CopyEntity

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CopyEntity is a method, that is available within any entity. In the model of the AI-Framework, the call is: .Copy. This is the functional name. It copies all fields of an entity (which is a record in memory) to a new entity.

Read more about this in How to > Basic concepts > Entities

Example of usage

```
public IMethodCall MakeCopyOfOrder(){    return Method(() =>
{        var currentOrder = OrdersView.CreateItemReference();
     var newOrder = OrdersView.CreateItemReference();        ret
urn new Body        {            currentOrder.Assign(OrdersView.
Current),            newOrder.Assign(currentOrder.Copy()),
      newOrder.AssignNextOrderNr(),            newOrder.OrderDat
eTime.Assign(DateTimeExpression.Now),            newOrder.Status
.Assign(OrderStatus.Open),            Orders.Save()        };
 })    .SetWorkDescription("make a copy of an order")    .SetIma
ge(CommonImages.ArrowRight)    .Call();}
```

Explanation of the example

This is a method, named MakeCopyOfOrder(), which is situated inside the Entity OrderEntity. It has therefore direct access to the data, related to the table Order.

- Line 5: OrdersView is a view, based on the OrderEntity. The variable currentOrder is defined as a new instance of a record (in memory).
- Line 6: Another variable, newOrder, is also defined as a new instance of a record (in memory).
- Line 10 assigns the Current record of the OrdersView to the variable currentRecord.
- It all happens in line 11: All data in the record, that was just assigned to the variable currentOrder, is now copied to the variable newOrder – that is: the new record in memory.
- After that, three values (fields) are overwritten with new values, so the new record will be unique:
    - A new Order number (line 12),
    - an order date and time stamp (line 13) and
    - the status is set on Open.
- In line 15, the changes that were made in Orders – in memory, that is on entity level – will now be written to the database with Orders.Save().

How to use this

Anywhere in the model code, where the OrderEntity is available, a button can be placed on a form, that invokes this method: Orders.MakeCopyOfOrder(). If, for example, the form shows a list of orders, clicking the button will make a copy of the order that is currently selected in that list.

Online URL: https://wiki-ai-framework.abstract-it.nl/article/copyentity-359.html
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