



# T220 Data Entry and Setup Forms

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# Marenich Sergey

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**Blog:** <http://asiablog.acumatica.com>

**Experience:** 13 years of experience at Acumatica as a developer, solution architect, commerce team lead.

**Specialization:** As a developer, he specializes in C# with deep expertise in Microsoft technologies. Apart from development work, Sergey is also experienced in the field of training, implementations consulting as well as team and customer relationship management.



# Agenda

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## Day 1 – September 8

- Acumatica Architecture
- Training Initial Steps
- Configuring Drop-Downs
- Formulas
- Master-Detail
- ASPX Markup
- PXSelector Attribute
- Configuring a Complex based on Repair Work Order Form

## Day 2 – September 9

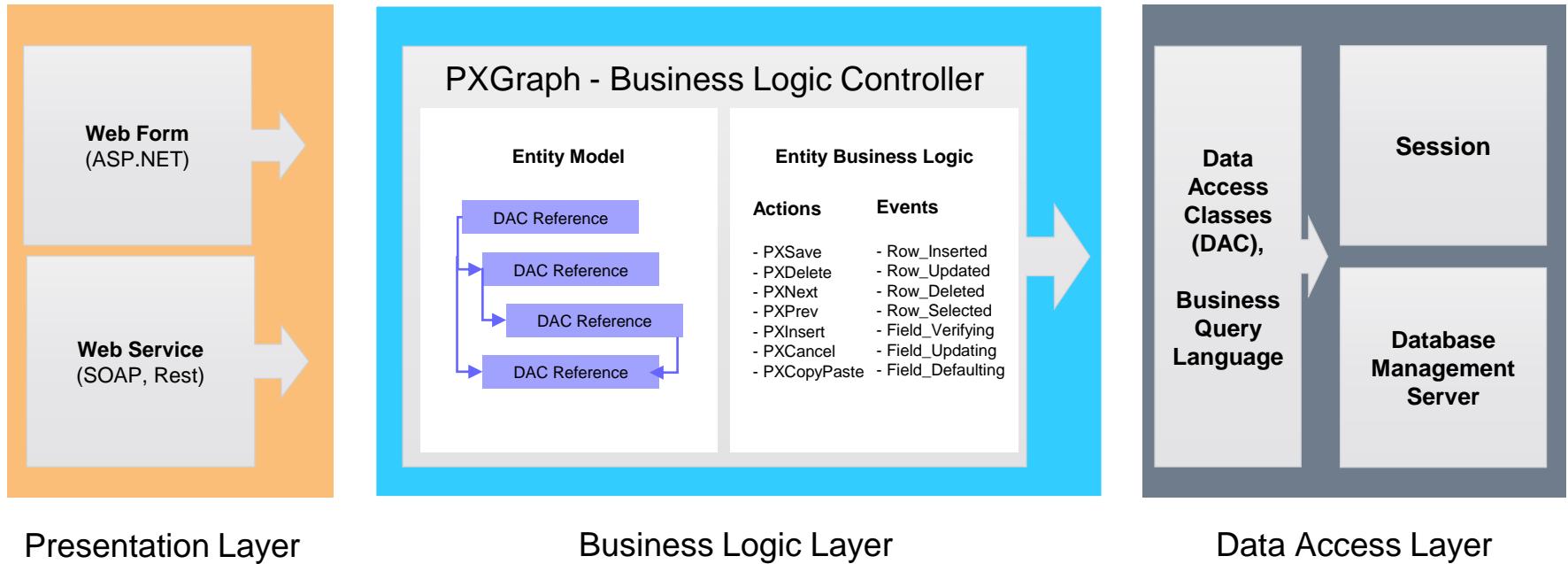
- Form View Mode
- RowTemplate
- Substitute Form with a Shared Filter
- Event Model
- Working with Cache
- PXLayoutRule with Complex Layout
- Declarative Style Programming
- Status Workflow

## Day 3 – September 10

- Fields Validation
- Setup Forms
- PXSetup Data View
- PXPrimaryGraph Attribute
- System Configurations validations
- Auto-Numbering with CS.AutoNumberAttribute
- Use Dialogs

# Acumatica Architecture

# Acumatica Framework Architecture



Presentation Layer

Business Logic Layer

Data Access Layer

# Acumatica Platform Essentials

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- Data Access Classes (DAC)
- Business Logic Containers (Graph)
- Data Views
- Business Query Language (BQL)
- User Interface (ASP.NET)
- Events
- Customizations (Extensions)

## Before we Start

# Useful Development Environment Optimization

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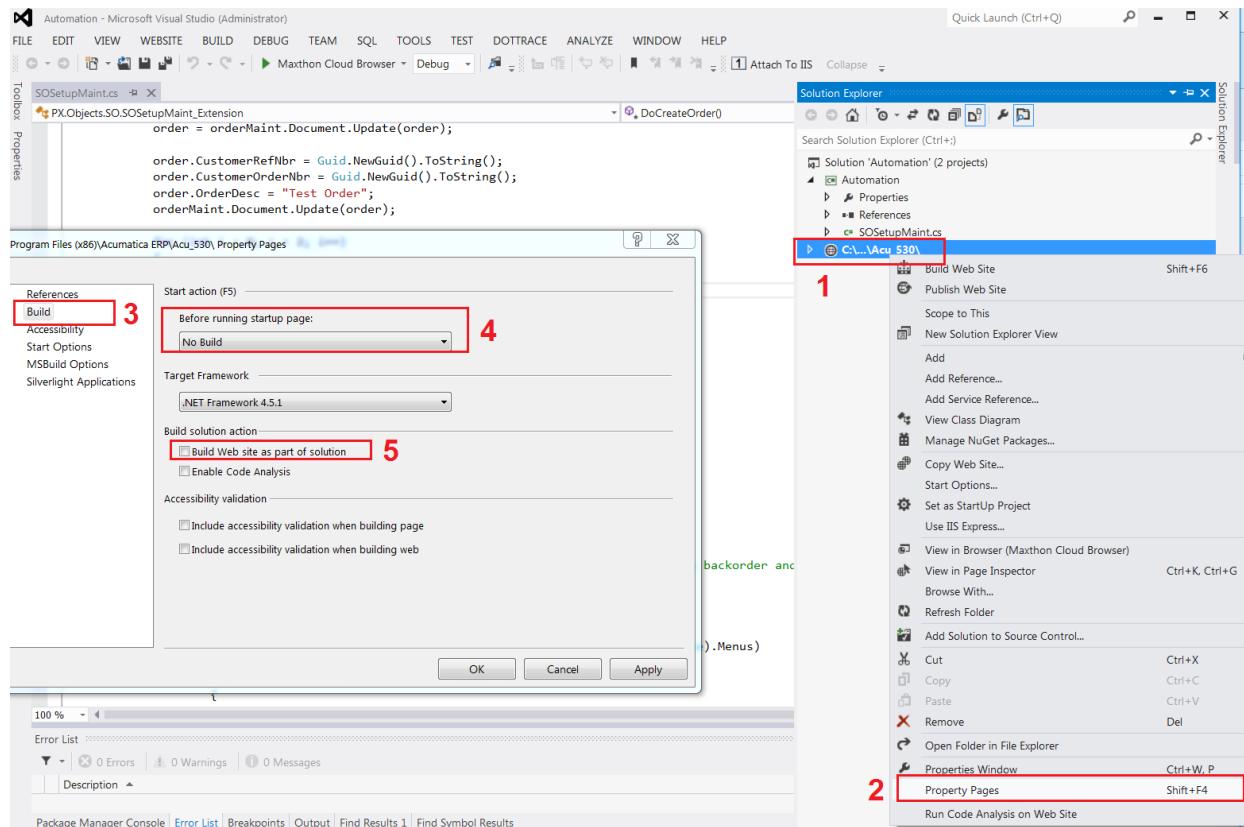
Web.config:

- Enable Debug Web Site - <*compilation debug="True"* ... />
- Optimize Compilation - <*compilation OptimizeCompilations="True"* ... />
- Show Automations - <*add key="AutomationDebug" value="True"* />
- Ignore Scheduler - <*add key="DisableScheduleProcessor" value="True"* />
- Optimize Start-up - <*add key="InstantiateAllCaches" value="False"* />
- Optimize Start-up - <*add key="CompilePages" value="False"* />
- Enable Auto Validation - <*add key="PageValidation" value="True"* />

# Useful Development Environment Optimization

Web Site compilation is slow

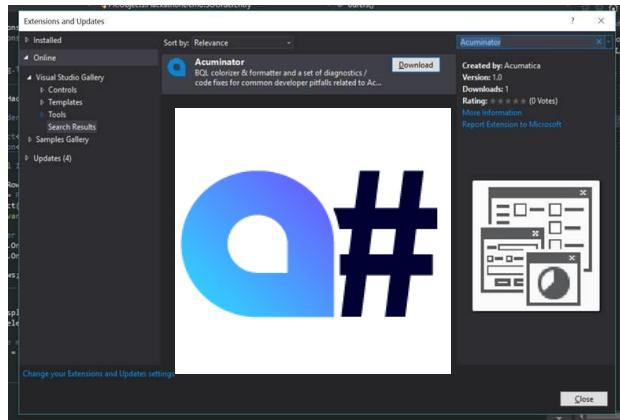
...and isn't necessary



# Useful Development Environment Optimization

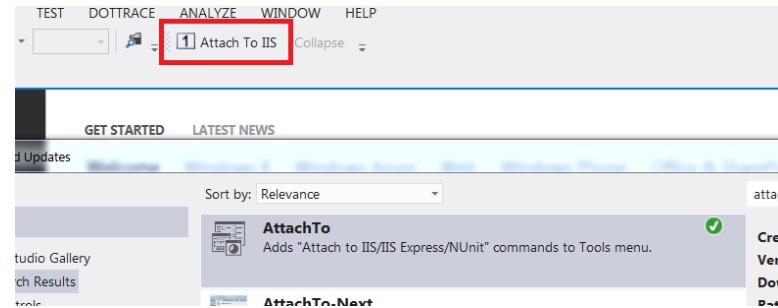
## “Acuminator” Extension

Static code analysis, colorizer and suggestions tool for Acumatica Framework



## “Attach To” Extension

- Attach Debugger to Acumatica with 1-click



# Cheats Store

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<https://github.com/Acumatica/Help-and-Training-Examples>



# The Smart Fix company

## Story

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The Smart Fix company specializes in repairing cell phones of several types. The company provides the following services:

- Battery replacement: This service is provided on customer request and does not require any preliminary diagnostic checks.
- Repair of liquid damage: This service requires a preliminary diagnostic check and a prepayment.
- Screen repair: This service is provided on customer request and does not require any preliminary diagnostic checks.

## T220: The Repair Work Orders Form

# The Repair Work Orders Form

The form will contain the following tabs:

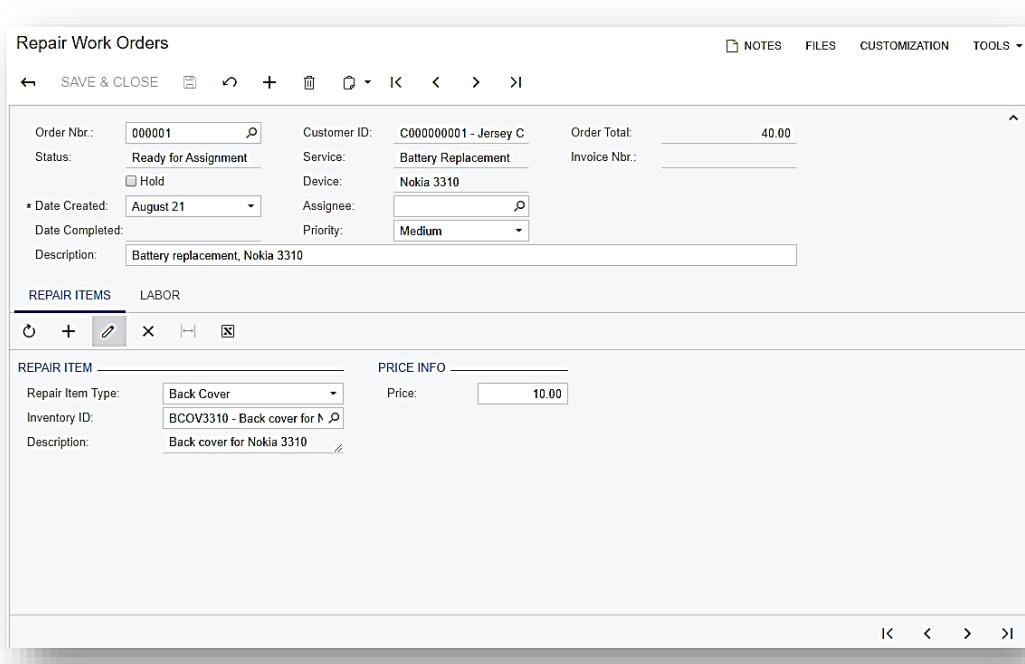
- Repair Items:** Will show the list of repair items (stock items) necessary to complete the repair work order.
- Labor:** Will contain the list of labor items (non-stock items) that are performed for the selected repair work order..

Repair Work Orders

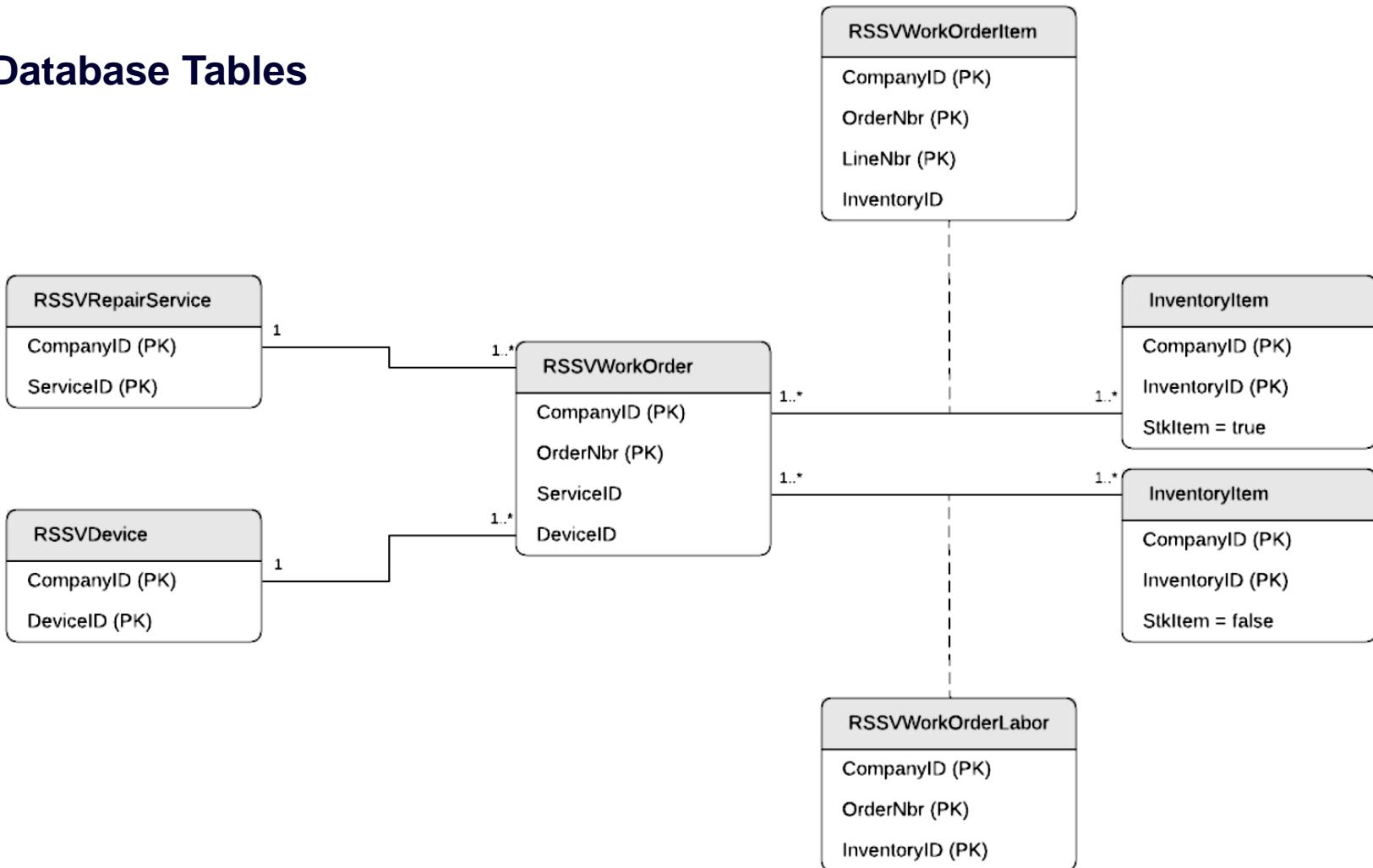
Order Nbr.: 000001 Customer ID: C000000001 - Jersey C Order Total: 40.00  
Status: Ready for Assignment Service: Battery Replacement Invoice Nbr.:  
 Hold Device: Nokia 3310  
\* Date Created: August 21 Assignee:  
Date Completed: Priority:  
Description: Battery replacement, Nokia 3310

REPAIR ITEMS LABOR

Repair Item Type: Back Cover Price: 10.00  
Inventory ID: BCOV3310 - Back cover for N  
Description: Back cover for Nokia 3310



# T220 Database Tables



## Lesson 1.1: Configuring a Complex Form Layout

### Objectives:

- Align controls on a form
- Adjust the size of controls and labels
- Adjust a control to span several columns
- Configure the form view of a grid
- Add a substitute form with a shared filter to the customization project

## **Step 1.1.1: Creating the Form**

# Attributes

# Configuring Drop-Downs

What can you do to the drop-downs?

- Chose between `int` and `string` values
- Set the list of values that the *system* will see
- Set the list of values that a *user* will see

```
[PXStringList(          You will likely use these
    new string[]           values elsewhere,
    {
        Status.OnHold,     so store them in some
        Status.Shipping,   constants!
        Status.Delivered
    },
    new string[]
    {
        "Hold",
        "In progress",
        "Done"
    })
public string Status { get; set; }
```

# Configuring Drop-Downs

---

You can dynamically set the list of drop-down control.

```
PXStringListAttribute.SetList<Shipment.status>(sender, row,  
    new string[] // List of values  
    {  
        ShipmentStatus.OnHold,  
        ShipmentStatus.Shipping,  
    },  
    new string[] // List of labels displayed in the UI  
    {  
        "On Hold",  
        "Shipping",  
    }) ;
```

# PXSelector Attribute

What can you do to them?

- Tell what you want to select
- Restrict what you want to select
- Choose the fields to show in the selector table (even joined)
- Replace the displayed key with a SubstituteKey
- Show a DescriptionField

And a bit more on the page side

Note: selectors perform validation!

```
[PXSelector(  
    typeof(Search<Product.productID,  
        Where<Product.productType,  
            Equal<coolProduct>>>),  
    typeof(Product.productCD),  
    typeof(Product.description),  
    typeof(Product.productType)  
    SubstituteKey =  
        typeof(Product.productCD),  
    DescriptionField =  
        typeof(Product.description)])]  
public virtual Int32? ProductID  
{  
    get;  
    set;  
}
```

# PXSelector - Accessing Related Records

---

`PXSelector` attribute is most commonly used to link entities together

Thus it can help at getting the related object:

```
var customer =  
    (Customer) PXSelectorAttribute  
        .Select<Invoice.customerID>(cache, invoice);
```

Handy, isn't it?

# PXRestriction Attribute

---

Restrictor search the Selector and inject extra conditions and error messages.

DAC:

```
[PXSelector(typeof(Search<Product.productID>)),  
public virtual Int32? ProductID { get; set; }
```

Cache Extension:

```
[PXMergeAttribute(Method = MergeMethod.Append)  
[PXRestrictorAttribute(  
    typeof(Where<Product.active, Equal<True>>),  
    Message.ViolationMessage  
)]  
public virtual Int32? ProductID { get; set; }
```

# Formulas

# Formulas

---

```
[PXDBDecimal(2)]  
[PXUIField(DisplayName = "Price")]  
[PXDefault(TypeCode.Decimal, "0.0")]  
[PXFormula(  
    typeof(Mult<Line.lineQty, Line.unitPrice>),  
    typeof(SumCalc<Document.totalPrice>))]  
public virtual decimal? LinePrice { get; set; }
```

How to **calculate** the field

How to **aggregate** the field

# Formulas

---

Calculate the value of its field:

- Add<,>
- Sub<,>
- Mult<,>
- Div<,>
- Minus<>
- Switch<Case<>,>



Aggregate the resulting values into a *parent's* field with:

- SumCalc<>
- CountCalc<>
- MinCalc<>
- MaxCalc<>

This one enables complex conditional calculations

# Formulas

---

There is also `PXUnboundFormula` – unlike `PXFormula` it doesn't assign the calculated value to the field, which it is attached to

It calculates what it is told to and aggregates it in the parent, without changing anything in the detail record.

```
[PXDBDecimal(2)]
[PXDefault(TypeCode.Decimal, "0.0")]
[PXUnboundFormula(
    typeof(Switch<Case<Where<Current<ShipmentLine.cancelled>, Equal<False>>,
            ShipmentLine.lineQty>,
            decimal_0>),
    typeof(SumCalc<Shipment.totalQty>))]
public virtual decimal? LineQty { get; set; }
```

Note: unbound formula supports only `SumCalc` and `MaxCalc` aggregates.

# Formulas

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[PXFormula(typeof(Validate<...>))]

- formula will raise dependentField's FieldVerifying event each time the RelatedField is updated.

[PXFormula(typeof(Current<...>))]

- formula fetches the field value from the record stored in the Current property of the DAC's cache.

[PXFormula(typeof(Parent<...>))]

- formula fetches the field value from the parent data record as defined by PXParentAttribute.

[PXFormula(typeof(IsTableEmpty<...>))]

- formula returns true if the DB table corresponding to the specified DAC contains no records.

[PXFormula(typeof(Selector<...>))]

- formula can evaluate and update value from foreign record referenced by selector.

[PXFormula(typeof(Default<...>))]

- Raises the FieldDefaulting for the field to which the formula is attached once the specified field changes.

## **Step 1.1.2: Configuring the Controls of the Summary Area**

# ASPX

# Configuring ASP.NET pages

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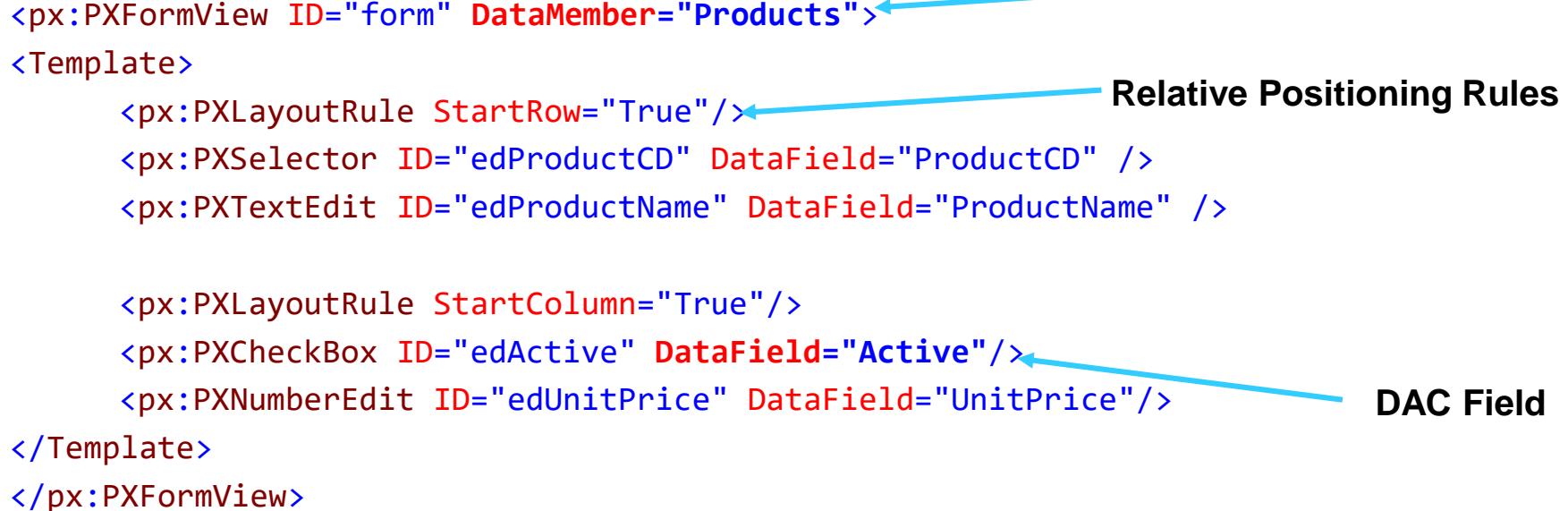
You set:

1. `TypeName` (fully qualified name of the graph) and `PrimaryView` (the name of the primary view) properties of the *data source control*
2. `DataSourceID` and `DataMember` (name of the view) properties of each data-bound container (`PXFormView`, `PXGridLevel` or `PXTab`):
3. `DataField` (name of the field) property of each and every data-bound control (e.g. `PXTextEdit`, `PXSelector`)

# User Interface - ASPX

User Interface in Acumatica controls by ASPX files and LayoutRules

```
<px:PXFormView ID="form" DataMember="Products">  
  <Template>  
    <px:PXLayoutRule StartRow="True"/>  
    <px:PXSelector ID="edProductCD" DataField="ProductCD" />  
    <px:PXTTextEdit ID="edProductName" DataField="ProductName" />  
  
    <px:PXLayoutRule StartColumn="True"/>  
    <px:PXCheckBox ID="edActive" DataField="Active"/>  
    <px:PXNumberEdit ID="edUnitPrice" DataField="UnitPrice"/>  
  </Template>  
</px:PXFormView>
```

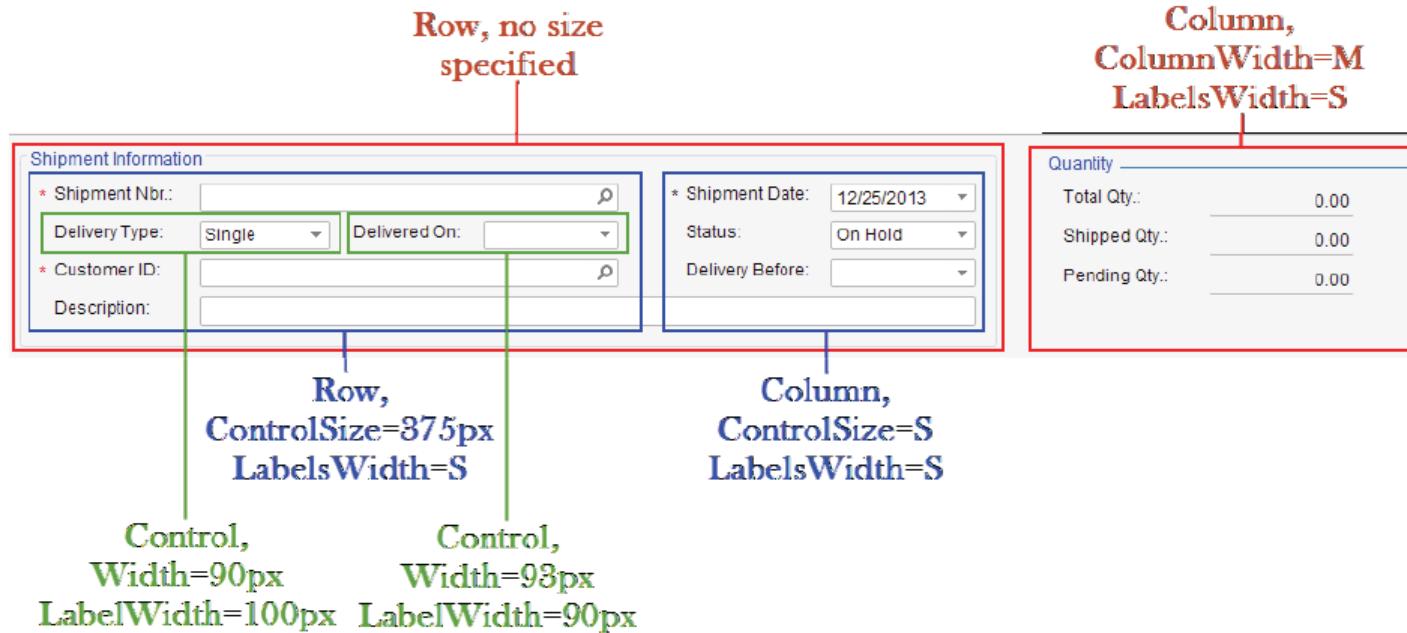


# Attributes defines UI Controls

Control	Attributes on the DAC Field	ASPX Definition
Text box	[PX(DB)String]	<px:PXTTextEdit ID=... />
Number edit box	[PX(DB)Int] or [PX(DB)Decimal]	<px:PXNumberEdit ID=... />
Mask edit box	[PX(DB)String(InputMask =...)]	<px:PXMaskEdit ID=... />
Drop-down list	[PXStringList] or [PXIntList]	<px:PXDropDown ID=... />
Selector	[PXSelector]	<px:PXSelector ID=... />
Check box	[PX(DB)Bool]	<px:PXCheckBox ID=... />
Date-time picker	[PX(DB)Date]	<px:PXDateTimeEdit ID=... />
Time span edit box	[PXDBTimeSpan]	<px:PXDateTimeEdit ID=... TimeMode="True" />

## **Step 1.1.3: Configuring the Layout of the Summary Area of the Form**

# PXLayoutRule + PXPanel



# Layout

# PXLayoutRule

```
<px:PXLayoutRule ID="PXLayoutRule1" runat="server"></px:PXLayoutRule>
```

The look of a form is determined by the contents of its `<Template>` element.

Any form template *must* start with a *Row* layout rule

Add *Column* rules to arrange the subsequent controls in a separate column

The screenshot shows the 'Serviced Devices' screen in Acumatica. At the top, there's a toolbar with icons for back, forward, search, and other functions. Below the toolbar, the title 'Serviced Devices' is displayed with a star icon. To the right of the title are links for 'NOTES', 'FILES', 'CUSTOMIZATION', and 'TOOLS'. The main area contains a 'Device Code' field with a required asterisk, a 'Description' field, and a 'Complexity' dropdown set to 'Medium'. A checked checkbox labeled 'Active' is also present. The entire row of fields is contained within a single horizontal row rule.

# PXLayoutRule

---

You can position controls on the form using rules

- COLUMN (StartColumn="true") – all further controls will be positioned to start with a new column
- ROW (StartRow="true") – all further controls will be positioned to start with a new row
- GROUP – all further controls till next layout rule will be grouped together with header
- MERGE – all further controls till next layout rule will be merged together with single cell
- EMPTY – Ends Group or Merge Rules
- SPAN (ColumnSpan="#") – Stretch field in multiple columns

# Layout Editing – Control Sizes

You can change size of the control with 2 properties:

- “ControlSize” (or Size) – Length of the editor
- “LabelsWidth” – Length of the label

T-Shirt Sizes:

- XXS (40px),              • **XM** (250px),
- XS (70px),              • **L** (300px),
- **S** (100px),              • **XL** (350px),
- **SM** (150px),              • **XXL** (400px)
- **M** (200px),

* Customer Class:	KEY - Key Customers
Label Width	Control Size

Override	Property	Value
<input type="checkbox"/>	<b>Base Properties</b>	
<input type="checkbox"/>	ColumnSpan	
<input type="checkbox"/>	ColumnWidth	
<input type="checkbox"/>	<b>ControlSize</b>	<b>M</b>
<input type="checkbox"/>	EndGroup	
<input type="checkbox"/>	GroupCaption	
<input type="checkbox"/>	<b>LabelsWidth</b>	<b>SM</b>
<input type="checkbox"/>	Merge	
<input type="checkbox"/>	StartColumn	True
<input type="checkbox"/>	StartGroup	

## **Step 1.1.4: Configuring Form View Mode for the Grid**

# RowTemplate

## <RowTemplate>

---

RowTemplate allows you to have more settings than simple GridColumn.

```
<px:PXGridLevel DataMember="Locations">
    <RowTemplate>
        <px:PXSelector AutoRefresh="True" DataField="LocationID" />
    </RowTemplate>
    <Columns>
        <px:PXGridColumn CommitChanges="True" DataField="LocationID" />
    </Columns>
</px:PXGridLevel>
```

One case when you need RowTemplate is when you enable *form edit mode* for the grid.

## **Step 1.1.5: Adding the Substitute Form with a Shared Filter to the Project**

## Lesson 1.2: Copying Field Values from One Record to Another

### Objectives:

- Copy the field values from one record to another record by using event handlers

# Events Model

# Events Declaration - Graphs

---

Classic:

```
public virtual void DAC_Field_FieldUpdated(PXCache cache, PXFieldUpdatedEventArgs e)
{}
public virtual void DAC_RowInserting(PXCache cache, PXRowInsertingEventArgs e)
{}
```

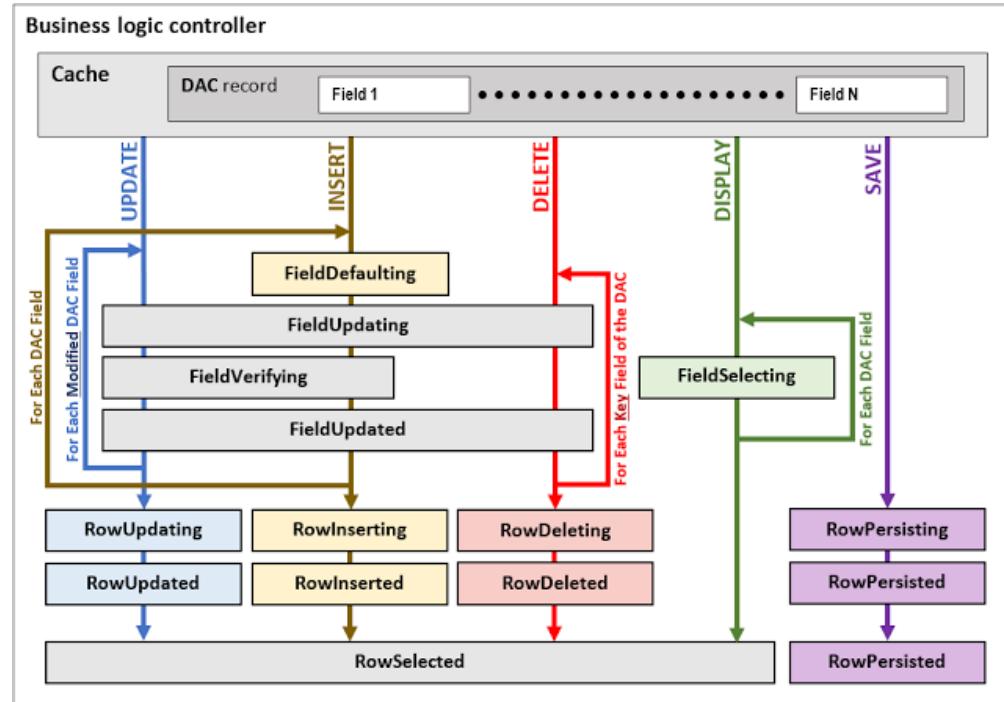
Generic:

```
public virtual void _(Events.FieldUpdated<DAC, DAC.field> e)
{}
public virtual void _(Events.RowInserting<DAC> e)
{}
```

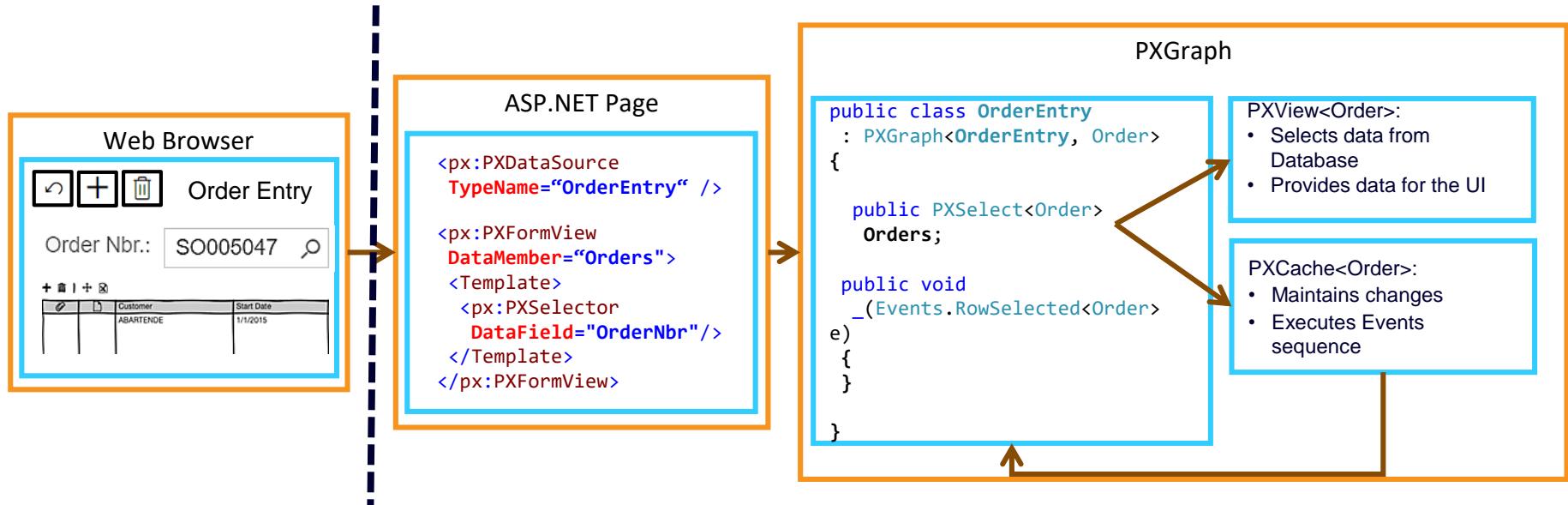
# Understanding The Event Model

Acumatica events:

- 12 Row-level events
- 5 Field-level events



# Where do events come from? - Example



# Handling Rows Events

---

RowInserting – occurs before inserting into the cache

RowInserted – occurs after inserting into the cache

RowUpdating – occurs before updating of cached record

RowUpdated – occurs after updating of cached record

RowDeleting – occurs before deleting record from the cache

RowDeleted – occurs after deleting record from the cache

RowPersisting – occurs before saving record to the database

RowPersisted – occurs after saving record to the database

## Handling Rows Events

---

RowSelecting – occurs system reads record from database reader

RowSelected – occurs when system should show record to the UI

CommandPreparing – occurs when system generates SQL script

ExceptionHandling – occurs when system handles the exception

# Handling Fields Events

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FieldDefaulting – occurs when system calc default value for the field.

FieldVerifiyng – occurs when need to validate input value.

FieldUpdated – occurs when the field value is changed.

FieldSelecting – occurs when need to show the field to the UI.

FieldUpdating – occurs when field is coming from the UI.

Do not forget to take care of CommitChanges

## Modifying Data in Cache

## Modifying Data in Cache

---

`var row = cache.Insert()` – simply inserts a new record into cache.

`var row = cache.Insert(object)` – does nothing and returns `null` if a record with the same keys already exists in the cache. Inserts the record and returns the *inserted* one otherwise.

`var row = cache.Update(object)` – updates the record if it is already in the cache. If there is no such record in the cache, gets it from the DB, puts into the cache and updates. If there is no suitable record in the DB, it is inserted with `Insert()`.

`var row = cache.Delete(object)` – sets `Deleted` status for the record. Similarly to the `Update(..)` will go to DB if fails to find the record in the cache. No, the record is not removed from the cache or the database. Feels crazy?

## Modifying Data in Cache

---

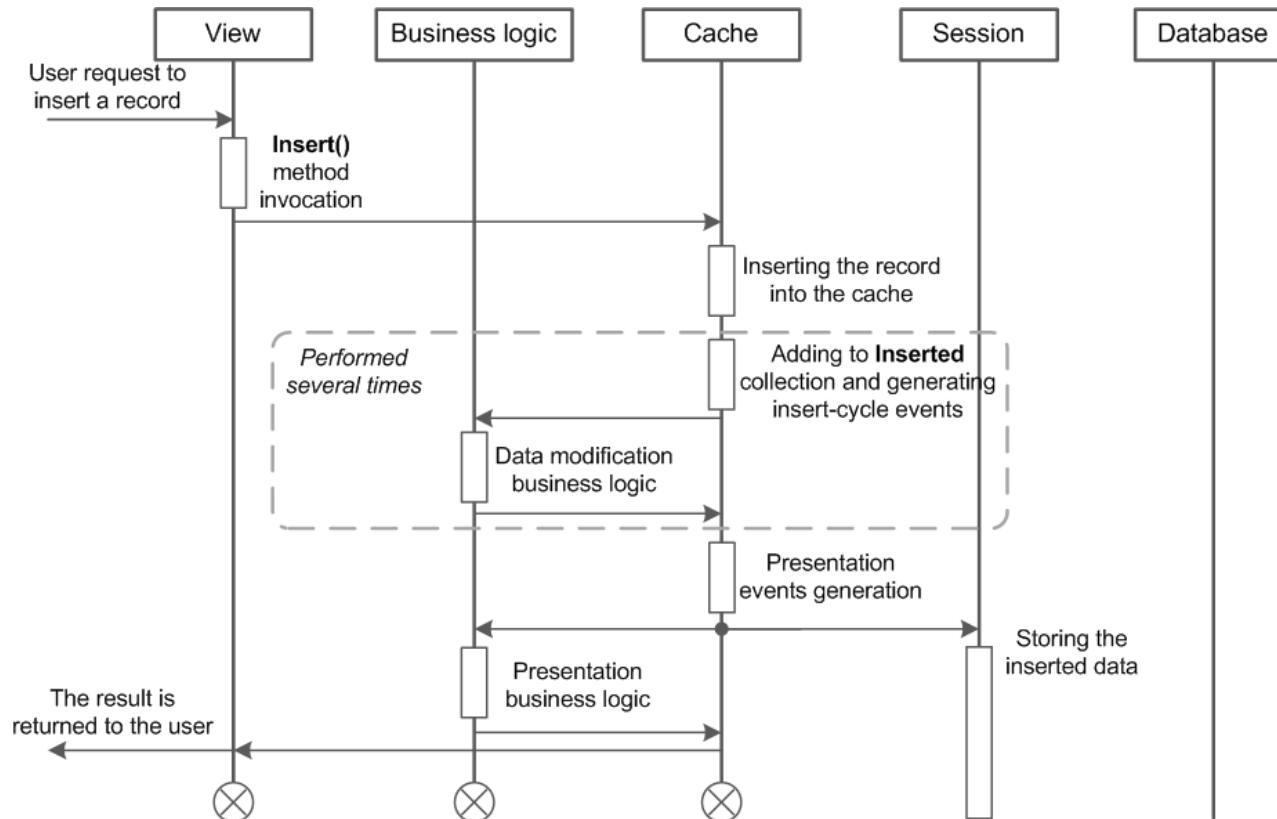
`cache.SetValueExt<DAC.field>(row, newValue)` – sets the field and raises FieldUpdated event. *Note:* record status is not changed, RowUpdated is not fired.

`cache.SetValueExt<DAC.field>()` – sets the default value of the field and raises all the required

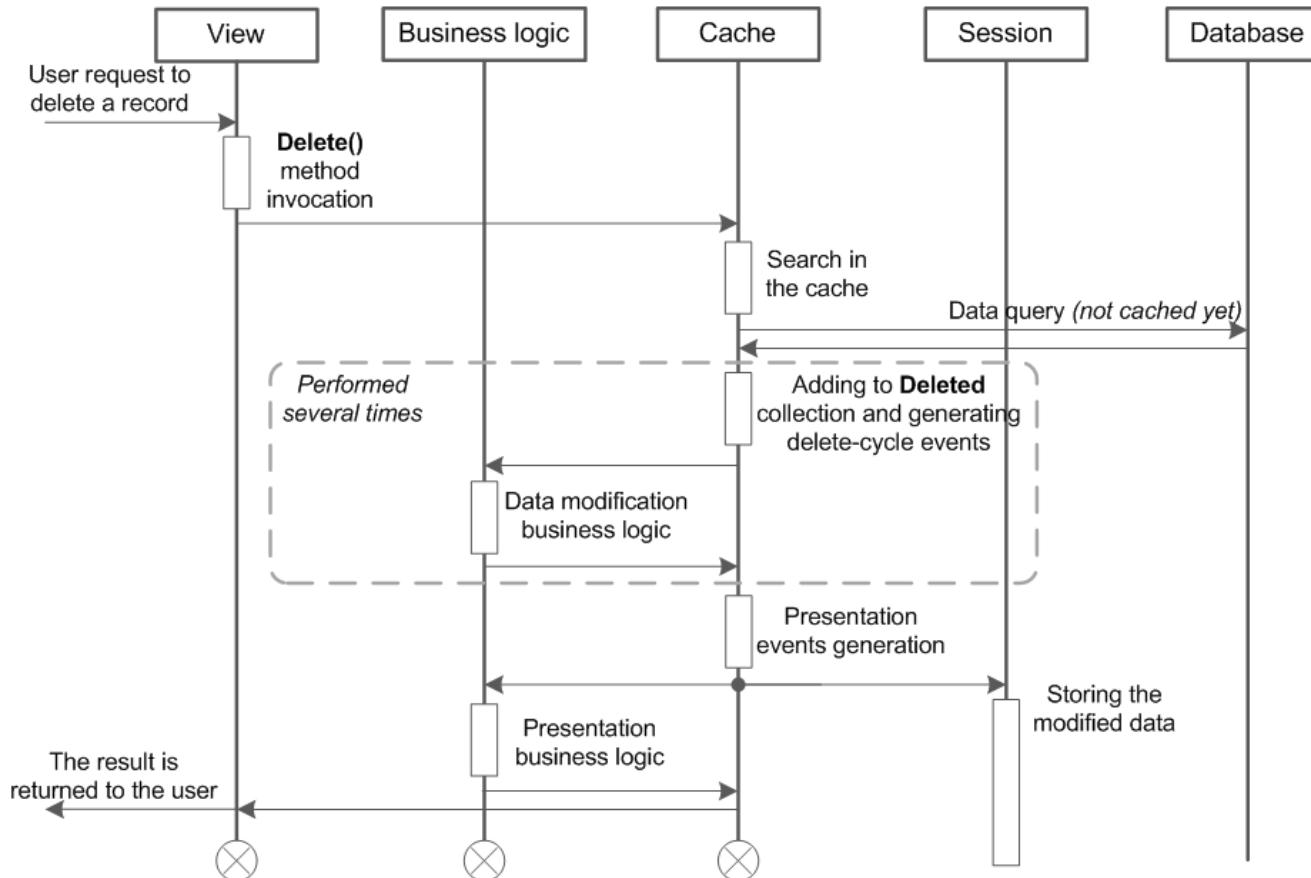
`cache.Locate(row)` (e.g. `var acct = Accounts.Cache.Locate(row)`) – looks up a record with matching keys in the cache. Doesn't go to the DB.

Can be done either on the cache object or through a data view instance.

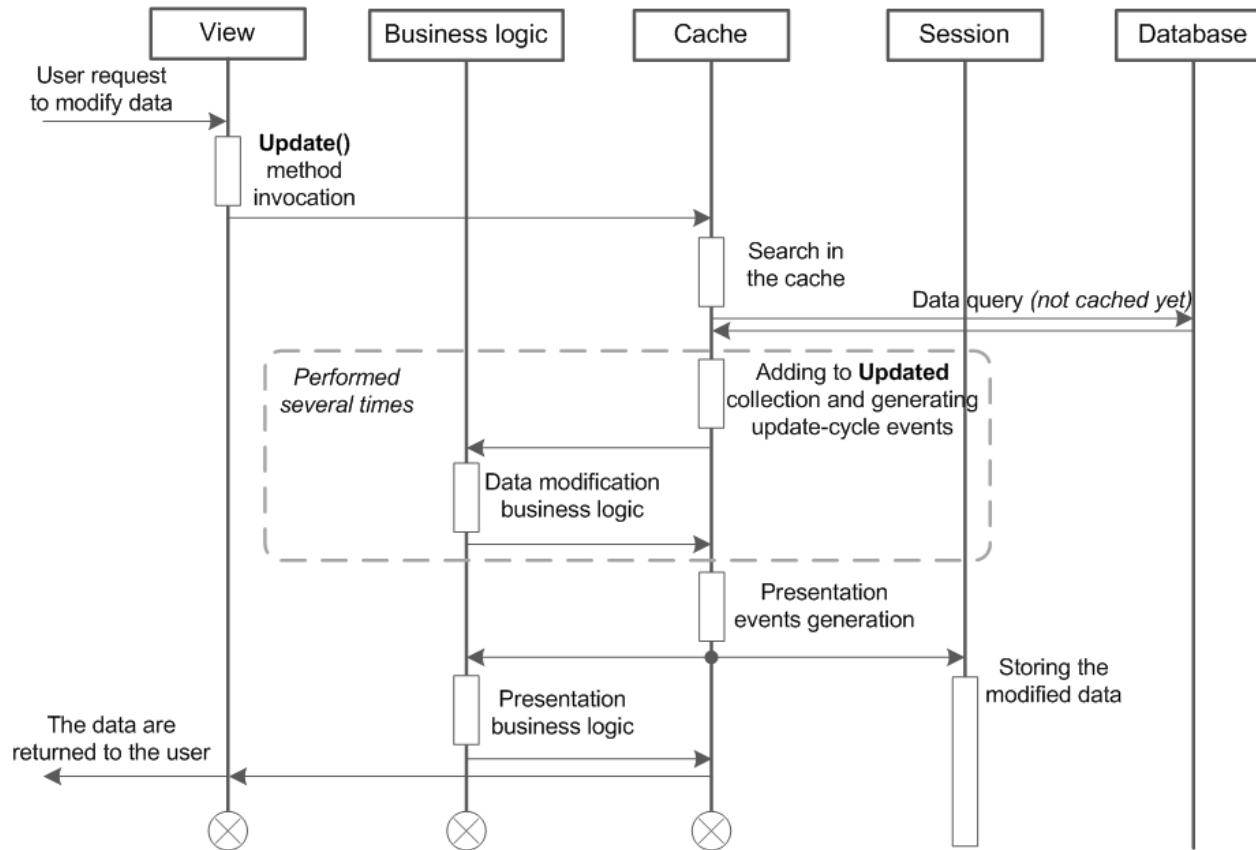
# Inserting a New Entity Record



# Deleting an Existing Entity Record



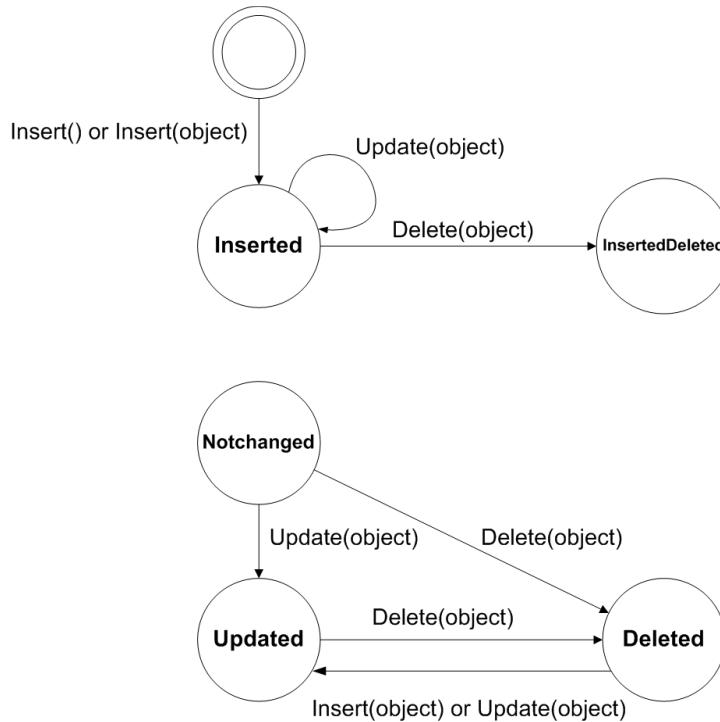
# Updating an Existing Entity Record



# Record Statuses

It's pretty sane actually. Other statuses are:

- Notchanged
- Updated
- Inserted
- Deleted
- InsertedDeleted



## Lesson 1.3: Implementing the Status Logic

### Objectives:

- Implement the logic related to the statuses selected when the Hold check box is cleared
- Implement the run time UI logic by using the attributes

# BQL - Constants

---

A BQL Constants is derived from the generic Constant<T>

```
public class decimal_100 : PX.Data.BQL.BqlString.Constant<Decimal>
{
    public decimal_100() : base(100m) { }
}
```

Usage:

```
public PXSelect<Product,
    Where<Div<Product.minAvailQty, decimal_100>,
    GreaterEqual<decimal_1>>> Records;

public SelectFrom<Contract>.
    Where<Contract.contractCD.IsNotNull<defaultWarranty>>.
    View DefaultWarranty;
```

# Adjusting UI Dynamically

---

Instead of PXUIEnabledAttribute.SetEnabled(...)

Declarative Style:

- Set Enabled

```
[PXUIEnabledAttribute(  
    typeof(Where<InventoryItemExt.usrRepairItem, Equal<True>>))]
```

- Set Visible

```
[PXUIVisibleAttribute(  
    typeof(Where<InventoryItemExt.usrRepairItem, Equal<True>>))]
```

## Lesson 1.4: Validating the Field Values

### Objectives:

- The value of a field that does not depend on the values of other fields of the same record
- The value of a field that depends on the values of other fields of the same record

## Validating Data – Single Field

---

The most natural place to implement validation is the `FieldVerifying` event handler

However, `FieldVerifying` doesn't suit the case when validation logic depends on several fields – use `RowUpdating` under such circumstances

Anyway, if something is wrong you can simply:

```
throw new PXSetPropertyException("Danger!!!!");
```

In addition to setting an error or warning sign on a particular field:

```
cache.RaiseExceptionHandling<ShipmentLine.lineQty>(
    line, e.NewValue,
    new PXSetPropertyException("Danger!!!!", PXErrorLevel.Warning));
```

\* Don't forget `CommitChanges` if you want the warnings right away!

## Validating Data – Single Field

---

Instead of throwing errors at user you could also adjust the value yourself:

```
e.NewValue = product.MinAvailQty;
```

But be sure to let user know about the fact that something has changed with a warning icon and message on a field in UI:

```
cache.RaiseExceptionHandling<ShipmentLine.lineQty>(
    line,
    e.NewValue,
    new PXSetPropertyException("Changed!!!!", PXErrorLevel.Warning));
```

## Validating Data - Dependent Fields

---

When validation logic changes based on the values of other fields of the same record, which are declared earlier, we don't use `FieldVerifying`

We do use `RowUpdating`, whose handler has access to:

- `e.NewRow` – modified record, and
- `e.Row` – original version of the record

Given these, we can check whether any of the fields affecting validation have changed with `cache.ObjectsEqual` and validate if that's the case:

```
if (cache.ObjectsEqual<DAC.field1, DAC.field2>(e.NewRow, e.Row) ==  
false)  
  
{ /* Validation for the case field1 or field2 has changed */ }
```

## Validating Data - Dependent Fields

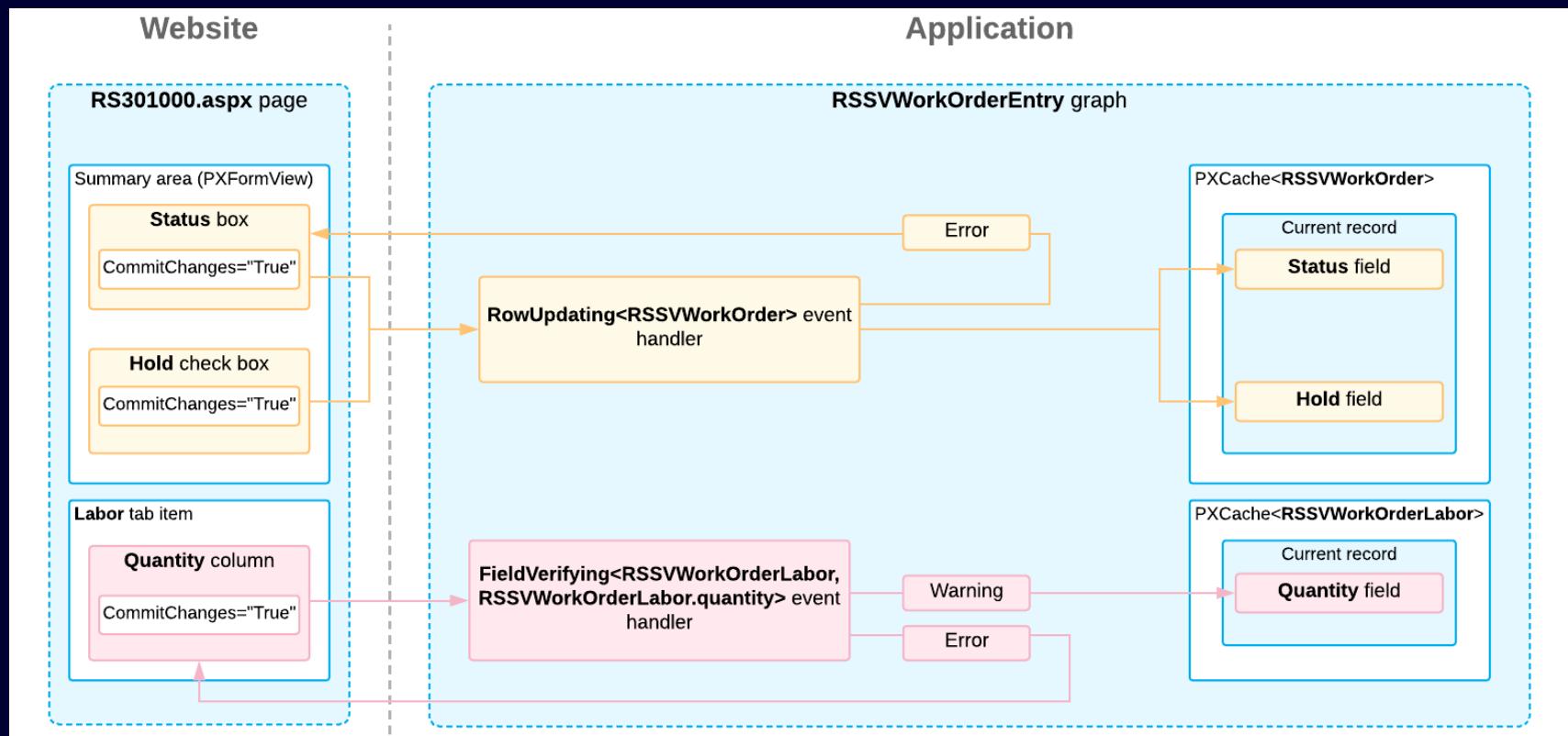
---

Instead of RowUpdating or FieldVerifying

Declarative Style:

```
[PXUIVerifyAttribute(  
    typeof(Where<InventoryItemExt.ustMinQty, GreaterThan<Zero>>))]
```

# Summary



## Application

### RSSVWorkOrderEntry graph

RowUpdating<RSSVWorkOrder> event handler

Error

FieldVerifying<RSSVWorkOrderLabor,  
RSSVWorkOrderLabor.quantity> event  
handler

Warning

Error

PXCache<RSSVWorkOrder>

Current record  
Status field

Hold field

PXCache<RSSVWorkOrderLabor>

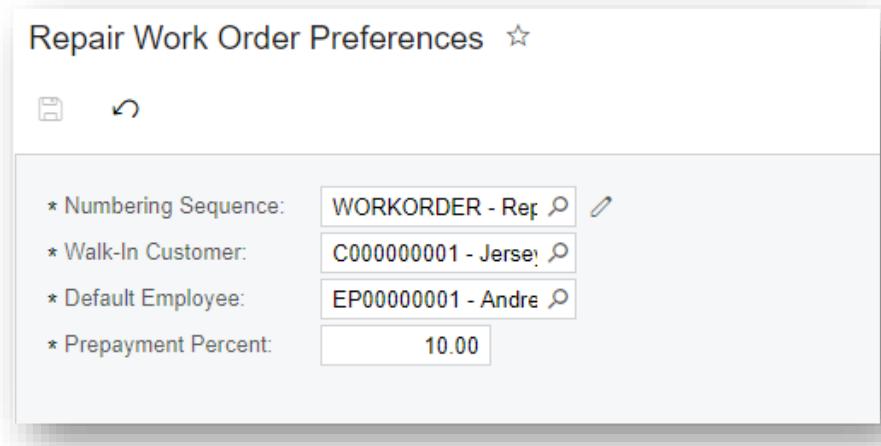
Current record  
Quantity field

## T220: The Repair Work Order Preferences Form

# The Repair Work Order Preferences Form

The form will contain the following:

- The **Numbering Sequence** box will hold the numbering sequence that is used to auto-number repair work orders.
- The **Walk-In Customer** box will contain the identifier of the customer record for walk-in orders.
- The **Default Employee** box will specify the default assignee for repair work orders.
- The **Prepayment Percent** box will contain the percent of prepayment that a customer should pay for a service that requires prepayment.



Repair Work Order Preferences ☆

\* Numbering Sequence: WORKORDER - Rep

\* Walk-In Customer: C00000001 - Jersey

\* Default Employee: EP00000001 - Andre

\* Prepayment Percent: 10.00

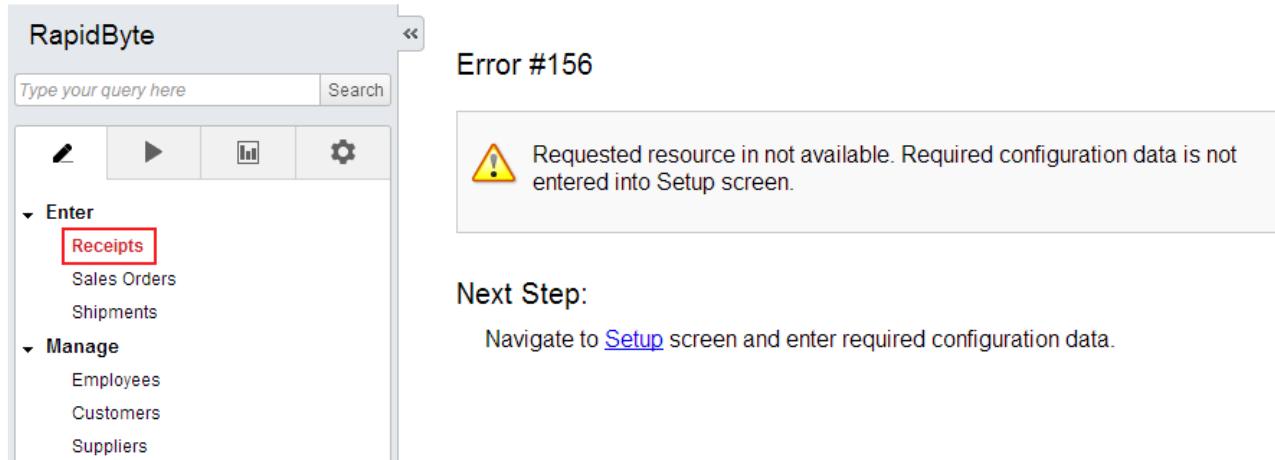
## Lesson 2.1: Configuring the Auto-Numbering of a Field Value

### Objectives:

- Create and use setup forms where users enter the configuration settings of the application
- Configure the auto-numbering of a field value

# PXSetup

Until a proper configuration entry is created user will see something like this on the dependent page:



# PXSetup

---

To prompt user to configure a module before entering any documents:

PXSetup is a special kind of PXSelect, which makes this task easy. To tell that a graph needs certain piece of configuration you:

1. Declare a setup view within the graph

```
public PXSetup<Setup> setup;
```

2. Ask it for the Current member on graph construction

```
public ReceiptEntry()  
{  
    Setup setup = setup.Current;  
}
```



This will throw a special exception upon failure to get a Setup record

# PXPrimaryGraph

---

Noticed the Setup link below the warning?

PXPrimaryGraphAttribute makes navigating to a record possible

The attribute is attached to a DAC and tells the system which graph should it use to display a record of this DAC:

```
[Serializable]
[PXPrimaryGraph(typeof(SetupMaint))]
public partial class Setup : PX.Data.IBqlTable
{
    ...
}
```

# PXPrimaryGraph

Works fine with any records – not only configuration ones

Can chose where to go based on the rules that you provide:

```
[PXPrimaryGraph(new Type[] {
    typeof(InvoiceEntry),
    typeof(PaymentEntry) },
    new Type[] {
        typeof(Select<Invoice,
            Where<Invoice.nbr, Equal<Current<Document.nbr>>>),
        typeof(Select<Payment,
            Where<Payment.nbr, Equal<Current<Document.nbr>>>) } )]
```

destination graph

destination graph

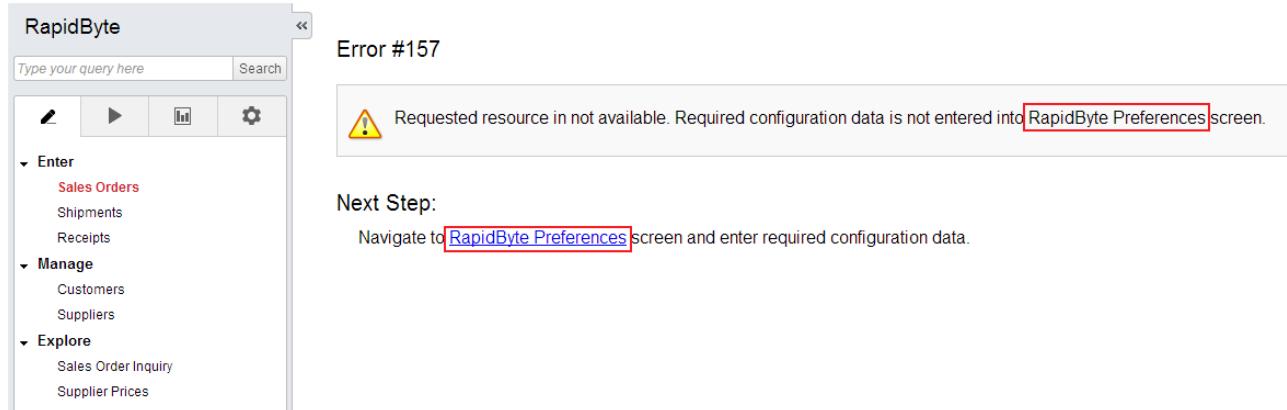
condition

condition

# PXCacheName

It is possible to set a user-friendly name for a DAC:

```
[System.SerializableAttribute()]  
[PXPrimaryGraph(typeof(SetupMaint))]  
[PXCacheName("RapidByte Preferences")]  
public partial class Setup : PX.Data.IBqlTable  
{  
    // ...  
}
```



# User Dialogs

# Requesting Confirmations

---

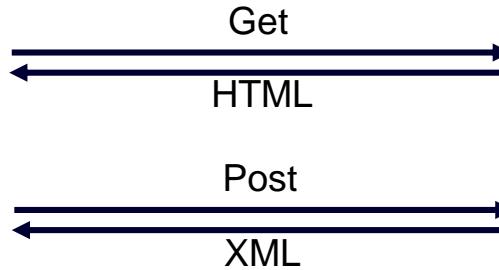
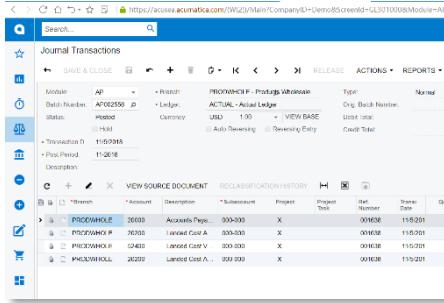
Throwing errors is a bit too one-sided way to communicate with users – what if we want to ask them something?

```
WebDialogResult res = this.PaymentMethod.Ask (
    "Confirmation",
    "Are you totally sure? Really?",
    MessageBoxButtons.YesNo);
if (res == WebDialogResult.Yes)
{
    //Do things if user says 'Yes'.
}
```

Also use the `e.ExternalCall` to check whether an event was initiated from UI (`true`) or from code (`false`)

# User Dialogs

Web application is mostly one-way communication – Request -> Response



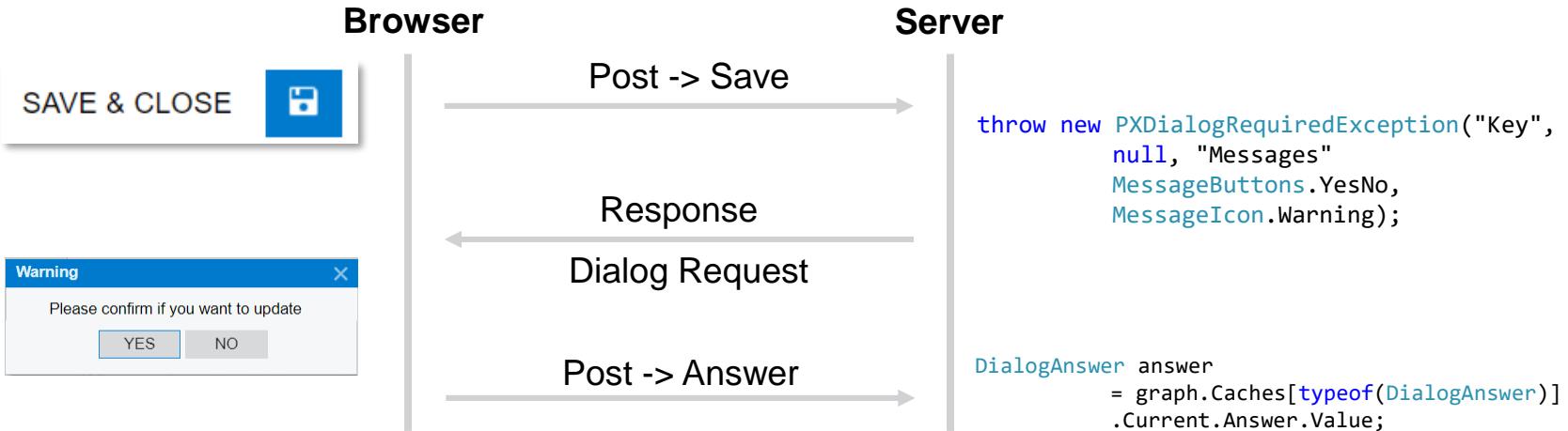
**Acumatica**  
THE CLOUD ERP

How to:

- Return control to user?
- Prevent operation modify data?

# User Dialogs

Exceptions that returns control to base code:



## Overriding Attributes on Graph Level

# Overriding Attributes

---

Sometimes you want to make special configuration of a field in the scope of some particular graph – use CacheAttached event pseudo-handler

```
[PXDBString(15, IsUnicode = true, IsKey = true)]
[PXSelector(typeof(Product.productCD),
            typeof(Product.productCD),
            typeof(Product.productName),
            typeof(Product.unitPrice),
            typeof(Product.stockUnit))]
[PXUIField(DisplayName = "Product ID")]
protected virtual void Product_ProductCD_CacheAttached(PXCache sender)
{
}
```

No implementation – only the attributes – but *all* of them

# Level of Attributes

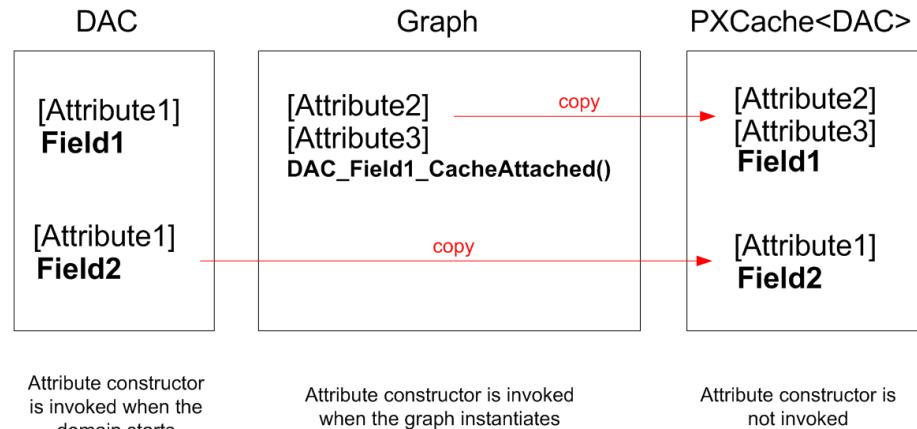
1) Type – on domain initialization

2) Cache – on cache initialization

```
PXUIFieldAttribute.SetEnabled<DAC>(cache, null, true);
```

3) Record – on record operation

```
PXUIFieldAttribute.SetEnabled<DAC>(cache, row, true);
```



# Summary

## Website

RS301000.aspx page  
(data entry)

Summary area (PXFormView)

Order Nbr. box

## Application

RSSVWorkOrderEntry graph

PXCache<RSSVWorkOrder>

Current record

RSSVWorkOrderEntry constructor

PXSetup<RSSVSetup> data view

RSSVWorkOrder DAC

OrderNbr field

AutoNumber attribute

RS101000.aspx page  
(setup)

Summary area (PXFormView)

Numbering Sequence  
box

RSSVSetupMaint graph

PXCache<RSSVSetup>

Current record

RSSVSetup DAC

PXPrimaryGraph  
attribute

PXCacheName  
attribute

NumberingID field

## Summary

# Join Development Community

## Acumatica Development Network (ADN)

- <http://adn.acumatica.com/>

## Stack Overflow Community:

- <http://stackoverflow.com/questions/tagged/acumatica>

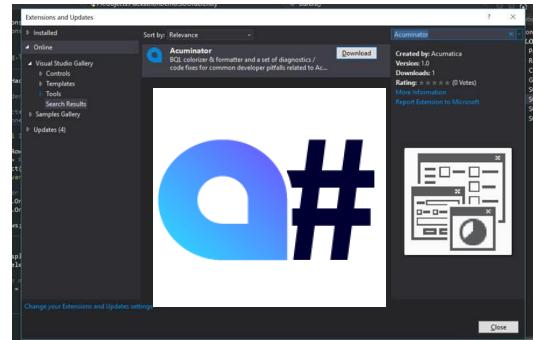
## Git Hub opensource Projects

- <https://github.com/Acumatica/>

## Visual Studio Extensions – Acuminator

## Tons of Blogs

- <http://asiablog.acumatica.com/>
- <http://blog.zaletskyy.com/Tags/Acumatica>
- <http://www.timrodman.com/tag/acumatica/>



 **Acumatica**  
 **Developer Network**

 **GitHub**

 **Blogger™**



# Thank You

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**Sergey Marenich**

<http://asiablog.acumatica.com>

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