Guide: Event Handler for Dropdown Selection in D365 FinOps Forms Using X++

This guide provides step-by-step instructions on setting up event handlers for dropdown selection in D365 FinOps forms using X++. The objective is to enable the sub-department dropdown to display values based on the selection made in the department dropdown.

Step 1: Create Event Handler for Department

First, create an event handler for the Department field by copying the <code>OnModified</code> method from the specific form's field and pasting it into a class. Then, paste the following code under the event handler method:

Code:

```
[FormControlEventHandler(formControlStr(DIN ItemPurchaseForm,
DIN_ItemInventoryTable_NTI_ItemDepartment), FormControlEventType::Lookup)]
public static void DIN ItemInventoryTable NTI ItemDepartment OnLookup(FormControl sender,
FormControlEventArgs e)
{
  Query
                 query;
  QueryBuildDataSource qbds;
  SysTableLookup
                     sysTableLookup;
 // Initialize the SysTableLookup object
  sysTableLookup = SysTableLookup::newParameters(tableNum(Departments), sender);
 // Create a new query
  query = new Query();
  gbds = guery.addDataSource(tableNum(Departments));
  // (Optional) Add ranges to filter the data if needed
  // qbds.addRange(fieldNum(Department, FieldName)).value(queryValue("SomeValue"));
```

```
// Set the fields to be displayed in the lookup
sysTableLookup.addLookupfield(fieldNum(Departments, Dep_Code));
sysTableLookup.addLookupfield(fieldNum(Departments, Dep_Name));

// Perform the lookup
sysTableLookup.parmQuery(query);
sysTableLookup.performFormLookup();
}
```

Step 2: Modify Method for Department Field

Next, create a modified method under the department form's field:

```
[Control("String")]
class DIN_ItemInventoryTable_NTI_ItemDepartment
{
    /// <summary>
    /// Method triggered when the Department field is modified
    /// </summary>
    /// <returns></returns>
    public boolean modified()
    {
        boolean ret;
        ret = super();
        //super();
        //super
```

```
// Refresh the sub-department field lookup
  // Ensure the sub-department field is re-initialized
  DIN_ItemInventoryTable.NTI_ItemSubDepartment = "";
  DIN_ItemInventoryTable_ds.refreshEx(FieldNum(DIN_ItemInventoryTable,
  NTI_ItemSubDepartment));
  return ret;
}
```

Step 3: Create Event Handler for Sub-Department

Create an event handler for the Sub-Department field by following the same method as for the department. Then, create a class and paste the following code under that event handler:

FormDataSource

```
Code:
[FormControlEventHandler(formControlStr(DIN_ItemPurchaseForm,
DIN_ItemInventoryTable_NTI_ItemSubDepartment), FormControlEventType::Lookup)]
public static void DIN_ItemInventoryTable_NTI_ItemSubDepartment_OnLookup(FormControl
sender, FormControlEventArgs e)
{
  Query
                 query;
  QueryBuildDataSource qbds;
  SysTableLookup
                      sysTableLookup;
  FormRun
                   formRun;
```

formDataSource;

DIN_ItemInventoryTable dinItemInventoryTable;

```
formRun = sender.formRun();
  formDataSource = formRun.dataSource(tableStr(DIN_ItemInventoryTable));
  dinItemInventoryTable = formDataSource.cursor();
  // Initialize the SysTableLookup object
  sysTableLookup = SysTableLookup::newParameters(tableNum(SubDepartment), sender);
  // Create a new query
  query = new Query();
  qbds = query.addDataSource(tableNum(SubDepartment));
  // Add range based on selected department
  qbds.addRange(fieldNum(SubDepartment,
Dept)).value(queryValue(dinItemInventoryTable.NTI_ItemDepartment));
  // Set the fields to be displayed in the lookup
  // sysTableLookup.addLookupfield(fieldNum(SubDepartment, Dept));
  sysTableLookup.addLookupfield(fieldNum(SubDepartment, SubDept));
  // Perform the lookup
  sysTableLookup.parmQuery(query);
  sysTableLookup.performFormLookup();
```

}

Follow these steps to ensure that the sub-department dropdown displays values associated with the selected department in the D365 FinOps forms using X++.