

iConnect 133888 Design Approach

Project Overview

Conditionally set the contents of a drop down.

Features/Requirements

Users can set drop-down (combo) with items in design in admin tool so they can use it in App while filling the form. Currently, there is no way to set/update items in combo conditionally /dynamically. We need to create new rule nodes so we can get/set items in combo dynamically.

Use Cases / Workflow Changes

There is no change to the normal workflow of the system. We need to create new rule nodes so users can get/set items dynamically in combo via rule.

Shared Changes

We need to create two new rule node – “getcomboitems” and “setcomboitems”. “getcomboitems” will return list of items for the specified data-item. “setcomboitems” will append/replace specified items for the specified data-item. This task contains most of changes in one or more shared projects.

- We need to add a new property in DataItem class so we can evaluate whether combo items changed or not.
- Need to create new rule node “getcomboitems” to get items from combo.
- Need to create new rule node “setcomboitems” to set items to combo.
- Modify various methods in some important rule classes like BaseServerTriggerHandler, ServerTriggerHandler so we can bubble item change event to App.
- In App, we need to modify RefreshValidation method in _Form.js to add new handler method to handle changes in items of combo.
- The new handler method will get new list and update specified combo with new list.

Admin Changes

There are no specific changes in Admin except we need to add intellisense for new “getcomboitems” and “setcomboitems” nodes.

App Changes

In App, we need to –

- Modify RefreshValidation method in _Form.js so it can handle new event for setting combo items.
- New method need to be added in EditApplicationController which will return new updated item list for the specified combo.
- We need to modify “InitTriggerHandler” method in EditApplicationModel as it contains code which is setting data item’s value to empty if combo’s value is not within its item list. This code executes before any rule runs so if rule is appending new list and related data item’s value is in new list, it must set value.

Integration Changes

There is no change in integration process

UI Mock Ups

There is no change in UI in admin/app.

How to Enable and Use This Feature

Here is how to use this rule node.

getcomboitems – This node will return new list of items for the specified data-item. Usage is:

```
<getcomboitems dataitemid=”combo1” />
```

The above node returns list of items for the data-item combo1.

setcomboitems – This node will set the items of the specified data-item.

Option: User can use two options while setting items

- a. append – It will append specified items to the current list.
- b. replace – It will clear existing list before adding new items.

SourceType: User can set items in combo by two ways. Either he/she can specify bunch of values using “const” or he/she can specify list.

- a. values – one or more “const” is used to set items in combo.
- b. list – list is used to set items in combo.

Usage:**Example 1**

```
<setcomboitems dataitemid="combo1" option="append" sourcetype="values" >  
    <const value="ONE" />  
    <const value="TWO" />  
    <const value="THREE" />  
</setcomboitems/>
```

The above code append ONE,TWO and THREE to the current item list for data-item combo1. As we have used bunch of values to fill combo, we have used "values" in "sourcetype" attribute.

Example 2

```
<setcomboitems dataitemid="combo1" option="replace" sourcetype="list" >  
<get name="somelist" />  
</setcomboitems/>
```

The above example replaces current items by new list of items. This example is filling new items from list "somelist" hence we have used "list" in "sourcetype" attribute.

Remarks

*Please note that setcomboitems will also support TEXT|VALUE combination so user can also specify like
<const value="ONE|1" />.*

If there are more than one same dataitemid in form collection in App, the code will pick first one and run rule on it.

Areas Impacted

System Area	Yes	Comment
Admin Tool		
- Form Library		
- Design Forms	Yes	There is not direct change in Design. New rule nodes will need to be added to the system to get/set items in combo. Most of the changes will be implemented in Shared projects.
- Profile Administration		
- Reports		
- Deployment		
FireLight App		
- New Application		
- Edit Application	Yes	We need to handle items change event for the specified combo and update it with new list without refreshing whole page.
- Signature Process		
- Review Queue		
- Manual Review		
- User Preferences		
- Inbound Integration		
- Outbound Integration		
- PDF Generation		
- Email System		
FireLight Console		
- Windows		
- iOS		

Other Systems		
- DTCC Integration		
- Commission Netting		
- Activity Reporting		