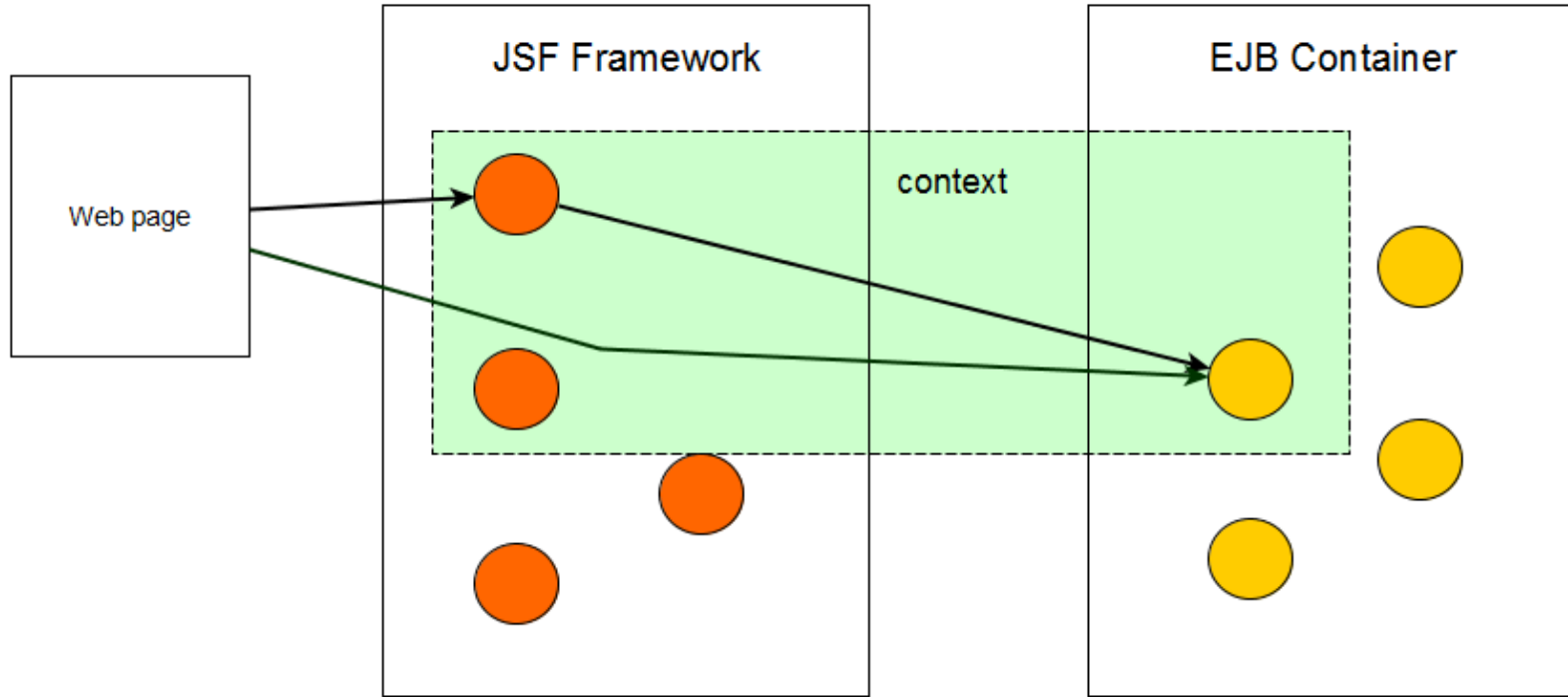
JSR-000346

- part of the JEE standard
- typesafe dependency injection
- lifecycle for stateful objects bound to lifecycle contexts
- typesafe interceptor bindings
- decorators
- event notification model and more...

JSF without CDI



JSF with CDI



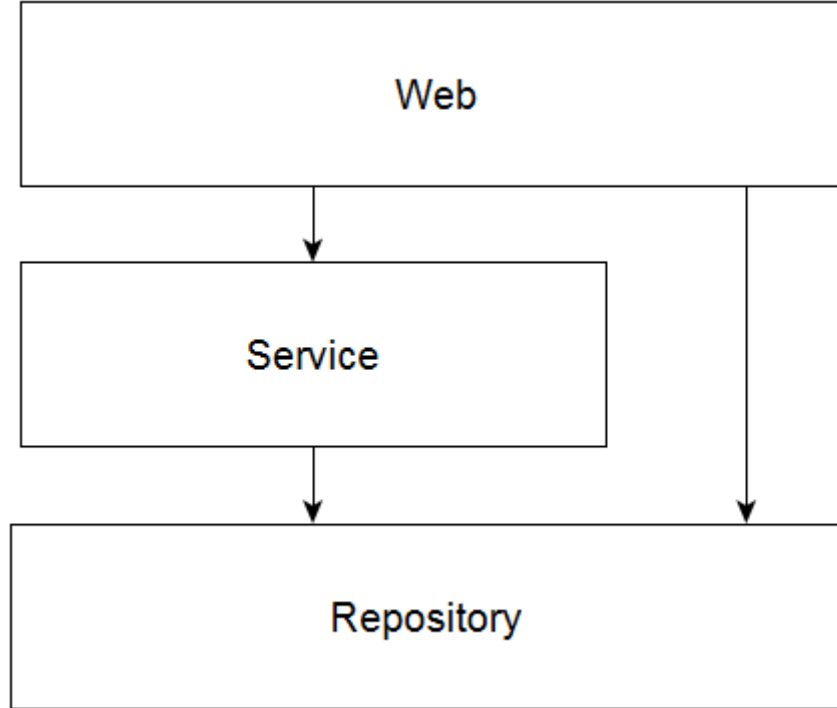
Several implementations

- JBoss Weld
- Apache OpenWebBeans

Penetrates other JEE specs

- EJBs and Named beans as contextual instances
- Named beans usage within a JSF page
 - @Named EJB as JSF Managed bean
- Interceptors, Bean Validators, etc... can use injection

Architecture



@Inject and @Qualifier

- constructor , field, method, method parameter
- qualified injection
 - no direct dependency on implementation
- static injection
 - concrete type of injected bean is known

@Alternative

- must be explicitly enabled in beans.xml
 - otherwise bean is unavailable for injection
- deployment-type polymorphism
 - different bean injection for dev, test and prod

@Produces

- provides runtime polymorphism
 - concrete type of the bean to be injected may vary at runtime
- factory pattern
- produces scoped instances for injection
 - practically instance of any class
 - EntityManager, JMS factory and destination...

@Interceptor

- cross-cutting concerns implementation
 - security, transactions, auditing...
- abstraction of EJB 3 interceptors
- interceptors binding
 - type-safe interceptor association to beans
- interceptors enabling and priority
 - @Priority or beans.xml
- invocation context

@Decorator

- business concerns implementation
 - bean that is business semantics aware of decorated bean
- decorator has delegate injection point
 - injection of beans of same type it decorates
 - can be qualified
- decorators enabling and priority
 - @Priority or beans.xml

Scope

- bean is in a scope and is associated with context
- context manages life cycle and visibility of all beans in scope
 - @RequestScoped, @SessionScoped, @ApplicationScoped, @ConversationScoped, @Dependent (default scope)
 - contextual reference is proxy except for @Dependent scope
 - new scope can be defined using extensible scope model

@Stereotype

- encapsulates architectural patterns or common metadata
 - scope, interceptor bindings, qualifiers, and other properties
- a stereotype is a meta-annotation annotated with @Stereotype

Events

- annotation-based event model based upon the observer pattern
- decoupled communication among beans
- qualified events
- transactional observers

Life cycle callback

- @PostConstruct
- @PreDestroy

Portable extensions

- container functionality extensions using SPI
 - providing its own beans, interceptors, and decorators to the container
 - providing a contextual implementation for a custom scope, and more...
 - Apache DeltaSpike: <https://deltaspike.apache.org/>

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DOVIDENIA

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