

Domain Object Annotations

@DomainObject @DomainObjectLayout
@Property, @PropertyLayout
@Collection, @CollectionLayout
@Action, @ActionLayout
@Parameter, @ParameterLayout
@Title, @HomePage, @MinLength,
@MemberSupport, @Programmatic
@javax.inject.Inject, @javax.annotation.Nullable
@lombok.Data, @lombok.ToString, @lombok.Builder,
@lombok.RequiredArgsConstructor

Layout

Xxx.layout[.layoutName].xml, *Xxx.layout.xml*,
Xxx.layout.fallback.xml > @XxxLayout
String title(), String iconName(), String cssClass(),
String layout()

JPA Entities (javax.persistence)

@Entity, @Table, @NamedQueries,
@Id, @Version, @Column, @Transient

JDO Domain Entities (javax.jdo.annotation)

@PersistenceCapable, @DatastoreIdentity
@Inheritance, @Discriminator; @Version
@Queries, @Uniques, @Indices, @NotPersistent
@Column, @PrimaryKey, @Join, @Element

JAXB View Models (javax.xml.bind.annotation)

@XmlRootElement; @XmlType
@XmlAccessorType; @XmlTransient
referenced entities:
@XmlJavaTypeAdapter(PersistentEntityAdapter.class)

Domain Services (Menu or REST API)

@DomainService @DomainServiceLayout
@PostConstruct, @PreDestroy (javax.annotation)
@javax.inject.Inject

Domain Services (org.springframework)

@Component, @Service, @Repository, @EventListener

Layout

menubars.layout.xml > @DomainServiceLayout

Mixins

@Property, @PropertyLayout
@Collection, @CollectionLayout
@Action, @ActionLayout

Methods: Actions

placeOrder(X x, Y y, Z z)
boolean hidePlaceOrder(); String disablePlaceOrder()
boolean hide{0|1|2}PlaceOrder(X|Y|Z);
String disable{0|1|2}PlaceOrder(X|Y|Z);
String validate{0|1|2}PlaceOrder(X|Y|Z);
String validatePlaceOrder(X x, Y y, Z z)
Collection<X|Y|Z> autoComplete{0|1|2}PlaceOrder
(X|Y|Z, search) (2 args)
Collection<X|Y|Z> choices{0|1|2}PlaceOrder(X|Y|Z)
X|Y|Z default{0|1|2}PlaceOrder();
String namedPlaceOrder()

Methods: Properties

@lombok.Getter, @lombok.Setter;
getEmail(), setEmail(); boolean hideEmail();
String disableEmail(); String validateEmail(X);
Collection<..> autoCompleteEmail(),
Collection<..> choicesEmail(); String namedEmail()

Methods: Collections

@lombok.Getter, @lombok.Setter;
List<Order> getOrders(); boolean hideOrders();
String disableOrders(); String namedOrders()

Events

@DomainObject(xxxLifecycleEvent=....)
@DomainObjectLayout(xxxUiEvent=....)
@Action(domainEvent=....) @Property(domainEvent=...)
@Collection(domainEvent=...)
subscribe using Spring's @EventListener

RepositoryService

allMatches(Query) & QueryDefault(...), persist(), remove()

(some) other Applib Services

MessageService, FactoryService, ClockService,
WrapperFactory, EventBusService, BookmarkService,
InteractionService, TransactionService, MetaModelService

Error & Exception Handling

RecoverableException, NonRecoverableException

Value Types

8 primitive types + wrappers; BigDecimal, BigInteger;
java.util.Date, java.time.{LocalDate|LocalDateTime|
LocalTime} dates; JODA dates; java.sql.{Date|Time|
Timestamp}; enums; value types library

Bootstrapping

@SpringBootApplication; @SpringBootTest;
@Configuration; @Import; @ComponentScan