

Domain Objects (entities + view models)

@DomainObject @DomainObjectLayout
@ViewModel, @ViewModelLayout
@Property, @PropertyLayout
@Collection, @CollectionLayout
@Action, @ActionLayout
@Parameter, @ParameterLayout
@Title, @MemberOrder, @MemberGroupLayout
@HomePage, @MinLength, @Programmatic
@javax.inject.Inject – inject services into object
@javax.annotation.Nullable
@javax.validation.constraints.Digits

@lombok.Data; @lombok.Builder;
@lombok.AllArgsConstructor

Layout

Xxx.layout.xml more flexible than @XxxLayout
title(), iconName(), cssClass()

Domain Entities (javax.jdo.annotation)

@PersistenceCapable, @DatastoreIdentity
@Inheritance, @Discriminator; @Version
@Queries, @Query;
@Uniques, @Unique; @Indices, @Index
@Persistent, @NotPersistent
@Column, @PrimaryKey, @Join, @Element
@XmlJavaTypeAdapter(PersistentEntityAdapter.class)
www.datanucleus.org/products/datanucleus/jdo/annotations.html

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

@XmlRootElement; @XmlType
@XmlAccessorType; @XmlTransient

Domain Services

@DomainService @DomainServiceLayout
@Action, @MemberOrder (not props or colls)
@PostConstruct; @PreDestroy (javax.annotation)
@javax.enterprise.context.RequestScoped
@javax.inject.Inject – inject services into service

Domain Service Subscribers

AbstractSubscriber convenience superclass
@org.axonframework.eventhandling.annotation.EventHandler
@com.google.common.eventbus.Subscribe

Mixins

@Mixin; 1-arg constructor of the mixee
Mixin props or colls require @Action(semantic=SAFE)

Methods: Actions

placeOrder(X x, Y y, Z z)
hidePlaceOrder(); disablePlaceOrder()
validate{0|1|2}PlaceOrder(X|Y|Z);
validatePlaceOrder(X x, Y y, Z z)
autoComplete{0|1|2}PlaceOrder(X,Y)
choices{0|1|2}PlaceOrder(X,Y) (n-1 args)
default{0}PlaceOrder()

Methods: Properties

@lombok.Getter, @lombok.Setter;
getName(), setName();
hideName(); disableName(); validateName()
autoCompleteName(), choicesName()

Methods: Collections

@lombok.Getter, @lombok.Setter;
getOrders(); hideOrders(); disableOrders();

Events

@DomainObject(xxxLifecycleEvent=....)
@DomainObjectLayout(xxxUiEvent=....)
@Action(domainEvent=....) @Property(domainEvent=....)
@Collection(domainEvent=....)

RepositoryService

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

MessageService

informUser(), warnUser(), raiseError()

(some) other Applib Services

FactoryService, TitleService, ClockService,
ConfigurationService, BookmarkService, EventBusService,
BackgroundService, EmailService, MetaModelService,
IsisJdoSupport, WrapperFactory, TransactionService,
CommandContext, ActionInvocationContext
QueryResultsCache, Scratchpad,

Error & Exception Handling

RecoverableException, NonRecoverableException

Value Types

8 primitive types + wrappers; BigDecimal, BigInteger;
java.util.Date, java.sql.{Date|Time|Timestamp}; enums;
JODA dates; org.apache.isis.value.*

Bootstrapping

AppManifest; WEB-INF/isis.properties; WEB-INF/shiro.ini