

Model

Package in package "

Model

Version Phase 1.0 Proposed

User created on 11/12/2023. Last modified 11/12/2023

Application

Package in package 'Model'

Application

Version 1.0 Phase 1.0 Proposed

User created on 6/30/2023. Last modified 6/30/2023

Big picture diagram

Class diagram in package 'Application'

Big picture

Version 1.0

User created on 7/6/2023. Last modified 7/6/2023

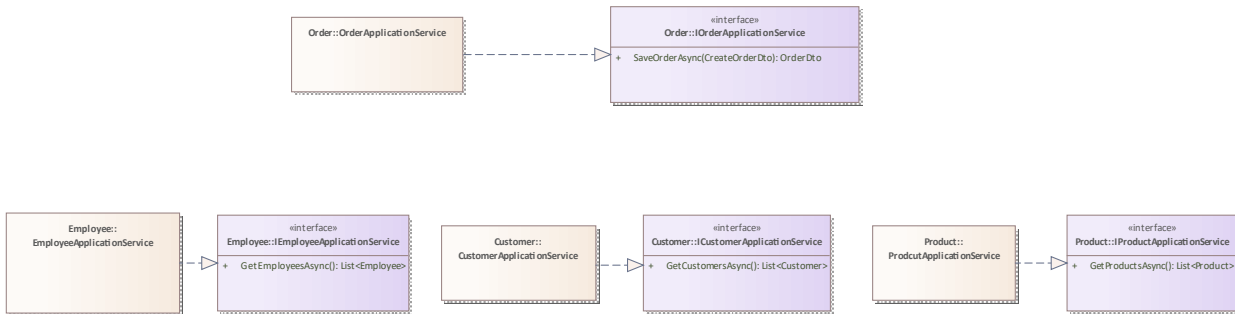


Figure 1: Big picture


OrderApplicationService

Class in package 'Order'

OrderApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Realization from OrderApplicationService to IOrderApplicationService	[Direction is 'Source -> Destination'.]

IOrderApplicationService

Interface in package 'Order'

IOrderApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS

➡ Realization from OrderApplicationService to IOrderApplicationService

[Direction is 'Source -> Destination'.]

OPERATIONS

💎 SaveOrderAsync (orderDto : CreateOrderDto) : OrderDto Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ProdcutApplicationService

Class in package 'Product'

ProdcutApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Realization from ProdcutApplicationService to IProductApplicationService

[Direction is 'Source -> Destination'.]

IProductApplicationService

Interface in package 'Product'

IProductApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS

➡ Realization from ProdcutApplicationService to IProductApplicationService

[Direction is 'Source -> Destination'.]

OPERATIONS

💎 GetProductsAsync () : List<Product> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

EmployeeApplicationService

Class in package 'Employee'

EmployeeApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS

← Realization from EmployeeApplicationService to IEmployeeApplicationService
[Direction is 'Source -> Destination'.]

IEmployeeApplicationService

Interface in package 'Employee'

IEmployeeApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS

→ Realization from EmployeeApplicationService to IEmployeeApplicationService
[Direction is 'Source -> Destination'.]

OPERATIONS

💜 GetEmployeesAsync () : List<Employee> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

CustomerApplicationService

Class in package 'Customer'

CustomerApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS

← Realization from CustomerApplicationService to ICustomerApplicationService
[Direction is 'Source -> Destination'.]

ICustomerApplicationService

Interface in package 'Customer'

ICustomerApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS
<div>➡ Realization from CustomerApplicationService to ICustomerApplicationService</div> <div>[Direction is 'Source -> Destination'.]</div>
OPERATIONS
<div>💎 GetCustomersAsync () : List<Customer> Public</div> <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>

Customer

Package in package 'Application'

Customer

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

Customer application service diagram

Class diagram in package 'Customer'

Customer application service

Version 1.0

User created on 7/6/2023. Last modified 7/6/2023

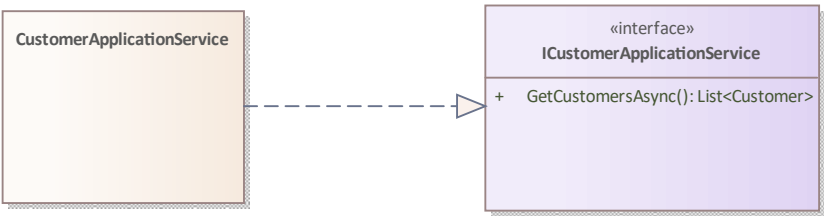


Figure 2: Customer application service

CustomerApplicationService

Class in package 'Customer'

CustomerApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS
<div>⬅ Realization from CustomerApplicationService to ICustomerApplicationService</div> <div>[Direction is 'Source -> Destination'.]</div>

ICustomerApplicationService

Interface in package 'Customer'

ICustomerApplicationService
Version 1.0 Phase 1.0 Proposed
User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS

➡ Realization from CustomerApplicationService to ICustomerApplicationService
[Direction is 'Source -> Destination'.]

OPERATIONS

◆ GetCustomersAsync () : List<Customer> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Employee

Package in package 'Application'

Employee

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

Employee application service diagram

Class diagram in package 'Employee'

Employee application service

Version 1.0

User created on 7/6/2023. Last modified 7/6/2023

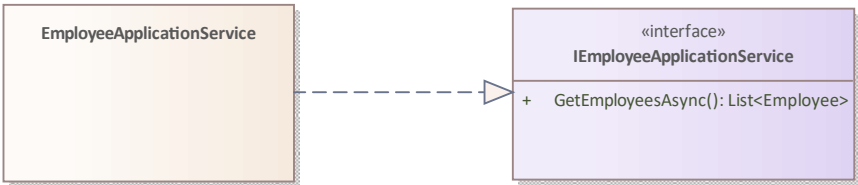


Figure 3: Employee application service

EmployeeApplicationService

Class in package 'Employee'

EmployeeApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS
<div><div>↳</div>Realization from EmployeeApplicationService to IEmployeeApplicationService</div> <div>[Direction is 'Source -> Destination'.]</div>

IEmployeeApplicationService

Interface in package 'Employee'


IEmployeeApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS
<div><div>↳</div>Realization from EmployeeApplicationService to IEmployeeApplicationService</div> <div>[Direction is 'Source -> Destination'.]</div>

OPERATIONS

OPERATIONS	
	<div>GetEmployeesAsync () : List<Employee> Public</div> <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>

Order

Package in package 'Application'

Order

Version 1.0 Phase 1.0 Proposed

User created on 6/30/2023. Last modified 6/30/2023

Order application service diagram

Class diagram in package 'Order'

Order application service

Version 1.0

User created on 6/30/2023. Last modified 7/6/2023

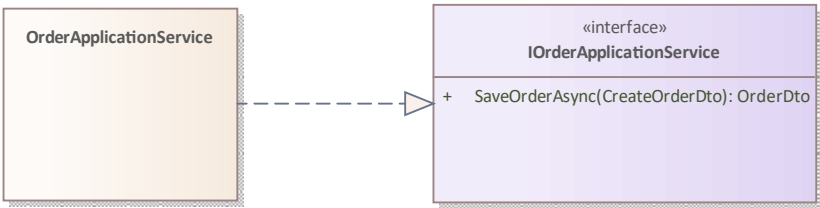


Figure 4: Order application service


OrderApplicationService

Class in package 'Order'

OrderApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Realization from OrderApplicationService to IOrderApplicationService	[Direction is 'Source -> Destination'.]


IOrderApplicationService

Interface in package 'Order'

IOrderApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS	
 Realization from OrderApplicationService to IOrderApplicationService	[Direction is 'Source -> Destination'.]

OPERATIONS

OPERATIONS

◆ SaveOrderAsync (orderDto : CreateOrderDto) : OrderDto Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Product

Package in package 'Application'

Product

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

Product application service diagram

Class diagram in package 'Product'

Product application service

Version 1.0

User created on 7/6/2023. Last modified 7/6/2023



Figure 5: Product application service

ProdcutApplicationService

Class in package 'Product'

ProdcutApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Realization from ProdcutApplicationService to IProductApplicationService	[Direction is 'Source -> Destination'.]

IProductApplicationService

Interface in package 'Product'

IProductApplicationService

Version 1.0 Phase 1.0 Proposed

User created on 7/6/2023. Last modified 7/6/2023

INCOMING STRUCTURAL RELATIONSHIPS	
 Realization from ProdcutApplicationService to IProductApplicationService	[Direction is 'Source -> Destination'.]

OPERATIONS

OPERATIONS

◆ GetProductsAsync () : List<Product> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Use cases

Package in package 'Application'

Use cases

Version 1.0 Phase 1.0 Proposed

User created on 10/23/2023. Last modified 10/23/2023

OMS use cases diagram

Use Case diagram in package 'Use cases'

OMS use cases

Version 1.0

User created on 10/23/2023. Last modified 11/12/2023

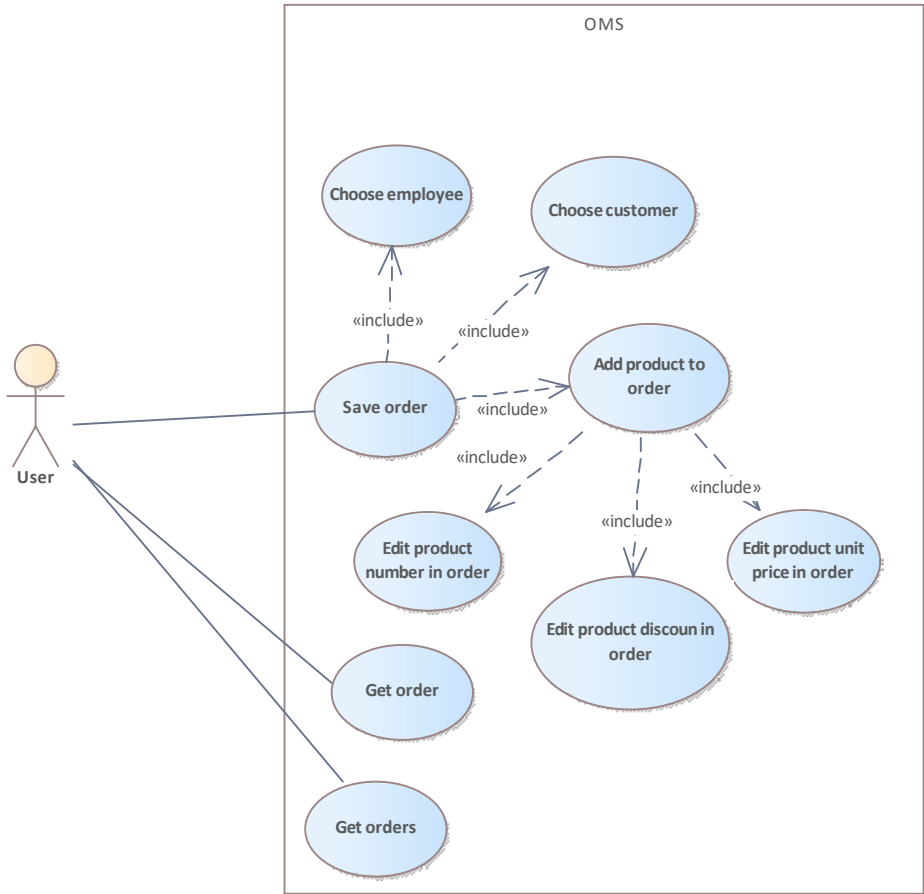


Figure 6: OMS use cases

OMS

Boundary in package 'Use cases'

OMS

Version 1.0 Phase 1.0 Proposed

User created on 10/23/2023. Last modified 10/23/2023

Extends




User

Actor in package 'Use cases'

User

Version 1.0 Phase 1.0 Proposed

User created on 10/23/2023. Last modified 10/23/2023

ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Actor) User	Target: Public (UseCase) Get orders
 Association (direction: Unspecified)	
Source: Public (Actor) User	Target: Public (UseCase) Save order
 Association (direction: Unspecified)	
Source: Public (Actor) User	Target: Public (UseCase) Get order





Add product to order

UseCase in package 'Use cases'

Add product to order

Version 1.0 Phase 1.0 Proposed

User created on 11/12/2023. Last modified 11/12/2023

CONNECTORS	
 Include «include» Source -> Destination From: Add product to order : UseCase, Public To: Edit product discoun in order : UseCase, Public	
 Include «include» Source -> Destination From: Add product to order : UseCase, Public To: Edit product number in order : UseCase, Public	
 Include «include» Source -> Destination From: Add product to order : UseCase, Public To: Edit product unit price in order : UseCase, Public	
 Include «include» Source -> Destination From: Save order : UseCase, Public To: Add product to order : UseCase, Public	

Choose customer

UseCase in package 'Use cases'

Choose customer
Version 1.0 Phase 1.0 Proposed
User created on 11/12/2023. Last modified 11/12/2023

CONNECTORS	
	Include «include» Source -> Destination
From:	Save order : UseCase, Public
To:	Choose customer : UseCase, Public

Choose employee

UseCase in package 'Use cases'


Choose employee
Version 1.0 Phase 1.0 Proposed
User created on 11/12/2023. Last modified 11/12/2023

CONNECTORS	
	Include «include» Source -> Destination
From:	Save order : UseCase, Public
To:	Choose employee : UseCase, Public

Edit product discoun in order

UseCase in package 'Use cases'

Edit product discoun in order
Version 1.0 Phase 1.0 Proposed
User created on 11/12/2023. Last modified 11/12/2023

CONNECTORS	
	Include «include» Source -> Destination
From:	Add product to order : UseCase, Public
To:	Edit product discoun in order : UseCase, Public


Edit product number in order

UseCase in package 'Use cases'

Edit product number in order
Version 1.0 Phase 1.0 Proposed
User created on 11/12/2023. Last modified 11/12/2023

CONNECTORS

CONNECTORS


 **Include** «include» Source -> Destination
From: Add product to order : UseCase, Public
To: Edit product number in order : UseCase, Public

Edit product unit price in order

UseCase in package 'Use cases'

Edit product unit price in order
Version 1.0 Phase 1.0 Proposed
User created on 11/12/2023. Last modified 11/12/2023

CONNECTORS

 **Include** «include» Source -> Destination
From: Add product to order : UseCase, Public
To: Edit product unit price in order : UseCase, Public

Get order

UseCase in package 'Use cases'

Get order
Version 1.0 Phase 1.0 Proposed
User created on 10/23/2023. Last modified 10/23/2023

ASSOCIATIONS

 Association (direction: Unspecified)
Source: Public (Actor) User Target: Public (UseCase) Get order

Get orders

UseCase in package 'Use cases'

Get orders
Version 1.0 Phase 1.0 Proposed
User created on 10/23/2023. Last modified 10/23/2023

ASSOCIATIONS

 Association (direction: Unspecified)
Source: Public (Actor) User Target: Public (UseCase) Get orders

Save order


UseCase in package 'Use cases'


Save order


Version 1.0 Phase 1.0 Proposed

User created on 10/23/2023. Last modified 10/23/2023

CONNECTORS

 **Include** «include» Source -> Destination
From: Save order : UseCase, Public
To: Add product to order : UseCase, Public

 **Include** «include» Source -> Destination
From: Save order : UseCase, Public
To: Choose customer : UseCase, Public

 **Include** «include» Source -> Destination
From: Save order : UseCase, Public
To: Choose employee : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) User

Target: Public (UseCase) Save order

Domain

Package in package 'Model'

Domain

Version 1.0Phase 1.0Proposed

User created on 6/12/2023. Last modified 6/12/2023

Big Picture diagram

Class diagram in package 'Domain'

Big Picture

Version 1.0

User created on 6/12/2023. Last modified 6/13/2023

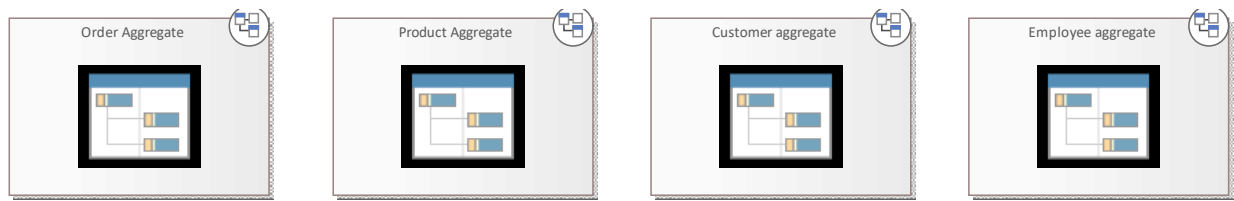


Figure 7: Big Picture

Text

Text «NavigationCell» in package 'Domain'

Text

Version 1.0Phase 1.0Proposed

User created on 6/12/2023. Last modified 6/12/2023

Alias Order Aggregate

Extends

Text

Text «NavigationCell» in package 'Domain'

Text

Version 1.0Phase 1.0Proposed

User created on 6/12/2023. Last modified 6/12/2023

Alias Product Aggregate

Extends

Text

Text «NavigationCell» in package 'Domain'

Text

Version 1.0Phase 1.0Proposed

User created on 6/12/2023. Last modified 6/12/2023

Alias Customer aggregate

Extends

Text

Text «NavigationCell» in package 'Domain'

Text
Version 1.0 Phase 1.0 Proposed
User created on 6/13/2023. Last modified 6/13/2023
Alias Employee aggregate
Extends

ABP Types

Package in package 'Domain'

ABP Types
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

Entity

Class in package 'ABP Types'

Entity with composite key

Entity
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from OrderDetail to Entity	[Direction is 'Source -> Destination'.]

Entity<int>

Class in package 'ABP Types'

Entity<int>
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 10/10/2023

INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from Customer to Entity<int>	[Direction is 'Source -> Destination'.]
⇒ Generalization from Order to Entity<int>	[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from Product to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Employee to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ Id : int Public	[Is static True. Containment is Not Specified.]

Entity<int>

Class in package 'ABP Types'

Entity with single key

Entity<int>
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 10/10/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from Category to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ Id : int Public	[Is static True. Containment is Not Specified.]

ValueObject

Class in package 'ABP Types'

ValueObject
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from AddressObject to ValueObject	[Direction is 'Source -> Destination'.]

Common

Package in package 'Domain'

Common

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

Common diagram

Class diagram in package 'Common'

Common

Version 1.0

User created on 6/12/2023. Last modified 6/12/2023

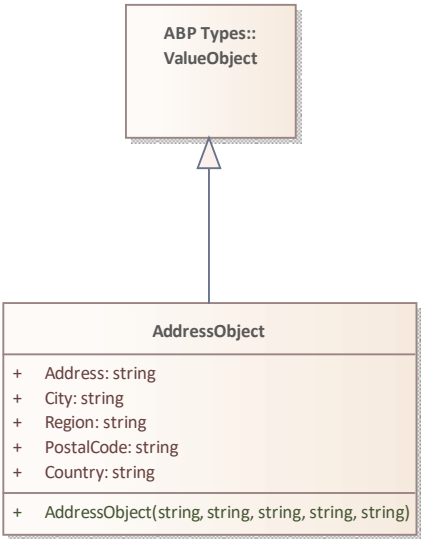


Figure 8: Common

ValueObject

Class in package 'ABP Types'

ValueObject

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from AddressObject to ValueObject	[Direction is 'Source -> Destination'.]

AddressObject

Class in package 'Common'

AddressObject

Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from AddressObject to ValueObject

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ Address : string Public

[Is static True. Containment is Not Specified.]

◆ City : string Public

[Is static True. Containment is Not Specified.]

◆ Region : string Public

[Is static True. Containment is Not Specified.]

◆ PostalCode : string Public

[Is static True. Containment is Not Specified.]

◆ Country : string Public

[Is static True. Containment is Not Specified.]

OPERATIONS

◆ AddressObject (Address : string , Region : string , City : string , PostalCode : string , Country : string) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Customer

Package in package 'Domain'

Customer

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

Domain manager

Package in package 'Customer'

Domain manager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

Domain manager diagram

Class diagram in package 'Domain manager'

Domain manager

Version 1.0

User created on 6/25/2023. Last modified 6/25/2023

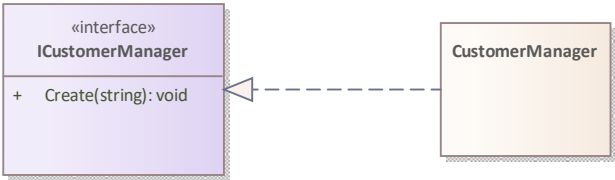


Figure 9: Domain manager


CustomerManager

Class in package 'Domain manager'

CustomerManager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Realization from CustomerManager to ICustomerManager	[Direction is 'Source -> Destination'.]

ICustomerManager

Interface in package 'Domain manager'

ICustomerManager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

INCOMING STRUCTURAL RELATIONSHIPS

➡ Realization from CustomerManager to ICustomerManager

[Direction is 'Source -> Destination'.]

OPERATIONS

💠 Create (name : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Entity

Package in package 'Customer'

Entity

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

Customer aggregate diagram

Class diagram in package 'Entity'

Customer aggregate

Version 1.0

User created on 6/12/2023. Last modified 10/10/2023

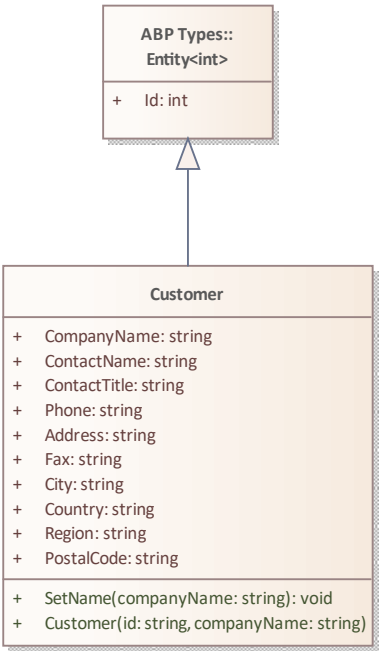


Figure 10: Customer aggregate

Entity<int>

Class in package 'ABP Types'

Entity<int>

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 10/10/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from Customer to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Order to Entity<int>	[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from Product to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Employee to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ Id : int Public	[Is static True. Containment is Not Specified.]

Customer

Class in package 'Entity'

Customer
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Generalization from Customer to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ CompanyName : string Public	[Is static True. Containment is Not Specified.]
◆ ContactName : string Public	[Is static True. Containment is Not Specified.]
◆ ContactTitle : string Public	[Is static True. Containment is Not Specified.]
◆ Phone : string Public	[Is static True. Containment is Not Specified.]
◆ Address : string Public	[Is static True. Containment is Not Specified.]
◆ Fax : string Public	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
◆ City : string Public	[Is static True. Containment is Not Specified.]
◆ Country : string Public	[Is static True. Containment is Not Specified.]
◆ Region : string Public	[Is static True. Containment is Not Specified.]
◆ PostalCode : string Public	[Is static True. Containment is Not Specified.]

OPERATIONS	
◆ SetName (companyName : string) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ Customer (id : string , companyName : string) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Employee

Package in package 'Domain'

Employee
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

Employee aggregate diagram

Class diagram in package 'Employee'

Employee aggregate
Version 1.0
User created on 6/12/2023. Last modified 10/10/2023

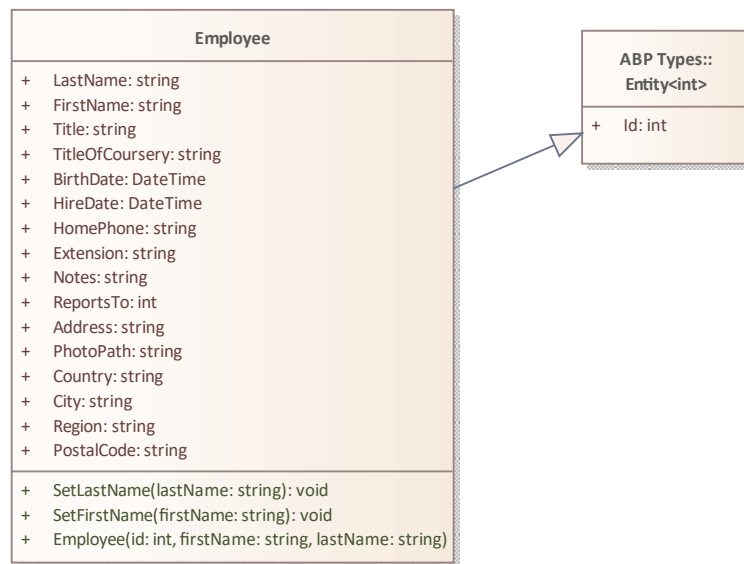



Figure 11: Employee aggregate

Entity<int>

Class in package 'ABP Types'

Entity<int>
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 10/10/2023









INCOMING STRUCTURAL RELATIONSHIPS	
⇒ Generalization from Customer to Entity<int>	[Direction is 'Source -> Destination'.]
⇒ Generalization from Order to Entity<int>	[Direction is 'Source -> Destination'.]
⇒ Generalization from Product to Entity<int>	[Direction is 'Source -> Destination'.]













INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from Employee to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 Id : int Public	[Is static True. Containment is Not Specified.]

Employee

Class in package 'Employee'

Employee
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Employee to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 LastName : string Public	[Is static True. Containment is Not Specified.]
 FirstName : string Public	[Is static True. Containment is Not Specified.]
 Title : string Public	[Is static True. Containment is Not Specified.]
 TitleOfCoursey : string Public	[Is static True. Containment is Not Specified.]
 BirthDate : DateTime Public	[Is static True. Containment is Not Specified.]
 HireDate : DateTime Public	[Is static True. Containment is Not Specified.]
 HomePhone : string Public	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
 Extension : string Public	[Is static True. Containment is Not Specified.]
 Notes : string Public	[Is static True. Containment is Not Specified.]
 ReportsTo : int Public	[Is static True. Containment is Not Specified.]
 Address : string Public	[Is static True. Containment is Not Specified.]
 PhotoPath : string Public	[Is static True. Containment is Not Specified.]
 Country : string Public	[Is static True. Containment is Not Specified.]
 City : string Public	[Is static True. Containment is Not Specified.]
 Region : string Public	[Is static True. Containment is Not Specified.]
 PostalCode : string Public	[Is static True. Containment is Not Specified.]
OPERATIONS	
 SetLastName (lastName : string) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 SetFirstName (firstName : string) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 Employee (id : int , firstName : string , lastName : string) : Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

Order

Package in package 'Domain'

Order

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

Order Aggregate diagram

Class diagram in package 'Order'

Order Aggregate

Version 1.0

User created on 6/12/2023. Last modified 10/10/2023

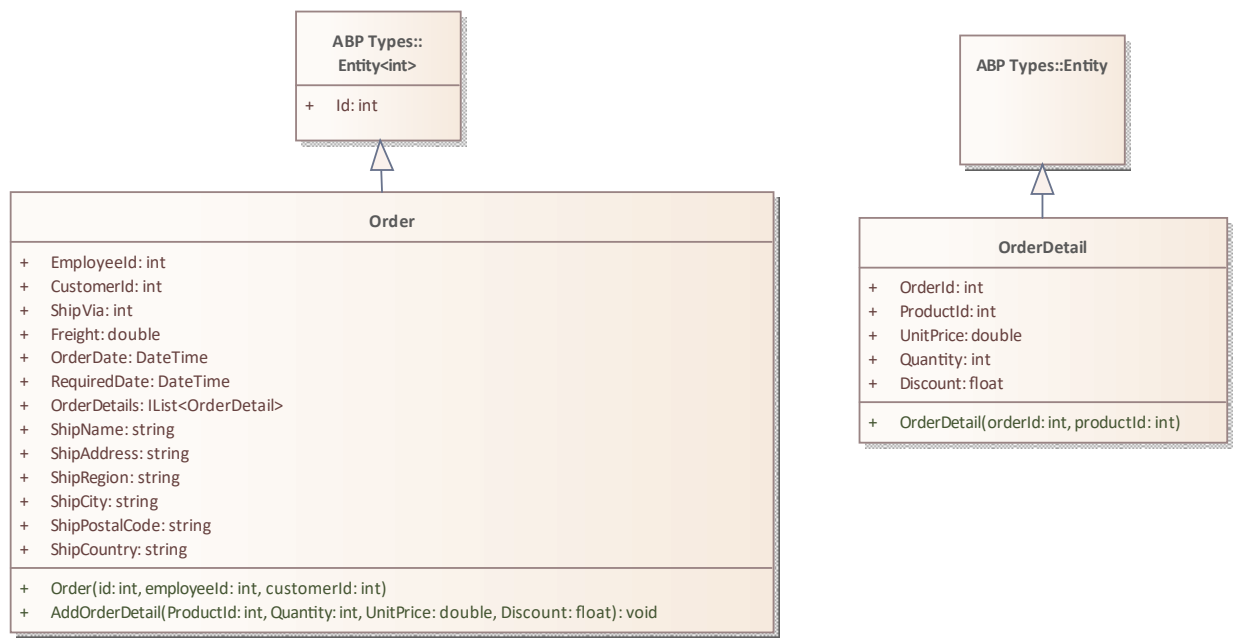


Figure 12: Order Aggregate

Entity

Class in package 'ABP Types'

Entity with composite key

Entity

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from OrderDetail to Entity	[Direction is 'Source -> Destination'.]

Entity<int>

Class in package 'ABP Types'

Entity<int>

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 10/10/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from Customer to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Order to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Product to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Employee to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ Id : int Public	[Is static True. Containment is Not Specified.]

Order*Class in package 'Order'*

Order

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Generalization from Order to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
◆ EmployeeId : int Public	[Is static True. Containment is Not Specified.]
◆ CustomerId : int Public	[Is static True. Containment is Not Specified.]
◆ ShipVia : int Public	

ATTRIBUTES	
	[Is static True. Containment is Not Specified.]
◆ Freight : double Public	[Is static True. Containment is Not Specified.]
◆ OrderDate : DateTime Public	[Is static True. Containment is Not Specified.]
◆ RequiredDate : DateTime Public	[Is static True. Containment is Not Specified.]
◆ OrderDetails : IList<OrderDetail> Public	[Is static True. Containment is Not Specified.]
◆ ShipName : string Public	[Is static True. Containment is Not Specified.]
◆ ShipAddress : string Public	[Is static True. Containment is Not Specified.]
◆ ShipRegion : string Public	[Is static True. Containment is Not Specified.]
◆ ShipCity : string Public	[Is static True. Containment is Not Specified.]
◆ ShipPostalCode : string Public	[Is static True. Containment is Not Specified.]
◆ ShipCountry : string Public	[Is static True. Containment is Not Specified.]

OPERATIONS	
◆ Order (id : int , employeeId : int , customerId : int) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ AddOrderDetail (ProductId : int , Quantity : int , UnitPrice : double , Discount : float) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OrderDetail

Class in package 'Order'

OrderDetail
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/12/2023

OUTGOING STRUCTURAL RELATIONSHIPS

← Generalization from OrderDetail to Entity

[Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ OrderId : int Public

[Is static True. Containment is Not Specified.]

◆ ProductId : int Public

[Is static True. Containment is Not Specified.]

◆ UnitPrice : double Public

[Is static True. Containment is Not Specified.]

◆ Quantity : int Public

[Is static True. Containment is Not Specified.]

◆ Discount : float Public

[Is static True. Containment is Not Specified.]

OPERATIONS

◆ OrderDetail (orderId : int , productId : int) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Product

Package in package 'Domain'

Product

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 6/12/2023

Domain managers

Package in package 'Product'

Domain managers

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

Domain managers diagram

Class diagram in package 'Domain managers'

Domain managers

Version 1.0

User created on 6/25/2023. Last modified 6/25/2023

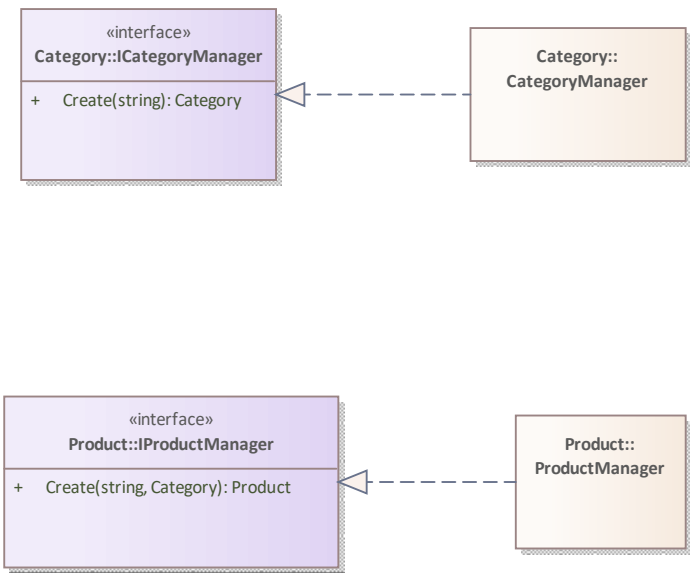


Figure 13: Domain managers

CategoryManager

Class in package 'Category'

CategoryManager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS Realization from CategoryManager to ICategoryManager

[Direction is 'Source -> Destination'.]

ICategoryManager*Interface in package 'Category'*


ICategoryManager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

INCOMING STRUCTURAL RELATIONSHIPS Realization from CategoryManager to ICategoryManager

[Direction is 'Source -> Destination'.]

OPERATIONS Create (name : string) : Category Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ProductManager*Class in package 'Product'*

ProductManager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS Realization from ProductManager to IProductManager

[Direction is 'Source -> Destination'.]

IProductManager*Interface in package 'Product'*

IProductManager

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

INCOMING STRUCTURAL RELATIONSHIPS Realization from ProductManager to IProductManager

[Direction is 'Source -> Destination'.]

OPERATIONS

◆ Create (name : string , category : Category) : Product Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Category

Package in package 'Domain managers'

Category
Version 1.0 Phase 1.0 Proposed
User created on 6/25/2023. Last modified 6/25/2023

CategoryManager

Class in package 'Category'

CategoryManager
Version 1.0 Phase 1.0 Proposed
User created on 6/25/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Realization from CategoryManager to ICategoryManager
[Direction is 'Source -> Destination'.]

ICategoryManager

Interface in package 'Category'

ICategoryManager
Version 1.0 Phase 1.0 Proposed
User created on 6/25/2023. Last modified 6/25/2023

INCOMING STRUCTURAL RELATIONSHIPS

➡ Realization from CategoryManager to ICategoryManager
[Direction is 'Source -> Destination'.]

OPERATIONS

◆ Create (name : string) : Category Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Product

Package in package 'Domain managers'

Product
Version 1.0 Phase 1.0 Proposed
User created on 6/25/2023. Last modified 6/25/2023

ProductManager

Class in package 'Product'

ProductManager
Version 1.0 Phase 1.0 Proposed
User created on 6/25/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS

← Realization from ProductManager to IProductManager

[Direction is 'Source -> Destination'.]

IProductManager

Interface in package 'Product'

IProductManager
Version 1.0 Phase 1.0 Proposed
User created on 6/25/2023. Last modified 6/25/2023

INCOMING STRUCTURAL RELATIONSHIPS

→ Realization from ProductManager to IProductManager

[Direction is 'Source -> Destination'.]

OPERATIONS

◆ Create (name : string , category : Category) : Product Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Entities

Package in package 'Product'

Entities

Version 1.0 Phase 1.0 Proposed

User created on 6/25/2023. Last modified 6/25/2023

Product Aggregate diagram

Class diagram in package 'Entities'

Product Aggregate

Version 1.0

User created on 6/12/2023. Last modified 10/10/2023

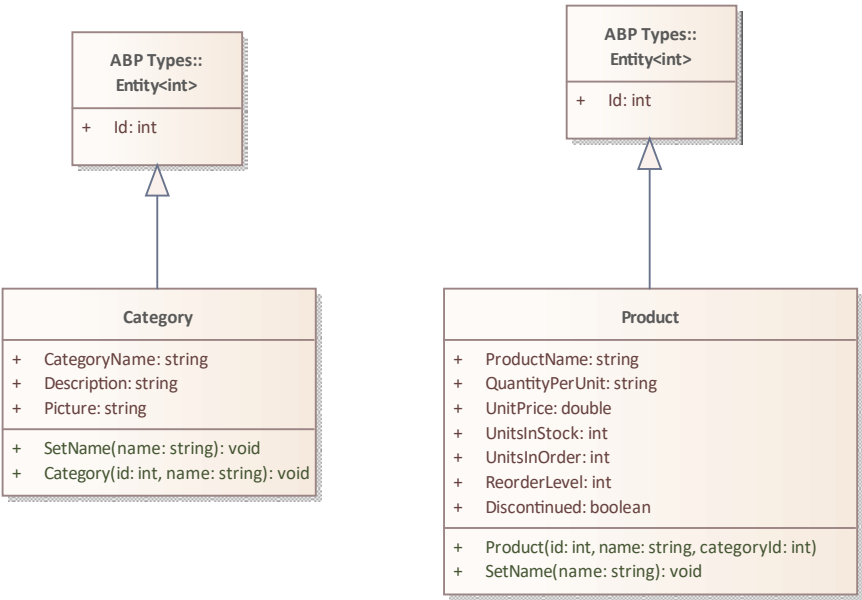


Figure 14: Product Aggregate

Entity<int>

Class in package 'ABP Types'

Entity<int>

Version 1.0 Phase 1.0 Proposed

User created on 6/12/2023. Last modified 10/10/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from Customer to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Order to Entity<int>	[Direction is 'Source -> Destination'.]
➡ Generalization from Product to Entity<int>	[Direction is 'Source -> Destination'.]

INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from Employee to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 Id : int Public	[Is static True. Containment is Not Specified.]

Entity<int>

Class in package 'ABP Types'

Entity with single key

Entity<int>
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 10/10/2023

INCOMING STRUCTURAL RELATIONSHIPS	
 Generalization from Category to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 Id : int Public	[Is static True. Containment is Not Specified.]

Category

Class in package 'Entities'

Category
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
 Generalization from Category to Entity<int>	[Direction is 'Source -> Destination'.]
ATTRIBUTES	
 CategoryName : string Public	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
◆ Description : string Public	[Is static True. Containment is Not Specified.]
◆ Picture : string Public	[Is static True. Containment is Not Specified.]
OPERATIONS	
◆ SetName (name : string) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ Category (id : int , name : string) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Product

Class in package 'Entities'

Product
Version 1.0 Phase 1.0 Proposed
User created on 6/12/2023. Last modified 6/25/2023

OUTGOING STRUCTURAL RELATIONSHIPS	
↔ Generalization from Product to Entity<int>	[Direction is 'Source -> Destination'.]

ATTRIBUTES	
◆ ProductName : string Public	[Is static True. Containment is Not Specified.]
◆ QuantityPerUnit : string Public	[Is static True. Containment is Not Specified.]
◆ UnitPrice : double Public	[Is static True. Containment is Not Specified.]
◆ UnitsInStock : int Public	[Is static True. Containment is Not Specified.]
◆ UnitsInOrder : int Public	[Is static True. Containment is Not Specified.]
◆ ReorderLevel : int Public	[Is static True. Containment is Not Specified.]

ATTRIBUTES

◆ Discontinued : boolean Public

[Is static True. Containment is Not Specified.]

OPERATIONS

◆ Product (id : int , name : string , categoryId : int) : Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ SetName (name : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Interaction between layers

Package in package 'Model'

Interaction between layers
Version 1.0 Phase 1.0 Proposed
User created on 7/5/2023. Last modified 7/5/2023

Edit state of product in real time

Package in package 'Interaction between layers'

Edit state of product in real time
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

Edit number of product in order in real time

Package in package 'Edit state of product in real time'

Edit number of product in order in real time
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

Edit number of product in order in real time diagram

Activity diagram in package 'Edit number of product in order in real time'

Edit number of product in order in real time
Version 1.0
User created on 7/17/2023. Last modified 7/19/2023

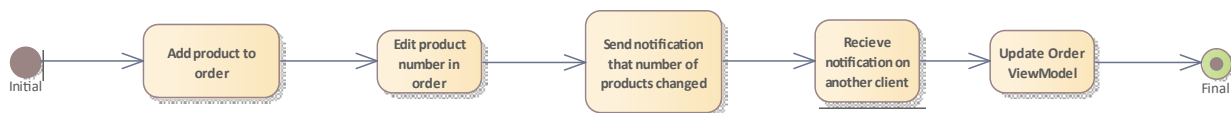


Figure 15: Edit number of product in order in real time

Final

ActivityFinal in package 'Edit number of product in order in real time'

INCOMING BEHAVIORAL RELATIONSHIPS
ControlFlow from Edit number of products on all other instances of application to Final
ControlFlow from Update Order ViewModel to Final

Initial

ActivityInitial in package 'Edit number of product in order in real time'

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Initial to Add product to order

Add product to order

Action in package 'Edit number of product in order in real time'

Add product to order
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Add product to order to Edit product number in order

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Initial to Add product to order

Edit number of products on all other instances of application

Action in package 'Edit number of product in order in real time'

Edit number of products on all other instances of application
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Edit number of products on all other instances of application to Final

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Send notification that number of products changed to Edit number of products on all other instances of application

Edit product number in order

Action in package 'Edit number of product in order in real time'

Edit product number in order
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Edit product number in order to Send notification that number of products changed

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Add product to order to Edit product number in order

Final

ActivityFinal in package 'Edit number of product in order in real time'

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Edit number of products on all other instances of application to Final

ControlFlow from Update Order ViewModel to Final

Initial

ActivityInitial in package 'Edit number of product in order in real time'

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Initial to Add product to order

Recieve notification on another client

Action in package 'Edit number of product in order in real time'

Recieve notification on another client

Version 1.0 Phase 1.0 Proposed

User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Recieve notification on another client to Update Order ViewModel

ControlFlow from Recieve notification on another client to Update repository on another client

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Send notification that number of products changed to Recieve notification on another client

Recieve notification that number of product changed




Action in package 'Edit number of product in order in real time'

Recieve notification that number of product changed
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

Send notification that number of products changed

Action in package 'Edit number of product in order in real time'




Send notification that number of products changed
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Send notification that number of products changed to Recieve notification on another client
 ControlFlow from Send notification that number of products changed to Edit number of products on all other instances of application
INCOMING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Edit product number in order to Send notification that number of products changed

Update Order ViewModel

Action in package 'Edit number of product in order in real time'

Update Order ViewModel
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Update Order ViewModel to Final
INCOMING BEHAVIORAL RELATIONSHIPS
 ControlFlow from Recieve notification on another client to Update Order ViewModel
 ControlFlow from Update repository on another client to Update Order ViewModel

Update repository on another client

Action in package 'Edit number of product in order in real time'

Update repository on another client
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

ControlFlow from Update repository on another client to Update Order ViewModel

INCOMING BEHAVIORAL RELATIONSHIPS

ControlFlow from Recieve notification on another client to Update repository on another client

Interaction between services when edit product number

Package in package 'Edit state of product in real time'

Interaction between services when edit product number

Version 1.0 Phase 1.0 Proposed

User created on 7/17/2023. Last modified 7/17/2023

Interaction between services when edit product number diagram

Interaction diagram in package 'Interaction between services when edit product number'

Interaction between services when edit product number

Version 1.0

User created on 7/17/2023. Last modified 11/8/2023

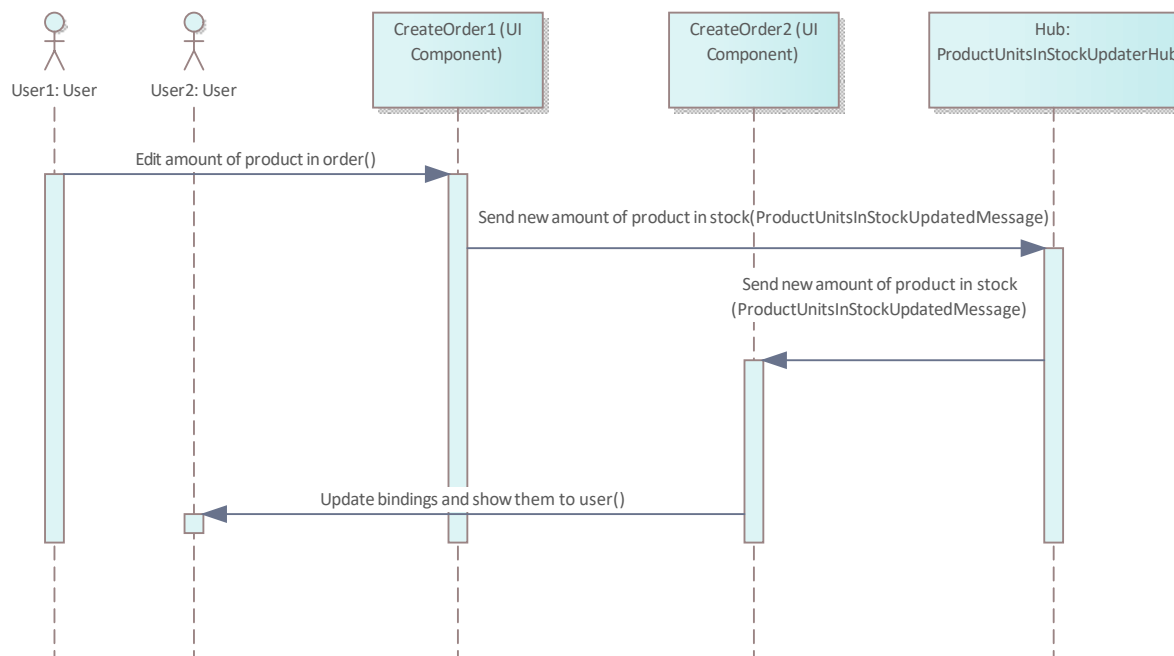


Figure 16: Interaction between services when edit product number

INTERACTION MESSAGES	
<p>✉ 1.0 'Edit amount of product in order' from 'User1: User' sent to 'CreateOrder1 (UI Component)'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>	
<p>✉ 1.1 'Send new amount of product in stock' from 'CreateOrder1 (UI Component)' sent to 'Hub: ProductUnitsInStockUpdaterHub'.</p> <p>Synchronous Call. Returns void.</p> <p>[Return is False. Iteration is False. New group is False.]</p>	

✉ **1.2 'Send new amount of product in stock'** from 'Hub: ProductUnitsInStockUpdaterHub' sent to 'CreateOrder2 (UI Component)'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.3 'Update bindings and show them to user'** from 'CreateOrder2 (UI Component)' sent to 'User2: User'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

User

Actor in package 'Interaction between services when edit product number'

User

Version 1.0 Phase 1.0 Proposed

User created on 9/28/2023. Last modified 9/28/2023

Hub

Object in package 'Interaction between services when edit product number'

Hub

Version 1.0 Phase 1.0 Proposed

User created on 9/28/2023. Last modified 9/28/2023

CreateOrder1 (UI Component)

Sequence in package 'Interaction between services when edit product number'

Class in presentation layer. Contain UI and UI logic for creating order

CreateOrder1 (UI Component)

Version 1.0 Phase 1.0 Proposed

User created on 9/28/2023. Last modified 11/8/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Send new amount of product in stock

Sequence from CreateOrder1 (UI Component) to Hub

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Edit amount of product in order

Sequence from User1 to CreateOrder1 (UI Component)

CreateOrder2 (UI Component)

Sequence in package 'Interaction between services when edit product number'

Class in presentation layer. Contain UI and UI logic for creating order

CreateOrder2 (UI Component)

Version 1.0 Phase 1.0 Proposed

User created on 9/28/2023. Last modified 11/8/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Update bindings and show them to user

Sequence from CreateOrder2 (UI Component) to User2

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Send new amount of product in stock

Sequence from Hub to CreateOrder2 (UI Component)

User1

Sequence in package 'Interaction between services when edit product number'

User1

Version 1.0 Phase 1.0 Proposed

User created on 9/28/2023. Last modified 9/28/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Edit amount of product in order

Sequence from User1 to CreateOrder1 (UI Component)

User2

Sequence in package 'Interaction between services when edit product number'

User2

Version 1.0 Phase 1.0 Proposed

User created on 9/28/2023. Last modified 9/28/2023

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Update bindings and show them to user

Sequence from CreateOrder2 (UI Component) to User2

Services for updating number of products

Package in package 'Edit state of product in real time'

Services for updating number of products
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/17/2023

Services for updating number of products diagram

Class diagram in package 'Services for updating number of products'

Services for updating number of products
Version 1.0
User created on 7/17/2023. Last modified 7/19/2023

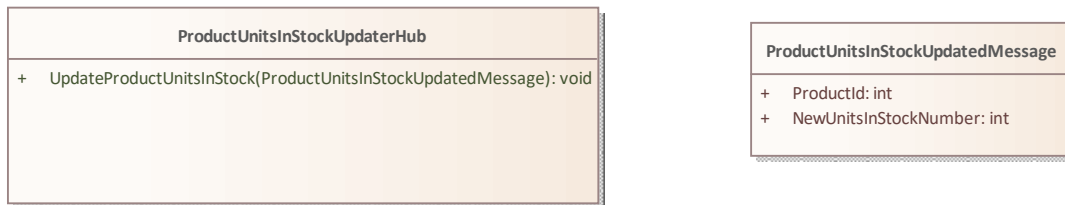


Figure 17: Services for updating number of products

ProductUnitsInStockUpdatedMessage

Class in package 'Services for updating number of products'

ProductUnitsInStockUpdatedMessage
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/19/2023

ATTRIBUTES	
◆ ProductId : int Public	[Is static True. Containment is Not Specified.]
◆ NewUnitsInStockNumber : int Public	[Is static True. Containment is Not Specified.]

ProductUnitsInStockUpdaterHub

Class in package 'Services for updating number of products'

ProductUnitsInStockUpdaterHub
Version 1.0 Phase 1.0 Proposed
User created on 7/17/2023. Last modified 7/19/2023

OPERATIONS	
◆ UpdateProductUnitsInStock (message : ProductUnitsInStockUpdatedMessage) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

Order creation

Package in package 'Interaction between layers'

Order creation

Version 1.0 Phase 1.0 Proposed

User created on 7/5/2023. Last modified 7/5/2023

Order creation sequence diagram

Package in package 'Order creation'

Order creation sequence diagram

Version 1.0 Phase 1.0 Proposed

User created on 7/5/2023. Last modified 7/5/2023

Order creation diagram

Interaction diagram in package 'Order creation sequence diagram'

Order creation

Version 1.0

User created on 7/5/2023. Last modified 11/8/2023

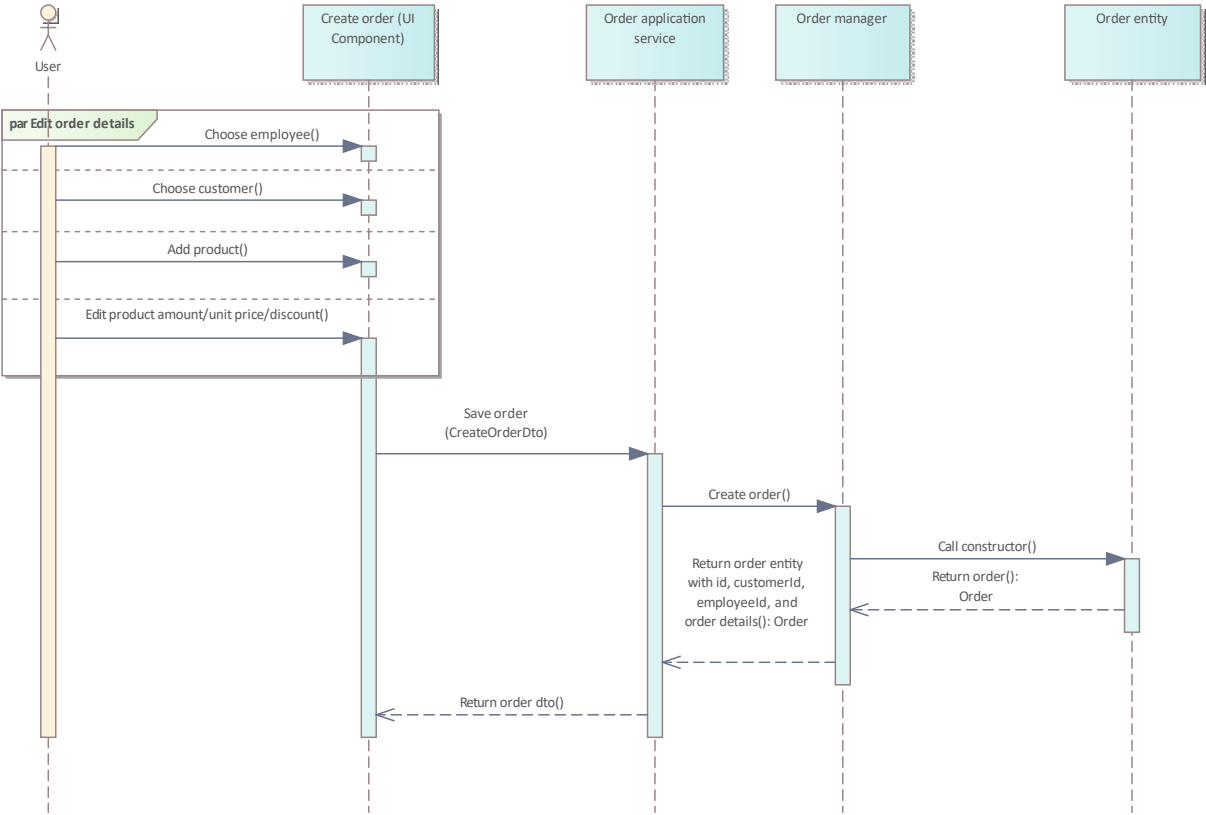


Figure 18: Order creation

INTERACTION MESSAGES

✉ **1.0 'Choose employee'** from 'User' sent to 'Create order (UI Component)'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.1 'Choose customer'** from 'User' sent to 'Create order (UI Component)'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.2 'Add product'** from 'User' sent to 'Create order (UI Component)'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.3 'Edit product amount/unit price/discount'** from 'User' sent to 'Create order (UI Component)'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.4 'Save order(CreateOrderDto)'** from 'Create order (UI Component)' sent to 'Order application service'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.5 'Create order()'** from 'Order application service' sent to 'Order manager'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.6 'Call constructor'** from 'Order manager' sent to 'Order entity'.

Synchronous Call. Returns void.

[Return is False. Iteration is False. New group is False.]

✉ **1.7 'Return order'** from 'Order entity' sent to 'Order manager'.

Synchronous Call. Returns Order.

[Return is True. Iteration is False. New group is False.]

✉ **1.8 'Return order entity with id, customerId, employeeId, and order details'** from 'Order manager' sent to 'Order application service'.

Synchronous Call. Returns Order.

[Return is True. Iteration is False. New group is False.]

✉ **1.9 'Return order dto'** from 'Order application service' sent to 'Create order (UI Component)'.

Synchronous Call. Returns void.

[Return is True. Iteration is False. New group is False.]

User

Actor in package 'Order creation sequence diagram'

User
Version 1.0 Phase 1.0 Proposed
User created on 11/8/2023. Last modified 11/8/2023

OUTGOING BEHAVIORAL RELATIONSHIPS
Name: Choose employee Sequence from User to Create order (UI Component)
Name: Edit product amount/unit price/discount Sequence from User to Create order (UI Component)
Name: Choose customer Sequence from User to Create order (UI Component)
Name: Add product Sequence from User to Create order (UI Component)

Create order (UI Component)

Sequence in package 'Order creation sequence diagram'

Create order (UI Component)
Version 1.0 Phase 1.0 Proposed
User created on 7/5/2023. Last modified 11/8/2023

OUTGOING BEHAVIORAL RELATIONSHIPS
Name: Save order(CreateOrderDto) Sequence from Create order (UI Component) to Order application service

INCOMING BEHAVIORAL RELATIONSHIPS
Name: Return order dto Sequence from Order application service to Create order (UI Component)
Name: Choose employee Sequence from User to Create order (UI Component)
Name: Edit product amount/unit price/discount Sequence from User to Create order (UI Component)
Name: Choose customer Sequence from User to Create order (UI Component)

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Add product

Sequence from User to Create order (UI Component)

Edit order details*InteractionFragment in package 'Order creation sequence diagram'*

Edit order details

Version 1.0 Phase 1.0 Proposed

User created on 7/5/2023. Last modified 7/5/2023

Order application service*Sequence in package 'Order creation sequence diagram'*

Order application service

Version 1.0 Phase 1.0 Proposed

User created on 7/5/2023. Last modified 7/5/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Return order dto

Sequence from Order application service to Create order (UI Component)

Name: Create order()

Sequence from Order application service to Order manager

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Save order(CreateOrderDto)

Sequence from Create order (UI Component) to Order application service

Name: Return order entity with id, customerId, employeeId, and order details

Sequence from Order manager to Order application service

Order entity*Sequence in package 'Order creation sequence diagram'*

Order entity

Version 1.0 Phase 1.0 Proposed

User created on 7/5/2023. Last modified 7/5/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Return order

Sequence from Order entity to Order manager

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Call constructor

Sequence from Order manager to Order entity

Order manager*Sequence in package 'Order creation sequence diagram'*

Order manager

Version 1.0 Phase 1.0 Proposed

User created on 11/8/2023. Last modified 11/8/2023

OUTGOING BEHAVIORAL RELATIONSHIPS

Name: Call constructor

Sequence from Order manager to Order entity

Name: Return order entity with id, customerId, employeeId, and order details

Sequence from Order manager to Order application service

INCOMING BEHAVIORAL RELATIONSHIPS

Name: Create order()

Sequence from Order application service to Order manager

Name: Return order

Sequence from Order entity to Order manager

Order view*Sequence in package 'Order creation sequence diagram'*

Order view

Version 1.0 Phase 1.0 Proposed

User created on 7/5/2023. Last modified 7/5/2023

Order DTOs

Package in package 'Order creation'

Order DTOs
Version 1.0 Phase 1.0 Proposed
User created on 7/5/2023. Last modified 7/5/2023

Order DTOs diagram

Class diagram in package 'Order DTOs'

Order DTOs
Version 1.0
User created on 7/5/2023. Last modified 7/5/2023

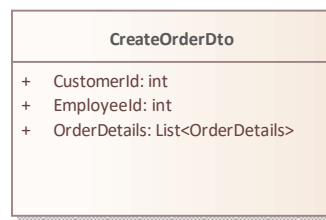


Figure 19: Order DTOs

CreateOrderDto

Class in package 'Order DTOs'

CreateOrderDto
Version 1.0 Phase 1.0 Proposed
User created on 7/5/2023. Last modified 7/5/2023

ATTRIBUTES	
CustomerId : int Public	[Is static True. Containment is Not Specified.]
EmployeeId : int Public	[Is static True. Containment is Not Specified.]
OrderDetails : List<OrderDetails> Public	[Is static True. Containment is Not Specified.]

UI

Package in package 'Model'

UI

Version 1.0 Phase 1.0 Proposed

User created on 6/30/2023. Last modified 6/30/2023

Order

Package in package 'UI'

Order

Version 1.0 Phase 1.0 Proposed

User created on 6/30/2023. Last modified 6/30/2023

Create Order

Package in package 'Order'

Create Order

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023

Class diagram

Package in package 'Create Order'

Class diagram

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023

Create order class view diagram

Class diagram in package 'Class diagram'

Create order class view

Version 1.0

User created on 9/17/2023. Last modified 9/17/2023

CreateOrder
+ Employees: ObservableCollection<EmployeeDto> + Products: ObservableCollection<ProductDtoObservable> + Customers: ObservableCollection<CustomerDto>
+ CreateOrder(employeeApplicationService, productApplicationService, customerApplicationService) # OnAfterRenderAsync(firstRender): Task - FillProductsAsync(): Task - FillCustomersAsync(): Task - FillEmployeesAsync(): Task

Figure 20: Create order class view

CreateOrder*Class in package 'Class diagram'*

CreateOrder

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023

ATTRIBUTES	
◆ Employees : ObservableCollection<EmployeeDto> Public	[Is static True. Containment is Not Specified.]
◆ Products : ObservableCollection<ProductDtoObservable> Public	[Is static True. Containment is Not Specified.]
◆ Customers : ObservableCollection<CustomerDto> Public	[Is static True. Containment is Not Specified.]
OPERATIONS	
◆ CreateOrder (employeeApplicationService : IEmployeeApplicationService , productApplicationService : IProductApplicationService , customerApplicationService : ICustomerApplicationService) : Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ OnAfterRenderAsync (firstRender : bool) : Task Protected	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ FillProductsAsync () : Task Private	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ FillCustomersAsync () : Task Private	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
◆ FillEmployeesAsync () : Task Private	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ProductDtoObservable

Package in package 'Create Order'

ProductDtoObservable

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023

ProductDtoObservable diagram

Class diagram in package 'ProductDtoObservable'

ProductDtoObservable

Version 1.0

User created on 9/17/2023. Last modified 9/17/2023

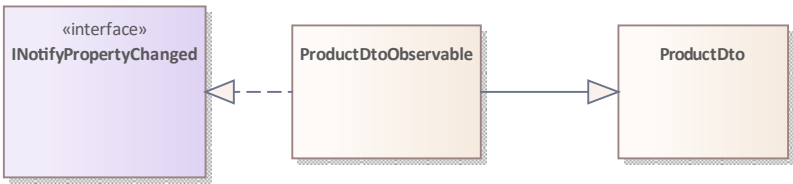


Figure 21: ProductDtoObservable

ProductDto

Class in package 'ProductDtoObservable'

ProductDto

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023

INCOMING STRUCTURAL RELATIONSHIPS	
➡ Generalization from ProductDtoObservable to ProductDto	[Direction is 'Source -> Destination'.]

ProductDtoObservable

Class in package 'ProductDtoObservable'

ProductDtoObservable

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023


OUTGOING STRUCTURAL RELATIONSHIPS	
⬅ Generalization from ProductDtoObservable to ProductDto	[Direction is 'Source -> Destination'.]
⬅ Realization from ProductDtoObservable to INotifyPropertyChanged	[Direction is 'Source -> Destination'.]

INotifyPropertyChanged*Interface in package 'ProductDtoObservable'*

INotifyPropertyChanged

Version 1.0 Phase 1.0 Proposed

User created on 9/17/2023. Last modified 9/17/2023

INCOMING STRUCTURAL RELATIONSHIPS Realization from ProductDtoObservable to INotifyPropertyChanged

[Direction is 'Source -> Destination'.]

Use cases

Package in package 'Order'

Use cases

Version 1.0 Phase 1.0 Proposed

User created on 7/13/2023. Last modified 7/13/2023

Order view diagram

Use Case diagram in package 'Use cases'

Order view

Version 1.0

User created on 6/30/2023. Last modified 7/31/2023

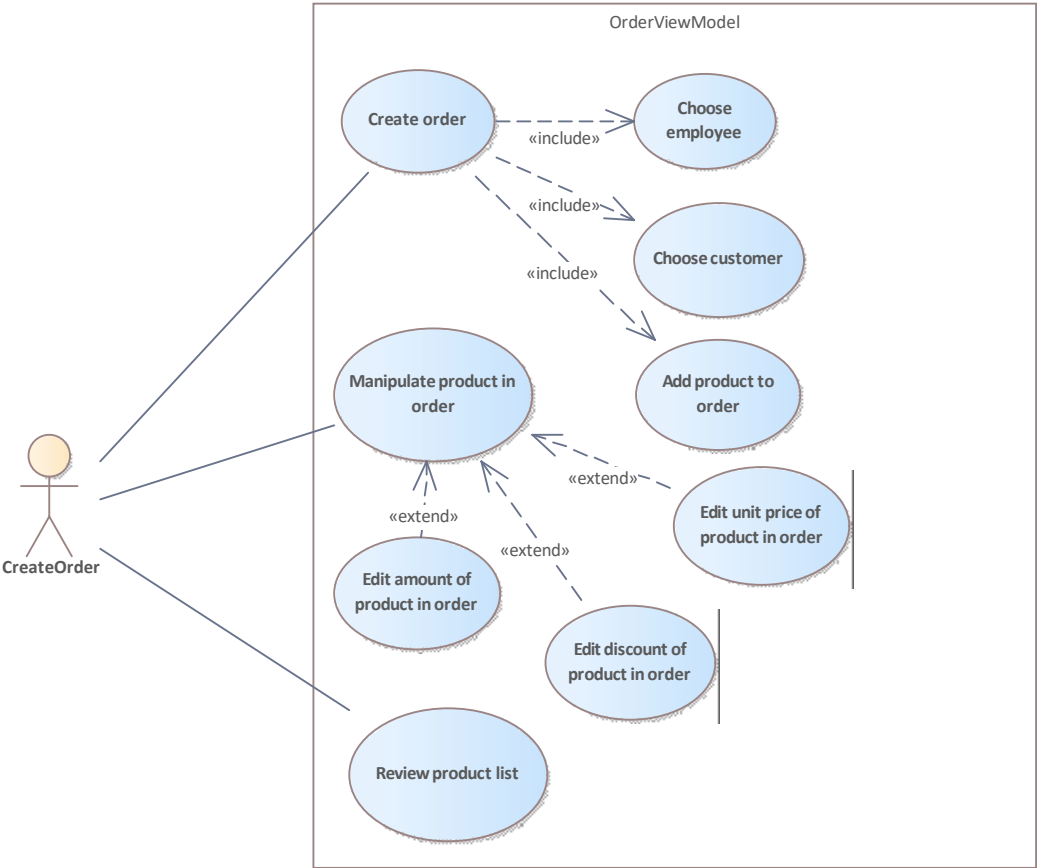


Figure 22: Order view

OrderViewModel

Boundary in package 'Use cases'

OrderViewModel

Version 1.0 Phase 1.0 Proposed




User created on 6/30/2023. Last modified 6/30/2023

Extends

CreateOrder

Actor in package 'Use cases'

CreateOrder
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 9/17/2023

ASSOCIATIONS	
 Association (direction: Unspecified)	
Source: Public (Actor) CreateOrder	Target: Public (UseCase) Review product list
 Association (direction: Unspecified)	
Source: Public (Actor) CreateOrder	Target: Public (UseCase) Manipulate product in order
 Association (direction: Unspecified)	
Source: Public (Actor) CreateOrder	Target: Public (UseCase) Create order

Add product to order

UseCase in package 'Use cases'

Add product to order
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS	
 Include «include» Source -> Destination	
From: Create order : UseCase, Public	
To: Add product to order : UseCase, Public	

Choose customer

UseCase in package 'Use cases'

Choose customer
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS	
 Include «include» Source -> Destination	
From: Create order : UseCase, Public	
To: Choose customer : UseCase, Public	

Choose employee

UseCase in package 'Use cases'





Choose employee
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS	
	Include «include» Source -> Destination From: Create order : UseCase, Public To: Choose employee : UseCase, Public

Create order

UseCase in package 'Use cases'

Create order
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS	
	Include «include» Source -> Destination From: Create order : UseCase, Public To: Add product to order : UseCase, Public
	Include «include» Source -> Destination From: Create order : UseCase, Public To: Choose customer : UseCase, Public
	Include «include» Source -> Destination From: Create order : UseCase, Public To: Choose employee : UseCase, Public
ASSOCIATIONS	
	Association (direction: Unspecified) Source: Public (Actor) CreateOrder Target: Public (UseCase) Create order


Edit amount of product in order

UseCase in package 'Use cases'

Edit amount of product in order
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS

CONNECTORS


 **Extend** «extend» Source -> Destination
From: Edit amount of product in order : UseCase, Public
To: Manipulate product in order : UseCase, Public

Edit discount of product in order

UseCase in package 'Use cases'

Edit discount of product in order
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS


 **Extend** «extend» Source -> Destination
From: Edit discount of product in order : UseCase, Public
To: Manipulate product in order : UseCase, Public

Edit unit price of product in order

UseCase in package 'Use cases'

Edit unit price of product in order
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS


 **Extend** «extend» Source -> Destination
From: Edit unit price of product in order : UseCase, Public
To: Manipulate product in order : UseCase, Public

Manipulate product in order


UseCase in package 'Use cases'


Manipulate product in order
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

CONNECTORS

 **Extend** «extend» Source -> Destination
From: Edit amount of product in order : UseCase, Public
To: Manipulate product in order : UseCase, Public

CONNECTORS

 **Extend** «extend» Source -> Destination
From: Edit discount of product in order : UseCase, Public
To: Manipulate product in order : UseCase, Public

 **Extend** «extend» Source -> Destination
From: Edit unit price of product in order : UseCase, Public
To: Manipulate product in order : UseCase, Public

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) CreateOrder

Target: Public (UseCase) Manipulate product in order

Review product list

UseCase in package 'Use cases'

Review product list
Version 1.0 Phase 1.0 Proposed
User created on 6/30/2023. Last modified 7/13/2023

ASSOCIATIONS

 Association (direction: Unspecified)

Source: Public (Actor) CreateOrder

Target: Public (UseCase) Review product list

View model

Package in package 'Order'

View model
Version 1.0 Phase 1.0 Proposed
User created on 7/13/2023. Last modified 7/17/2023

View Model diagram

Class diagram in package 'View model'

View Model
Version 1.0
User created on 7/13/2023. Last modified 7/13/2023

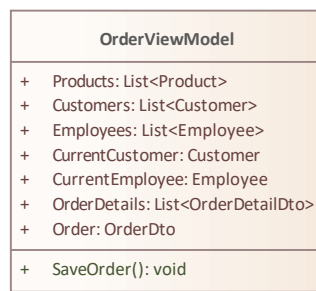





Figure 23: View Model

OrderViewModel

Class in package 'View model'

OrderViewModel
Version 1.0 Phase 1.0 Proposed
User created on 7/13/2023. Last modified 7/13/2023

ATTRIBUTES	
◆ Products : List<Product> Public	[Is static True. Containment is Not Specified.]
◆ Customers : List<Customer> Public	[Is static True. Containment is Not Specified.]
◆ Employees : List<Employee> Public	[Is static True. Containment is Not Specified.]
◆ CurrentCustomer : Customer Public	[Is static True. Containment is Not Specified.]
◆ CurrentEmployee : Employee Public	[Is static True. Containment is Not Specified.]

ATTRIBUTES	
 OrderDetails : List<OrderDetailDto> Public	[Is static True. Containment is Not Specified.]
 Order : OrderDto Public	[Is static True. Containment is Not Specified.]
OPERATIONS	
 SaveOrder () : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]