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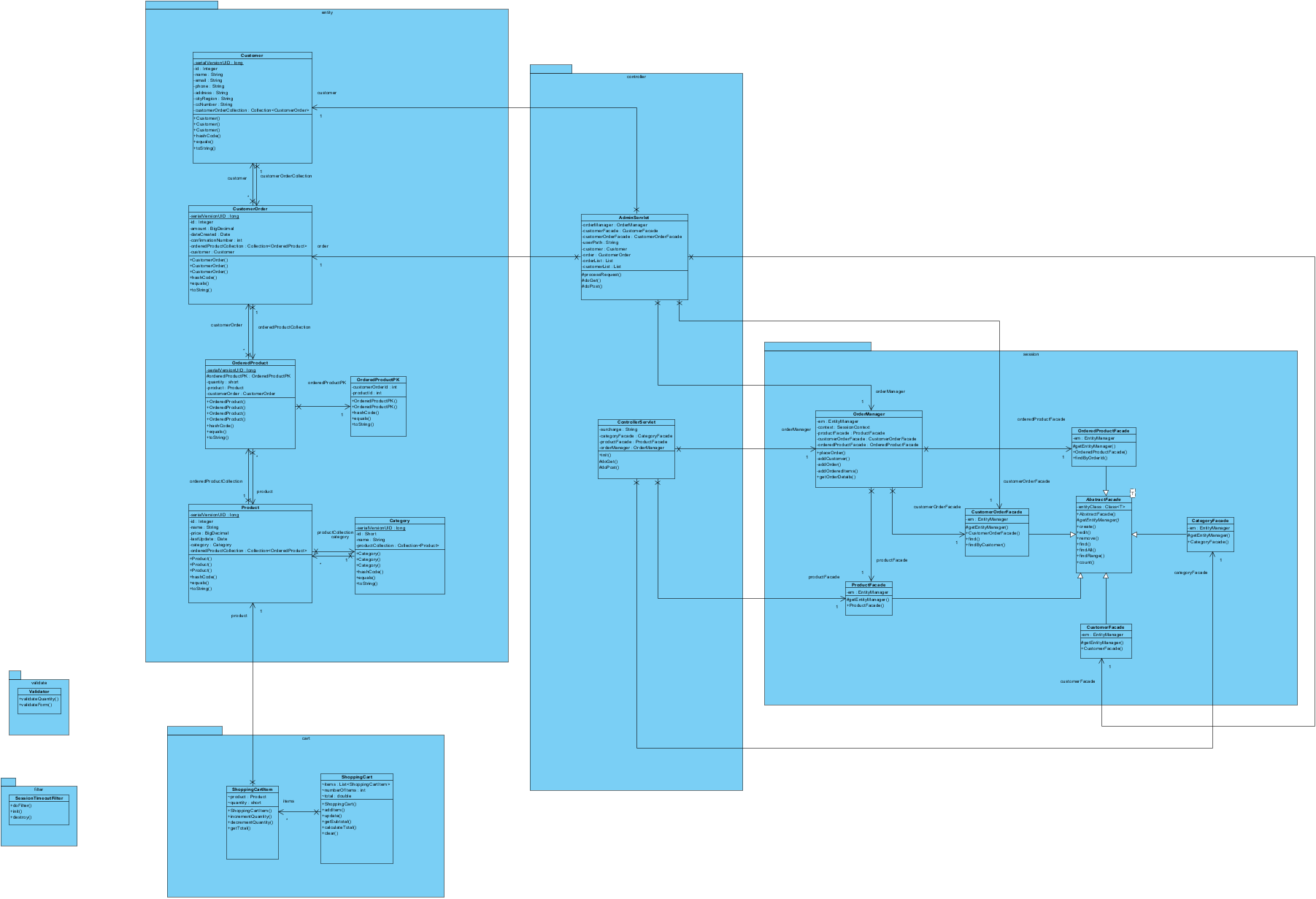
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[session.OrderManager.placeOrder(String, String, String, String, String, String, ShoppingCart)](#Pe0c6fKGAqAABYm8)

Class Diagram

# Class Diagram



|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:22 AM |
| Last Modified | Sep 4, 2015 8:16:01 AM |
| Request Validate Snap To Grid | false |
| Name | Class Diagram |

## Summary

|  |  |
| --- | --- |
| Name | Documentation |
| Image1.png [entity](#qqMs6fKGAqAABUvy) |  |
| Image2.png [Customer](#KqMs6fKGAqAABUvs) | @author tgiunipero |
| Image1.png [controller](#aqMs6fKGAqAABUv7) |  |
| Image2.png [CustomerOrder](#KqMs6fKGAqAABUvp) | @author tgiunipero |
| Image2.png [AdminServlet](#aqMs6fKGAqAABUv4) | @author tgiunipero |
| Image1.png [session](#SqMs6fKGAqAABUvX) |  |
| Image2.png [OrderedProduct](#KqMs6fKGAqAABUvm) | @author tgiunipero |
| Image2.png [OrderedProductPK](#yqMs6fKGAqAABUvj) | @author tgiunipero |
| Image2.png [OrderManager](#CqMs6fKGAqAABUvF) | @author tgiunipero |
| Image2.png [ControllerServlet](#qqMs6fKGAqAABUv1) | @author tgiunipero |
| Image2.png [OrderedProductFacade](#iqMs6fKGAqAABUvI) | @author tgiunipero |
| Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) | @author tgiunipero |
| Image2.png [Product](#yqMs6fKGAqAABUvg) | @author tgiunipero |
| Image2.png [CustomerOrderFacade](#iqMs6fKGAqAABUvL) | @author tgiunipero |
| Image2.png [Category](#qqMs6fKGAqAABUvv) | @author tgiunipero |
| Image2.png [CategoryFacade](#SqMs6fKGAqAABUvR) | @author tgiunipero |
| Image2.png [ProductFacade](#CqMs6fKGAqAABUvC) | @author tgiunipero |
| Image2.png [CustomerFacade](#iqMs6fKGAqAABUvO) | @author tgiunipero |
| Image1.png [validate](#CqMs6fKGAqAABUu_) |  |
| Image2.png [Validator](#QqMs6fKGAqAABUu8) | @author tgiunipero |
| Image1.png [cart](#aqMs6fKGAqAABUwE) |  |
| Image2.png [ShoppingCart](#aqMs6fKGAqAABUwB) |  |
| Image1.png [filter](#yqMs6fKGAqAABUvd) |  |
| Image2.png [ShoppingCartItem](#aqMs6fKGAqAABUv.) | @author tgiunipero |
| Image2.png [SessionTimeoutFilter](#yqMs6fKGAqAABUva) | @author tgiunipero |

## Details

### Image1.png entity

|  |  |
| --- | --- |
| Name | Value |
| Abstract | false |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image2.png [Customer](#KqMs6fKGAqAABUvs) | @author tgiunipero |
| Image2.png [CustomerOrder](#KqMs6fKGAqAABUvp) | @author tgiunipero |
| Image2.png [OrderedProduct](#KqMs6fKGAqAABUvm) | @author tgiunipero |
| Image2.png [OrderedProductPK](#yqMs6fKGAqAABUvj) | @author tgiunipero |
| Image2.png [Product](#yqMs6fKGAqAABUvg) | @author tgiunipero |
| Image2.png [Category](#qqMs6fKGAqAABUvv) | @author tgiunipero |

### Image2.png Customer

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private serialVersionUID : long | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | 1L | | |
| Type | Image3.png long | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private id : Integer | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Integer | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private name : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private email : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private phone : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private address : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private cityRegion : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private ccNumber : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customerOrderCollection : java.util.Collection | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Template Type Bind Info | N/A | | |
| Type | java.util.Collection | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public Customer () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public Customer (id : Integer) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Integer | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public Customer (id : Integer, name : String, email : String, phone : String, address : String, cityRegion : String, ccNumber : String) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Integer | | Direction | inout |  |  |  | | --- | --- | | name | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | email | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | phone | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | address | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | cityRegion | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | ccNumber | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public hashCode () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public equals (object : Object) : boolean | |
| Parameters | |  |  | | --- | --- | | object | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public toString () : String | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customerOrderCollection) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customerOrderCollection | | Multiplicity | \* | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [AdminServlet](#De4s6fKGAqAABRsP) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\entity\Customer.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\entity\Customer.java) | |
| Description | Source |
| Type | File |

### Image1.png controller

|  |  |
| --- | --- |
| Name | Value |
| Abstract | false |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image2.png [AdminServlet](#aqMs6fKGAqAABUv4) | @author tgiunipero |
| Image2.png [ControllerServlet](#qqMs6fKGAqAABUv1) | @author tgiunipero |

### Image2.png CustomerOrder

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private serialVersionUID : long | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | 1L | | |
| Type | Image3.png long | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private id : Integer | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Integer | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private amount : java.math.BigDecimal | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | java.math.BigDecimal | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private dateCreated : java.util.Date | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | java.util.Date | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private confirmationNumber : int | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png int | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private orderedProductCollection : java.util.Collection | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Template Type Bind Info | N/A | | |
| Type | java.util.Collection | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customer : Customer | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [Customer](#O.4s6fKGAqAABR2B) | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public CustomerOrder () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public CustomerOrder (id : Integer) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Integer | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public CustomerOrder (id : Integer, amount : java.math.BigDecimal, dateCreated : java.util.Date, confirmationNumber : int) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Integer | | Direction | inout |  |  |  | | --- | --- | | amount | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | java.math.BigDecimal | | Direction | inout |  |  |  | | --- | --- | | dateCreated | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | java.util.Date | | Direction | inout |  |  |  | | --- | --- | | confirmationNumber | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png int | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public hashCode () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public equals (object : Object) : boolean | |
| Parameters | |  |  | | --- | --- | | object | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public toString () : String | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (orderedProductCollection) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProduct](#oB4s6fKGAqAABSFR) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | orderedProductCollection | | Multiplicity | \* | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customer) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Customer](#O.4s6fKGAqAABR2B) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customer | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProduct](#oB4s6fKGAqAABSFR) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [AdminServlet](#De4s6fKGAqAABRsP) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Customer](#O.4s6fKGAqAABR2B) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\entity\CustomerOrder.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\entity\CustomerOrder.java) | |
| Description | Source |
| Type | File |

### Image2.png AdminServlet

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private orderManager : OrderManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customerFacade : CustomerFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [CustomerFacade](#Ch4s6fKGAqAABSaa) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customerOrderFacade : CustomerOrderFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [CustomerOrderFacade](#ah4s6fKGAqAABSbM) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private userPath : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customer : Customer | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [Customer](#O.4s6fKGAqAABR2B) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private order : CustomerOrder | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private orderList : java.util.List | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | new ArrayList() | | |
| Type | java.util.List | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customerList : java.util.List | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | new ArrayList() | | |
| Type | java.util.List | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| protected processRequest (request : HttpServletRequest, response : HttpServletResponse) : void | |
| Parameters | |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Documentation | servlet request | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletRequest | | Direction | inout |  |  |  | | --- | --- | | response | | | Multiplicity | Unspecified | | Documentation | servlet response | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletResponse | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Processes requests for both HTTP <code>GET</code> and <code>POST</code> methods. |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Return Type Documentation | @throws IOException if an I/O error occurs |
| Query | false |

|  |  |
| --- | --- |
| protected doGet (request : HttpServletRequest, response : HttpServletResponse) : void | |
| Parameters | |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Documentation | servlet request | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletRequest | | Direction | inout |  |  |  | | --- | --- | | response | | | Multiplicity | Unspecified | | Documentation | servlet response | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletResponse | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Handles the HTTP <code>GET</code> method. |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Return Type Documentation | @throws IOException if an I/O error occurs |
| Query | false |

|  |  |
| --- | --- |
| protected doPost (request : HttpServletRequest, response : HttpServletResponse) : void | |
| Parameters | |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Documentation | servlet request | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletRequest | | Direction | inout |  |  |  | | --- | --- | | response | | | Multiplicity | Unspecified | | Documentation | servlet response | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletResponse | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Handles the HTTP <code>POST</code> method. |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Return Type Documentation | @throws IOException if an I/O error occurs |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customer) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Customer](#O.4s6fKGAqAABR2B) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customer | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (order) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | order | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (orderManager) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | orderManager | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customerFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerFacade](#Ch4s6fKGAqAABSaa) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customerFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customerOrderFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrderFacade](#ah4s6fKGAqAABSbM) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customerOrderFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\controller\AdminServlet.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\controller\AdminServlet.java) | |
| Description | Source |
| Type | File |

### Image1.png session

|  |  |
| --- | --- |
| Name | Value |
| Abstract | false |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image2.png [OrderManager](#CqMs6fKGAqAABUvF) | @author tgiunipero |
| Image2.png [OrderedProductFacade](#iqMs6fKGAqAABUvI) | @author tgiunipero |
| Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) | @author tgiunipero |
| Image2.png [CustomerOrderFacade](#iqMs6fKGAqAABUvL) | @author tgiunipero |
| Image2.png [CategoryFacade](#SqMs6fKGAqAABUvR) | @author tgiunipero |
| Image2.png [ProductFacade](#CqMs6fKGAqAABUvC) | @author tgiunipero |
| Image2.png [CustomerFacade](#iqMs6fKGAqAABUvO) | @author tgiunipero |

### Image2.png OrderedProduct

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private serialVersionUID : long | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | 1L | | |
| Type | Image3.png long | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| protected orderedProductPK : OrderedProductPK | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [OrderedProductPK](#KB4s6fKGAqAABSKw) | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private quantity : short | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png short | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private product : Product | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [Product](#BB4s6fKGAqAABSNz) | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customerOrder : CustomerOrder | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public OrderedProduct () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public OrderedProduct (orderedProductPK : OrderedProductPK) | |
| Parameters | |  |  | | --- | --- | | orderedProductPK | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [OrderedProductPK](#KB4s6fKGAqAABSKw) | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public OrderedProduct (orderedProductPK : OrderedProductPK, quantity : short) | |
| Parameters | |  |  | | --- | --- | | orderedProductPK | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [OrderedProductPK](#KB4s6fKGAqAABSKw) | | Direction | inout |  |  |  | | --- | --- | | quantity | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png short | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public OrderedProduct (customerOrderId : int, productId : int) | |
| Parameters | |  |  | | --- | --- | | customerOrderId | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png int | | Direction | inout |  |  |  | | --- | --- | | productId | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png int | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public hashCode () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public equals (object : Object) : boolean | |
| Parameters | |  |  | | --- | --- | | object | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public toString () : String | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customerOrder) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customerOrder | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (orderedProductPK) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProductPK](#KB4s6fKGAqAABSKw) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | orderedProductPK | | Multiplicity | 1 | | Visibility | protected | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (product) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | product | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\entity\OrderedProduct.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\entity\OrderedProduct.java) | |
| Description | Source |
| Type | File |

### Image2.png OrderedProductPK

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private customerOrderId : int | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png int | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private productId : int | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png int | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public OrderedProductPK () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public OrderedProductPK (customerOrderId : int, productId : int) | |
| Parameters | |  |  | | --- | --- | | customerOrderId | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png int | | Direction | inout |  |  |  | | --- | --- | | productId | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png int | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public hashCode () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public equals (object : Object) : boolean | |
| Parameters | |  |  | | --- | --- | | object | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public toString () : String | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProduct](#oB4s6fKGAqAABSFR) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\entity\OrderedProductPK.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\entity\OrderedProductPK.java) | |
| Description | Source |
| Type | File |

### Image2.png OrderManager

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private em : javax.persistence.EntityManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.persistence.EntityManager | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private context : javax.ejb.SessionContext | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.ejb.SessionContext | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private productFacade : ProductFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [ProductFacade](#rh4s6fKGAqAABSio) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private customerOrderFacade : CustomerOrderFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [CustomerOrderFacade](#ah4s6fKGAqAABSbM) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private orderedProductFacade : OrderedProductFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [OrderedProductFacade](#.h4s6fKGAqAABScq) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public placeOrder (name : String, email : String, phone : String, address : String, cityRegion : String, ccNumber : String, cart : ShoppingCart) : int | |
| Parameters | |  |  | | --- | --- | | name | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | email | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | phone | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | address | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | cityRegion | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | ccNumber | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | cart | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [ShoppingCart](#8u4s6fKGAqAABRmu) | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| private addCustomer (name : String, email : String, phone : String, address : String, cityRegion : String, ccNumber : String) : Customer | |
| Parameters | |  |  | | --- | --- | | name | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | email | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | phone | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | address | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | cityRegion | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | ccNumber | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| private addOrder (customer : Customer, cart : ShoppingCart) : CustomerOrder | |
| Parameters | |  |  | | --- | --- | | customer | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [Customer](#O.4s6fKGAqAABR2B) | | Direction | inout |  |  |  | | --- | --- | | cart | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [ShoppingCart](#8u4s6fKGAqAABRmu) | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| private addOrderedItems (order : CustomerOrder, cart : ShoppingCart) : void | |
| Parameters | |  |  | | --- | --- | | order | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) | | Direction | inout |  |  |  | | --- | --- | | cart | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [ShoppingCart](#8u4s6fKGAqAABRmu) | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public getOrderDetails (orderId : int) : java.util.Map | |
| Parameters | |  |  | | --- | --- | | orderId | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image3.png int | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (productFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ProductFacade](#rh4s6fKGAqAABSio) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | productFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (orderedProductFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProductFacade](#.h4s6fKGAqAABScq) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | orderedProductFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (customerOrderFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CustomerOrderFacade](#ah4s6fKGAqAABSbM) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | customerOrderFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ControllerServlet](#fe4s6fKGAqAABRvW) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [AdminServlet](#De4s6fKGAqAABRsP) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\OrderManager.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\OrderManager.java) | |
| Description | Source |
| Type | File |

### Image2.png ControllerServlet

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private surcharge : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private categoryFacade : CategoryFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [CategoryFacade](#kh4s6fKGAqAABSZo) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private productFacade : ProductFacade | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [ProductFacade](#rh4s6fKGAqAABSio) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private orderManager : OrderManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public init (servletConfig : javax.servlet.ServletConfig) : void | |
| Parameters | |  |  | | --- | --- | | servletConfig | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | javax.servlet.ServletConfig | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| protected doGet (request : HttpServletRequest, response : HttpServletResponse) : void | |
| Parameters | |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Documentation | servlet request | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletRequest | | Direction | inout |  |  |  | | --- | --- | | response | | | Multiplicity | Unspecified | | Documentation | servlet response | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletResponse | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Handles the HTTP <code>GET</code> method. |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Return Type Documentation | @throws IOException if an I/O error occurs |
| Query | false |

|  |  |
| --- | --- |
| protected doPost (request : HttpServletRequest, response : HttpServletResponse) : void | |
| Parameters | |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Documentation | servlet request | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletRequest | | Direction | inout |  |  |  | | --- | --- | | response | | | Multiplicity | Unspecified | | Documentation | servlet response | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | HttpServletResponse | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Handles the HTTP <code>POST</code> method. |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Return Type Documentation | @throws IOException if an I/O error occurs |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (categoryFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [CategoryFacade](#kh4s6fKGAqAABSZo) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | categoryFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (productFacade) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ProductFacade](#rh4s6fKGAqAABSio) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | productFacade | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (orderManager) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | orderManager | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\controller\ControllerServlet.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\controller\ControllerServlet.java) | |
| Description | Source |
| Type | File |

### Image2.png OrderedProductFacade

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private em : javax.persistence.EntityManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.persistence.EntityManager | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| protected getEntityManager () : javax.persistence.EntityManager | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public OrderedProductFacade () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public findByOrderId (id : Object) : java.util.List | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | manually created |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Template Type Bind Info | N/A |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generalization | |
| From | Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\OrderedProductFacade.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\OrderedProductFacade.java) | |
| Description | Source |
| Type | File |

### Image2.png AbstractFacade

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private entityClass : Class | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Template Type Bind Info | N/A | | |
| Type | Class | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public AbstractFacade (entityClass : Class) | |
| Parameters | |  |  | | --- | --- | | entityClass | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Template Type Bind Info | N/A | | Type | Class | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| *protected getEntityManager () : javax.persistence.EntityManager* | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public create (entity : T) : void | |
| Parameters | |  |  | | --- | --- | | entity | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | T | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public edit (entity : T) : void | |
| Parameters | |  |  | | --- | --- | | entity | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | T | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public remove (entity : T) : void | |
| Parameters | |  |  | | --- | --- | | entity | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | T | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public find (id : Object) : T | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public findAll () : java.util.List | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Template Type Bind Info | N/A |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public findRange (range : int) : java.util.List | |
| Parameters | |  |  | | --- | --- | | range | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type Modifier | [] | | Type | Image3.png int | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Template Type Bind Info | N/A |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public count () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generalization | |
| To | Image2.png [OrderedProductFacade](#iqMs6fKGAqAABUvI) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Generalization | |
| To | Image2.png [ProductFacade](#CqMs6fKGAqAABUvC) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Generalization | |
| To | Image2.png [CustomerOrderFacade](#iqMs6fKGAqAABUvL) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Generalization | |
| To | Image2.png [CustomerFacade](#iqMs6fKGAqAABUvO) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Generalization | |
| To | Image2.png [CategoryFacade](#SqMs6fKGAqAABUvR) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

#### Template Parameters

|  |  |
| --- | --- |
| T | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\AbstractFacade.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\AbstractFacade.java) | |
| Description | Source |
| Type | File |

### Image2.png Product

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private serialVersionUID : long | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | 1L | | |
| Type | Image3.png long | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private id : Integer | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Integer | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private name : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private price : java.math.BigDecimal | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | java.math.BigDecimal | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private lastUpdate : java.util.Date | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | java.util.Date | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private category : Category | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [Category](#s.4s6fKGAqAABRxw) | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private orderedProductCollection : java.util.Collection | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Template Type Bind Info | N/A | | |
| Type | java.util.Collection | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public Product () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public Product (id : Integer) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Integer | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public Product (id : Integer, name : String, price : java.math.BigDecimal, lastUpdate : java.util.Date) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Integer | | Direction | inout |  |  |  | | --- | --- | | name | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | price | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | java.math.BigDecimal | | Direction | inout |  |  |  | | --- | --- | | lastUpdate | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | java.util.Date | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public hashCode () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public equals (object : Object) : boolean | |
| Parameters | |  |  | | --- | --- | | object | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public toString () : String | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (orderedProductCollection) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProduct](#oB4s6fKGAqAABSFR) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | orderedProductCollection | | Multiplicity | \* | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To (category) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Category](#s.4s6fKGAqAABRxw) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | category | | Multiplicity | 1 | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderedProduct](#oB4s6fKGAqAABSFR) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ShoppingCartItem](#Be4s6fKGAqAABRp5) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Category](#s.4s6fKGAqAABRxw) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\entity\Product.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\entity\Product.java) | |
| Description | Source |
| Type | File |

### Image2.png CustomerOrderFacade

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private em : javax.persistence.EntityManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.persistence.EntityManager | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| protected getEntityManager () : javax.persistence.EntityManager | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public CustomerOrderFacade () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public find (id : Object) : CustomerOrder | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | overridden - refresh method called to retrieve order id from database |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public findByCustomer (customer : Object) : CustomerOrder | |
| Parameters | |  |  | | --- | --- | | customer | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | in this implementation, there is only one order per customerthe data model however allows for multiple orders per customer |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generalization | |
| From | Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [AdminServlet](#De4s6fKGAqAABRsP) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\CustomerOrderFacade.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\CustomerOrderFacade.java) | |
| Description | Source |
| Type | File |

### Image2.png Category

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private serialVersionUID : long | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Initial Value | 1L | | |
| Type | Image3.png long | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private id : Short | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Short | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private name : String | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | String | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private productCollection : java.util.Collection | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Template Type Bind Info | N/A | | |
| Type | java.util.Collection | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public Category () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public Category (id : Short) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Short | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public Category (id : Short, name : String) | |
| Parameters | |  |  | | --- | --- | | id | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Short | | Direction | inout |  |  |  | | --- | --- | | name | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public hashCode () : int | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public equals (object : Object) : boolean | |
| Parameters | |  |  | | --- | --- | | object | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Object | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public toString () : String | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (productCollection) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | productCollection | | Multiplicity | \* | | Visibility | private | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\entity\Category.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\entity\Category.java) | |
| Description | Source |
| Type | File |

### Image2.png CategoryFacade

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private em : javax.persistence.EntityManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.persistence.EntityManager | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| protected getEntityManager () : javax.persistence.EntityManager | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public CategoryFacade () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ControllerServlet](#fe4s6fKGAqAABRvW) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Generalization | |
| From | Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\CategoryFacade.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\CategoryFacade.java) | |
| Description | Source |
| Type | File |

### Image2.png ProductFacade

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private em : javax.persistence.EntityManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.persistence.EntityManager | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| protected getEntityManager () : javax.persistence.EntityManager | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public ProductFacade () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Generalization | |
| From | Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ControllerServlet](#fe4s6fKGAqAABRvW) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\ProductFacade.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\ProductFacade.java) | |
| Description | Source |
| Type | File |

### Image2.png CustomerFacade

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private em : javax.persistence.EntityManager | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | javax.persistence.EntityManager | | |
| Getter | false | Setter | false |
| Has Setter | false | | |
| Has Getter | false | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| protected getEntityManager () : javax.persistence.EntityManager | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public CustomerFacade () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generalization | |
| From | Image2.png [AbstractFacade](#SqMs6fKGAqAABUvU) |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Substitutable | false |
| Template Type Bind Info | N/A |
| Visibility | Unspecified |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [AdminServlet](#De4s6fKGAqAABRsP) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\session\CustomerFacade.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\session\CustomerFacade.java) | |
| Description | Source |
| Type | File |

### Image1.png validate

|  |  |
| --- | --- |
| Name | Value |
| Abstract | false |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image2.png [Validator](#QqMs6fKGAqAABUu8) | @author tgiunipero |

### Image2.png Validator

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Operations

|  |  |
| --- | --- |
| public validateQuantity (productId : String, quantity : String) : boolean | |
| Parameters | |  |  | | --- | --- | | productId | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | quantity | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | ensures that quantity input is number between 0 and 99applies to quantity fields in cart page |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public validateForm (name : String, email : String, phone : String, address : String, cityRegion : String, ccNumber : String, request : javax.servlet.http.HttpServletRequest) : boolean | |
| Parameters | |  |  | | --- | --- | | name | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | email | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | phone | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | address | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | cityRegion | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | ccNumber | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout |  |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | javax.servlet.http.HttpServletRequest | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | performs simple validation on checkout form |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\validate\Validator.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\validate\Validator.java) | |
| Description | Source |
| Type | File |

### Image1.png cart

|  |  |
| --- | --- |
| Name | Value |
| Abstract | false |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image2.png [ShoppingCart](#aqMs6fKGAqAABUwB) |  |
| Image2.png [ShoppingCartItem](#aqMs6fKGAqAABUv.) | @author tgiunipero |

### Image2.png ShoppingCart

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| package items : List | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Template Type Bind Info | N/A | | |
| Type | List | | |
| Getter | true | Setter | false |
| Has Setter | false | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| package numberOfItems : int | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png int | | |
| Getter | true | Setter | false |
| Has Setter | false | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| package total : double | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png double | | |
| Getter | true | Setter | false |
| Has Setter | false | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public ShoppingCart () | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public addItem (product : Product) : void | |
| Parameters | |  |  | | --- | --- | | product | | | Multiplicity | Unspecified | | Documentation | the <code>Product</code> that defines the type of shopping cart item | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Adds a <code>ShoppingCartItem</code> to the <code>ShoppingCart</code>'s<code>items</code> list. If item of the specified <code>product</code>already exists in shopping cart list, the quantity of that item isincremented.  @see ShoppingCartItem |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public update (product : Product, quantity : String) : void | |
| Parameters | |  |  | | --- | --- | | product | | | Multiplicity | Unspecified | | Documentation | the <code>Product</code> that defines the type of shopping cart item | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Direction | inout |  |  |  | | --- | --- | | quantity | | | Multiplicity | Unspecified | | Documentation | the number which the <code>ShoppingCartItem</code> is updated to | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Updates the <code>ShoppingCartItem</code> of the specified<code>product</code> to the specified quantity. If '<code>0</code>'is the given quantity, the <code>ShoppingCartItem</code> is removedfrom the <code>ShoppingCart</code>'s <code>items</code> list.  @see ShoppingCartItem |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public getSubtotal () : double | |
| Static | false |
| Leaf | false |
| Documentation | Returns the sum of the product price multiplied by the quantity for allitems in shopping cart list. This is the total cost excluding the surcharge.  @see ShoppingCartItem |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Return Type Documentation | the cost of all items times their quantities |
| Query | false |

|  |  |
| --- | --- |
| public calculateTotal (surcharge : String) : void | |
| Parameters | |  |  | | --- | --- | | surcharge | | | Multiplicity | Unspecified | | Documentation | the designated surcharge for all orders | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | String | | Direction | inout | |
| Static | false |
| Leaf | false |
| Documentation | Calculates the total cost of the order. This method adds the subtotal tothe designated surcharge and sets the <code>total</code> instance variablewith the result.  @see ShoppingCartItem |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public clear () : void | |
| Static | false |
| Leaf | false |
| Documentation | Empties the shopping cart. All items are removed from the shopping cart<code>items</code> list, <code>numberOfItems</code> and<code>total</code> are reset to '<code>0</code>'.  @see ShoppingCartItem |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (items) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ShoppingCartItem](#Be4s6fKGAqAABRp5) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | items | | Multiplicity | \* | | Visibility | package | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\cart\ShoppingCart.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\cart\ShoppingCart.java) | |
| Description | Source |
| Type | File |

### Image1.png filter

|  |  |
| --- | --- |
| Name | Value |
| Abstract | false |
| Leaf | false |
| Root | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image2.png [SessionTimeoutFilter](#yqMs6fKGAqAABUva) | @author tgiunipero |

### Image2.png ShoppingCartItem

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| package product : Product | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image2.png [Product](#BB4s6fKGAqAABSNz) | | |
| Getter | true | Setter | false |
| Has Setter | false | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

|  |  |  |  |
| --- | --- | --- | --- |
| package quantity : short | | | |
| Author | Zaic | | |
| Create Date Time | Sep 4, 2015 8:14:02 AM | | |
| Type | Image3.png short | | |
| Getter | true | Setter | true |
| Has Setter | true | | |
| Has Getter | true | | |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Java Detail | N/A | | |
| Aggregation | None | | |

#### Operations

|  |  |
| --- | --- |
| public ShoppingCartItem (product : Product) | |
| Parameters | |  |  | | --- | --- | | product | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public incrementQuantity () : void | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public decrementQuantity () : void | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public getTotal () : double | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To (product) | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [Product](#BB4s6fKGAqAABSNz) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Referenced Attribute | product | | Multiplicity | 1 | | Visibility | package | | Aggregation Kind | None | | Navigable | true | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image2.png [ShoppingCart](#8u4s6fKGAqAABRmu) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | false | | Derived | false | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Derived | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\cart\ShoppingCartItem.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\cart\ShoppingCartItem.java) | |
| Description | Source |
| Type | File |

### Image2.png SessionTimeoutFilter

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Java Detail | N/A |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Documentation | @author tgiunipero |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |

#### Operations

|  |  |
| --- | --- |
| public doFilter (request : javax.servlet.ServletRequest, response : javax.servlet.ServletResponse, chain : javax.servlet.FilterChain) : void | |
| Parameters | |  |  | | --- | --- | | request | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | javax.servlet.ServletRequest | | Direction | inout |  |  |  | | --- | --- | | response | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | javax.servlet.ServletResponse | | Direction | inout |  |  |  | | --- | --- | | chain | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | javax.servlet.FilterChain | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public init (filterConfig : javax.servlet.FilterConfig) : void | |
| Parameters | |  |  | | --- | --- | | filterConfig | | | Multiplicity | Unspecified | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:14:02 AM | | Type | javax.servlet.FilterConfig | | Direction | inout | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

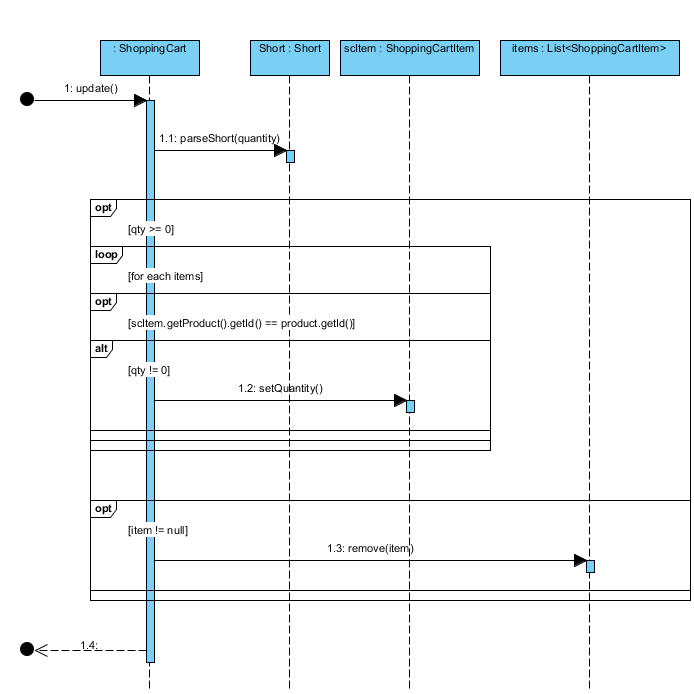
|  |  |
| --- | --- |
| public destroy () : void | |
| Static | false |
| Leaf | false |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:14:02 AM |
| Ordered | false |
| Unique | true |
| Query | false |

#### References

|  |  |
| --- | --- |
| [C:\Users\Zaic\Dropbox\OU\3 level\TM470\EMA\Shop20\src\java\filter\SessionTimeoutFilter.java](file:///C:\Users\Zaic\Dropbox\OU\3%20level\TM470\EMA\Shop20\src\java\filter\SessionTimeoutFilter.java) | |
| Description | Source |
| Type | File |

Sequence Diagram

# cart.ShoppingCart.update(Product, String)



|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:00 AM |
| Last Modified | Sep 4, 2015 8:16:59 AM |
| Request Validate Snap To Grid | false |
| Name | cart.ShoppingCart.update(Product, String) |
| Request Fix Diagram For Rose Import | false |

## Summary

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [: ShoppingCart](#KRJs6fKGAqAABV7h) |  |
| Image5.png [Short : Short](#21Js6fKGAqAABWAd) |  |
| Image5.png [scItem : ShoppingCartItem](#WjJs6fKGAqAABWLk) |  |
| Image5.png [items : List<ShoppingCartItem>](#GbJs6fKGAqAABWRK) |  |
| Image6.png [CombinedFragment](#NdJs6fKGAqAABWC9) |  |
| Image7.png [Operand](#Y9Js6fKGAqAABWDO) |  |
| Image6.png [CombinedFragment2](#B9Js6fKGAqAABWDk) |  |
| Image7.png [Operand](#V9Js6fKGAqAABWD0) |  |
| Image6.png [CombinedFragment3](#39Js6fKGAqAABWEJ) |  |
| Image7.png [Operand](#4DJs6fKGAqAABWEZ) |  |
| Image6.png [CombinedFragment4](#.DJs6fKGAqAABWEu) |  |
| Image7.png [Operand](#VDJs6fKGAqAABWE.) |  |
| Image6.png [CombinedFragment2](#_rJs6fKGAqAABWQc) |  |
| Image7.png [Operand](#kbJs6fKGAqAABWQs) |  |

## Details

### Image5.png  : ShoppingCart

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:01 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [ShoppingCart](#8u4s6fKGAqAABRmu) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| parseShort(quantity) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [Short](#21Js6fKGAqAABWAU) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:01 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:01 AM |
| Type | Message |
| Sequence Number | 1.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| remove(item) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [items](#GbJs6fKGAqAABWRB) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Type | Message |
| Sequence Number | 1.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [scItem](#mjJs6fKGAqAABWLT) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Type | Message |
| Sequence Number | 1.2 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Arguments | |  | | --- | | Value | | qty (Text) | | | Operation | quantity | | Operation Type | Attribute Setter | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Type | Message |
| Sequence Number | 1.4 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Return | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:01 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:01 AM |
| Type | Message |
| Sequence Number | 1 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:01 AM | | Operation | update | | Operation Type | Operation | |
| Asynchronous | false |

### Image5.png Short : Short

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:01 AM |
| Multiplicity | Unspecified |
| Base Classifier | Short |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| parseShort(quantity) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#CRJs6fKGAqAABV6.) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:01 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:01 AM |
| Type | Message |
| Sequence Number | 1.1 |
| Asynchronous | false |

### Image5.png scItem : ShoppingCartItem

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [ShoppingCartItem](#Be4s6fKGAqAABRp5) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#CRJs6fKGAqAABV6.) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Type | Message |
| Sequence Number | 1.2 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Arguments | |  | | --- | | Value | | qty (Text) | | | Operation | quantity | | Operation Type | Attribute Setter | |
| Asynchronous | false |

### Image5.png items : List<ShoppingCartItem>

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Multiplicity | Unspecified |
| Base Classifier | List<ShoppingCartItem> |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| remove(item) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#CRJs6fKGAqAABV6.) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Type | Message |
| Sequence Number | 1.3 |
| Asynchronous | false |

### Image6.png CombinedFragment

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#CRJs6fKGAqAABV6.) |  |
| Image5.png [Short](#21Js6fKGAqAABWAU) |  |
| Image5.png [scItem](#mjJs6fKGAqAABWLT) |  |
| Image5.png [items](#GbJs6fKGAqAABWRB) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Constraint | qty >= 0 | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment2](#B9Js6fKGAqAABWDk) |  |
| Image6.png [CombinedFragment2](#_rJs6fKGAqAABWQc) |  |

### Image6.png CombinedFragment2

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Operator Kind | loop |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#CRJs6fKGAqAABV6.) |  |
| Image5.png [Short](#21Js6fKGAqAABWAU) |  |
| Image5.png [scItem](#mjJs6fKGAqAABWLT) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Constraint | for each items | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment3](#39Js6fKGAqAABWEJ) |  |

### Image6.png CombinedFragment3

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#CRJs6fKGAqAABV6.) |  |
| Image5.png [Short](#21Js6fKGAqAABWAU) |  |
| Image5.png [scItem](#mjJs6fKGAqAABWLT) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Constraint | scItem.getProduct().getId() == product.getId() | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment4](#.DJs6fKGAqAABWEu) |  |

### Image6.png CombinedFragment4

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#CRJs6fKGAqAABV6.) |  |
| Image5.png [scItem](#mjJs6fKGAqAABWLT) |  |
| Image5.png [Short](#21Js6fKGAqAABWAU) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Constraint | qty != 0 | |

### Image6.png CombinedFragment2

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

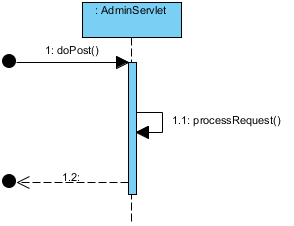
|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#CRJs6fKGAqAABV6.) |  |
| Image5.png [items](#GbJs6fKGAqAABWRB) |  |
| Image5.png [Short](#21Js6fKGAqAABWAU) |  |
| Image5.png [scItem](#mjJs6fKGAqAABWLT) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:02 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:02 AM | | Constraint | item != null | |

Sequence Diagram

# controller.AdminServlet.doPost(HttpServletRequest, HttpServletResponse)



|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:59 AM |
| Last Modified | Sep 4, 2015 8:17:32 AM |
| Request Validate Snap To Grid | false |
| Name | controller.AdminServlet.doPost(HttpServletRequest, HttpServletResponse) |
| Request Fix Diagram For Rose Import | false |

## Summary

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [: AdminServlet](#ITTs6fKGAqAABWZt) |  |

## Details

### Image5.png  : AdminServlet

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:59 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [AdminServlet](#De4s6fKGAqAABRsP) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

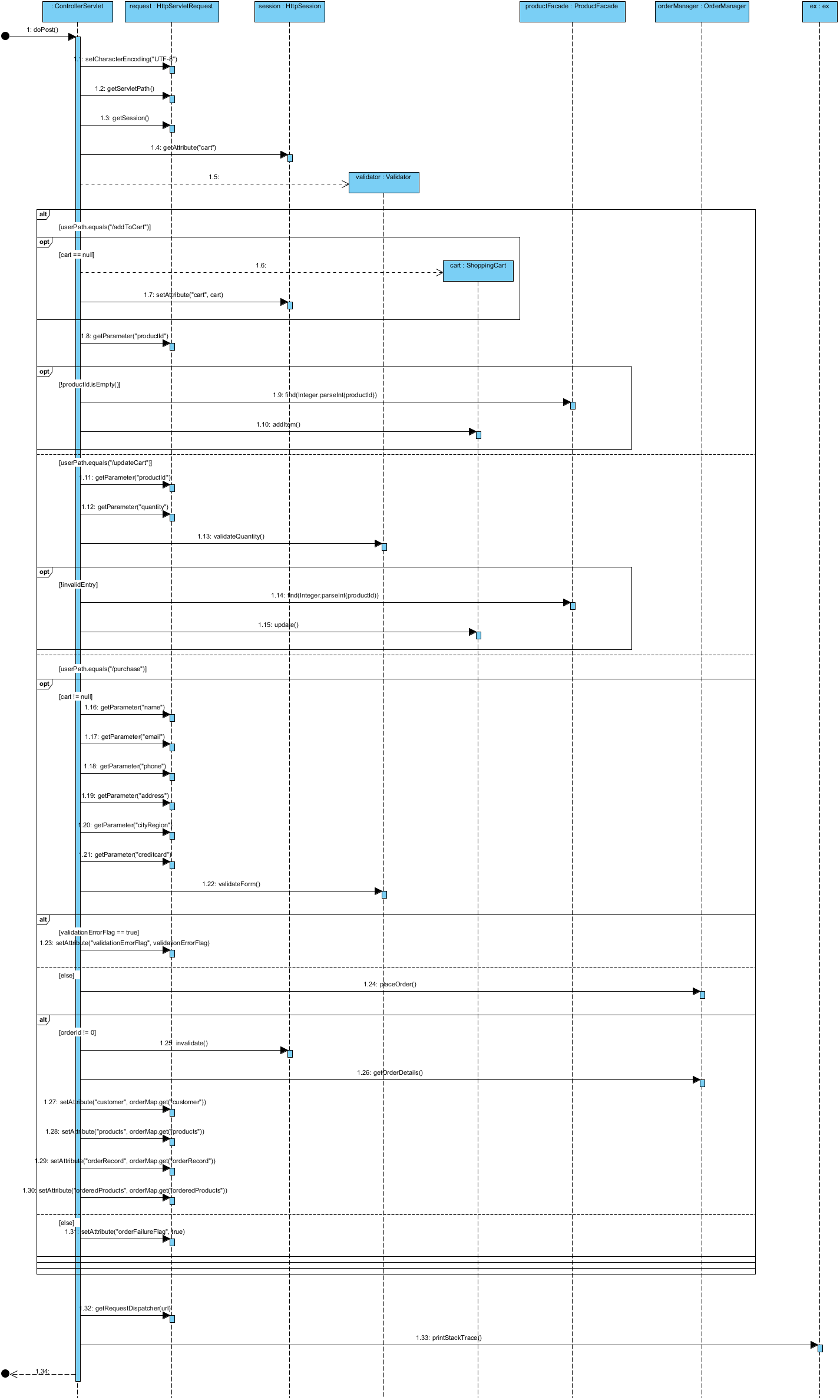
|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:59 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:59 AM |
| Type | Message |
| Sequence Number | 1.2 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Return | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:59 AM | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#wTTs6fKGAqAABWZb) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:59 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:59 AM |
| Type | Self Message |
| Sequence Number | 1.1 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:59 AM | | Arguments | |  | | --- | | Value | | request (Text) | | response (Text) | | | Operation | processRequest | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:59 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:16:59 AM |
| Type | Message |
| Sequence Number | 1 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:16:59 AM | | Operation | doPost | | Operation Type | Operation | |
| Asynchronous | false |

Sequence Diagram

# controller.ControllerServlet.doPost(HttpServletRequest, HttpServletResponse)



|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:32 AM |
| Last Modified | Sep 4, 2015 8:18:40 AM |
| Request Validate Snap To Grid | false |
| Name | controller.ControllerServlet.doPost(HttpServletRequest, HttpServletResponse) |
| Request Fix Diagram For Rose Import | false |

## Summary

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [: ControllerServlet](#mXXs6fKGAqAABWi2) |  |
| Image5.png [request : HttpServletRequest](#V3Xs6fKGAqAABWlE) |  |
| Image5.png [session : HttpSession](#Zg3s6fKGAqAABWrL) |  |
| Image5.png [validator : Validator](#.I3s6fKGAqAABWuu) |  |
| Image5.png [cart : ShoppingCart](#Jk3s6fKGAqAABW7p) |  |
| Image5.png [productFacade : ProductFacade](#aS3s6fKGAqAABXFU) |  |
| Image5.png [orderManager : OrderManager](#24Ps6fKGAqAABX0d) |  |
| Image5.png [ex : ex](#3dPs6fKGAqAABYfZ) |  |
| Image6.png [CombinedFragment2](#543s6fKGAqAABWxJ) |  |
| Image7.png [Operand](#943s6fKGAqAABWxZ) |  |
| Image6.png [CombinedFragment3](#4E3s6fKGAqAABWxs) |  |
| Image7.png [Operand](#KE3s6fKGAqAABWx8) |  |
| Image6.png [CombinedFragment3](#Ni3s6fKGAqAABXDV) |  |
| Image7.png [Operand](#wS3s6fKGAqAABXDl) |  |
| Image7.png [Operand](#EW3s6fKGAqAABXLL) |  |
| Image6.png [CombinedFragment3](#eR3s6fKGAqAABXS1) |  |
| Image7.png [Operand](#9R3s6fKGAqAABXTF) |  |
| Image7.png [Operand](#Nl3s6fKGAqAABXZd) |  |
| Image6.png [CombinedFragment3](#gV3s6fKGAqAABXZv) |  |
| Image7.png [Operand](#6V3s6fKGAqAABXZ_) |  |
| Image6.png [CombinedFragment4](#uQPs6fKGAqAABXuw) |  |
| Image7.png [Operand](#NQPs6fKGAqAABXvA) |  |
| Image7.png [Operand](#g4Ps6fKGAqAABXyU) |  |
| Image6.png [CombinedFragment5](#zMPs6fKGAqAABX5R) |  |
| Image7.png [Operand](#YsPs6fKGAqAABX5h) |  |
| Image7.png [Operand](#MpPs6fKGAqAABYN5) |  |

## Details

### Image5.png  : ControllerServlet

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:32 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [ControllerServlet](#fe4s6fKGAqAABRvW) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [cart](#Bk3s6fKGAqAABW60) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.10 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | | Arguments | |  | | --- | | Value | | product (Text) | | | Operation | addItem | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("address") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.19 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getServletPath() : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("orderRecord", orderMap.get("orderRecord")) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Type | Message |
| Sequence Number | 1.29 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("products", orderMap.get("products")) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.28 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("orderFailureFlag", true) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Type | Message |
| Sequence Number | 1.31 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("orderedProducts", orderMap.get("orderedProducts")) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Type | Message |
| Sequence Number | 1.30 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("email") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.17 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("customer", orderMap.get("customer")) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.27 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [validator](#eI3s6fKGAqAABWua) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.22 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | | Arguments | |  | | --- | | Value | | name (Text) | | email (Text) | | phone (Text) | | address (Text) | | cityRegion (Text) | | ccNumber (Text) | | request (Text) | | | Operation | validateForm | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("cart", cart) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [session](#Zg3s6fKGAqAABWrC) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.7 |
| Asynchronous | false |

|  |  |
| --- | --- |
| find(Integer.parseInt(productId)) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [productFacade](#qS3s6fKGAqAABXEr) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.9 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [cart](#Bk3s6fKGAqAABW60) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.15 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | | Arguments | |  | | --- | | Value | | product (Text) | | quantity (Text) | | | Operation | update | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| getRequestDispatcher(url) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:40 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:40 AM |
| Type | Message |
| Sequence Number | 1.32 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("name") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.16 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [orderManager](#W4Ps6fKGAqAABXz9) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.24 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | | Arguments | |  | | --- | | Value | | name (Text) | | email (Text) | | phone (Text) | | address (Text) | | cityRegion (Text) | | ccNumber (Text) | | cart (Text) | | | Operation | placeOrder | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [orderManager](#W4Ps6fKGAqAABXz9) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.26 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | | Arguments | |  | | --- | | Value | | orderId (Text) | | | Operation | getOrderDetails | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("phone") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.18 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("cityRegion") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.20 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getSession() : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("creditcard") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.21 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("validationErrorFlag", validationErrorFlag) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.23 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getAttribute("cart") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [session](#Zg3s6fKGAqAABWrC) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.4 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("quantity") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.12 |
| Asynchronous | false |

|  |  |
| --- | --- |
| invalidate() : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [session](#Zg3s6fKGAqAABWrC) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.25 |
| Asynchronous | false |

|  |  |
| --- | --- |
| find(Integer.parseInt(productId)) : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [productFacade](#qS3s6fKGAqAABXEr) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.14 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [validator](#eI3s6fKGAqAABWua) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.13 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | | Arguments | |  | | --- | | Value | | productId (Text) | | quantity (Text) | | | Operation | validateQuantity | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [validator](#eI3s6fKGAqAABWua) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Create Message |
| Sequence Number | 1.5 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("productId") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.11 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [cart](#Bk3s6fKGAqAABW60) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Create Message |
| Sequence Number | 1.6 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setCharacterEncoding("UTF-8") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| printStackTrace() : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [ex](#XdPs6fKGAqAABYfQ) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:40 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:40 AM |
| Type | Message |
| Sequence Number | 1.33 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:40 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:40 AM |
| Type | Message |
| Sequence Number | 1.34 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Return | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:40 AM | |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("productId") : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [request](#l3Xs6fKGAqAABWk7) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.8 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:32 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:32 AM |
| Type | Message |
| Sequence Number | 1 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:32 AM | | Operation | doPost | | Operation Type | Operation | |
| Asynchronous | false |

### Image5.png request : HttpServletRequest

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Multiplicity | Unspecified |
| Base Classifier | HttpServletRequest |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| getParameter("creditcard") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.21 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("productId") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.8 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("quantity") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.12 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("orderFailureFlag", true) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Type | Message |
| Sequence Number | 1.31 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setCharacterEncoding("UTF-8") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("cityRegion") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.20 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("products", orderMap.get("products")) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.28 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("email") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.17 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getRequestDispatcher(url) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:40 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:40 AM |
| Type | Message |
| Sequence Number | 1.32 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("phone") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.18 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getServletPath() : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("orderedProducts", orderMap.get("orderedProducts")) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Type | Message |
| Sequence Number | 1.30 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getSession() : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("validationErrorFlag", validationErrorFlag) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.23 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("name") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.16 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("customer", orderMap.get("customer")) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.27 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("productId") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.11 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getParameter("address") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Type | Message |
| Sequence Number | 1.19 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("orderRecord", orderMap.get("orderRecord")) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Type | Message |
| Sequence Number | 1.29 |
| Asynchronous | false |

### Image5.png session : HttpSession

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Multiplicity | Unspecified |
| Base Classifier | HttpSession |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| invalidate() : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.25 |
| Asynchronous | false |

|  |  |
| --- | --- |
| getAttribute("cart") : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Message |
| Sequence Number | 1.4 |
| Asynchronous | false |

|  |  |
| --- | --- |
| setAttribute("cart", cart) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.7 |
| Asynchronous | false |

### Image5.png validator : Validator

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [Validator](#fh4s6fKGAqAABSjj) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.22 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | | Arguments | |  | | --- | | Value | | name (Text) | | email (Text) | | phone (Text) | | address (Text) | | cityRegion (Text) | | ccNumber (Text) | | request (Text) | | | Operation | validateForm | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.13 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | | Arguments | |  | | --- | | Value | | productId (Text) | | quantity (Text) | | | Operation | validateQuantity | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Type | Create Message |
| Sequence Number | 1.5 |
| Asynchronous | false |

### Image5.png cart : ShoppingCart

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [ShoppingCart](#8u4s6fKGAqAABRmu) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.15 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | | Arguments | |  | | --- | | Value | | product (Text) | | quantity (Text) | | | Operation | update | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Create Message |
| Sequence Number | 1.6 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.10 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | | Arguments | |  | | --- | | Value | | product (Text) | | | Operation | addItem | | Operation Type | Operation | |
| Asynchronous | false |

### Image5.png productFacade : ProductFacade

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [ProductFacade](#rh4s6fKGAqAABSio) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| find(Integer.parseInt(productId)) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Type | Message |
| Sequence Number | 1.9 |
| Asynchronous | false |

|  |  |
| --- | --- |
| find(Integer.parseInt(productId)) : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Type | Message |
| Sequence Number | 1.14 |
| Asynchronous | false |

### Image5.png orderManager : OrderManager

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Type | Message |
| Sequence Number | 1.26 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | | Arguments | |  | | --- | | Value | | orderId (Text) | | | Operation | getOrderDetails | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Type | Message |
| Sequence Number | 1.24 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | | Arguments | |  | | --- | | Value | | name (Text) | | email (Text) | | phone (Text) | | address (Text) | | cityRegion (Text) | | ccNumber (Text) | | cart (Text) | | | Operation | placeOrder | | Operation Type | Operation | |
| Asynchronous | false |

### Image5.png ex : ex

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:40 AM |
| Multiplicity | Unspecified |
| Base Classifier | ex |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| printStackTrace() : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#GXXs6fKGAqAABWil) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:40 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:40 AM |
| Type | Message |
| Sequence Number | 1.33 |
| Asynchronous | false |

### Image6.png CombinedFragment2

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |
| Operand |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |
| Image5.png [productFacade](#qS3s6fKGAqAABXEr) |  |
| Image5.png [orderManager](#W4Ps6fKGAqAABXz9) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | | Constraint | userPath.equals("/addToCart") | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment3](#4E3s6fKGAqAABWxs) |  |
| Image6.png [CombinedFragment3](#Ni3s6fKGAqAABXDV) |  |

### Image6.png CombinedFragment3

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:33 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:33 AM | | Constraint | cart == null | |

### Image6.png CombinedFragment3

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [productFacade](#qS3s6fKGAqAABXEr) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | | Constraint | !productId.isEmpty() | |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:34 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:34 AM | | Constraint | userPath.equals("/updateCart") | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment3](#eR3s6fKGAqAABXS1) |  |

### Image6.png CombinedFragment3

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [productFacade](#qS3s6fKGAqAABXEr) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | | Constraint | !invalidEntry | |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:35 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:35 AM | | Constraint | userPath.equals("/purchase") | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment3](#gV3s6fKGAqAABXZv) |  |

### Image6.png CombinedFragment3

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Operator Kind | opt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |
| Image5.png [productFacade](#qS3s6fKGAqAABXEr) |  |
| Image5.png [orderManager](#W4Ps6fKGAqAABXz9) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:36 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:36 AM | | Constraint | cart != null | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment4](#uQPs6fKGAqAABXuw) |  |

### Image6.png CombinedFragment4

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [orderManager](#W4Ps6fKGAqAABXz9) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |
| Image5.png [productFacade](#qS3s6fKGAqAABXEr) |  |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | | Constraint | validationErrorFlag == true | |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:37 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:37 AM | | Constraint | else | |

#### Children

|  |  |
| --- | --- |
| Name | Documentation |
| Image6.png [CombinedFragment5](#zMPs6fKGAqAABX5R) |  |

### Image6.png CombinedFragment5

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |
| Operand |

#### Covered LifeLines

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [N/A](#GXXs6fKGAqAABWil) |  |
| Image5.png [session](#Zg3s6fKGAqAABWrC) |  |
| Image5.png [orderManager](#W4Ps6fKGAqAABXz9) |  |
| Image5.png [request](#l3Xs6fKGAqAABWk7) |  |
| Image5.png [validator](#eI3s6fKGAqAABWua) |  |
| Image5.png [cart](#Bk3s6fKGAqAABW60) |  |
| Image5.png [productFacade](#qS3s6fKGAqAABXEr) |  |

### Image7.png Operand

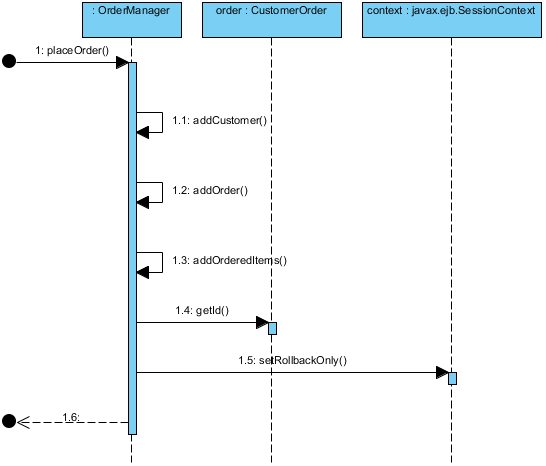
|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:38 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:38 AM | | Constraint | orderId != 0 | |

### Image7.png Operand

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:17:39 AM |
| Guard | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:17:39 AM | | Constraint | else | |

Sequence Diagram

# session.OrderManager.placeOrder(String, String, String, String, String, String, ShoppingCart)



|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:40 AM |
| Last Modified | Sep 4, 2015 8:19:04 AM |
| Request Validate Snap To Grid | false |
| Name | session.OrderManager.placeOrder(String, String, String, String, String, String, ShoppingCart) |
| Request Fix Diagram For Rose Import | false |

## Summary

|  |  |
| --- | --- |
| Name | Documentation |
| Image5.png [: OrderManager](#uh0c6fKGAqAABYph) |  |
| Image5.png [order : CustomerOrder](#Np0c6fKGAqAABZN8) |  |
| Image5.png [context : javax.ejb.SessionContext](#5Z0c6fKGAqAABZRA) |  |

## Details

### Image5.png  : OrderManager

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:40 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [OrderManager](#Fh4s6fKGAqAABSdy) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| setRollbackOnly() : Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [context](#ZZ0c6fKGAqAABZQ3) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Message |
| Sequence Number | 1.5 |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [order](#Vp0c6fKGAqAABZNb) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Message |
| Sequence Number | 1.4 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | | Operation | id | | Operation Type | Attribute Getter | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#2h0c6fKGAqAABYoi) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Self Message |
| Sequence Number | 1.1 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | | Arguments | |  | | --- | | Value | | name (Text) | | email (Text) | | phone (Text) | | address (Text) | | cityRegion (Text) | | ccNumber (Text) | | | Operation | addCustomer | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#2h0c6fKGAqAABYoi) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Self Message |
| Sequence Number | 1.2 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | | Arguments | |  | | --- | | Value | | customer (Text) | | cart (Text) | | | Operation | addOrder | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Message |
| Sequence Number | 1.6 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Return | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#2h0c6fKGAqAABYoi) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Self Message |
| Sequence Number | 1.3 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | | Arguments | |  | | --- | | Value | | order (Text) | | cart (Text) | | | Operation | addOrderedItems | | Operation Type | Operation | |
| Asynchronous | false |

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Message |
| Sequence Number | 1 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | | Operation | placeOrder | | Operation Type | Operation | |
| Asynchronous | false |

### Image5.png order : CustomerOrder

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Multiplicity | Unspecified |
| Base Classifier | Image2.png [CustomerOrder](#z.4s6fKGAqAABR.l) |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#2h0c6fKGAqAABYoi) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Message |
| Sequence Number | 1.4 |
| Action Type | |  |  | | --- | --- | | Name | Value | | Name | Call | | Iteration | false | | Asynchronous | false | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | | Operation | id | | Operation Type | Attribute Getter | |
| Asynchronous | false |

### Image5.png context : javax.ejb.SessionContext

|  |  |
| --- | --- |
| Name | Value |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Multiplicity | Unspecified |
| Base Classifier | javax.ejb.SessionContext |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| setRollbackOnly() : Message | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image5.png [N/A](#2h0c6fKGAqAABYoi) | | Author | Zaic | | Create Date Time | Sep 4, 2015 8:18:41 AM | |
| Author | Zaic |
| Create Date Time | Sep 4, 2015 8:18:41 AM |
| Type | Message |
| Sequence Number | 1.5 |
| Asynchronous | false |