Apache Isis™ CheatSheet

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 is 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)

@XmRootElement; @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 must have 0 arguments, and annotated with @Action(semantics=SAFE) and @ActionLayout(contributed=AS_ASSOCIATION)

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;

@javax.validation.constraints.Digits

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, MetaModelService, IsisJdoSupport, WrapperFactory, CommandContext, QueryResultsCache

Error & Exception Handling

RecoverableException, NonRecoverableExeption

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; org.apache.isis.value.*

Bootstrapping

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