# AL Programming – Reconcile Module

## Introduction

This document describes how to setup a Local Dynamics NAV installation together with Visual Studio Code to start with the Development of Extensions. This document describes the development of a new Dynamics NAV module called “Reconcile Module”

# Preparation

## Create Object Folders

|  |  |
| --- | --- |
|  | Before we start creating AL files where are going to make specific folders for every type of Object we need for this extension. For this extension we can create the following folders: **Codeunit**, **Page** and **Table** |

# Extending the Tables (with Fields and without Properties)

In this Chapter we first are going to extend our tables with the Fields we need and in this step we don’t apply any properties. For example: Some fields will be FlowFields looking to other Tables/Fields and these we can setup after we have added these to the extension.

## LAB001 – Extending the Table 15 – G/L Account

In this LAB where are going to extend Table 15 – G/L Account with the fields we need. We are going to add the following fields.

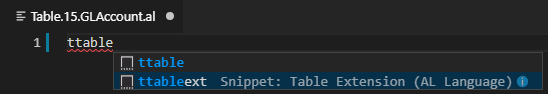
|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | DataType |  |
| 50200 | Reconcile Allowed | Boolean |  |
| 50201 | Last Reconcile-ID | Code[20] |  |
| 50202 | Reconcile Balance | Decimal | FlowField |
|  | *FlowField of Sum to Table 17 - G/L Entry and Field: Amount where G/L Account No. = No. and Reconcile-ID = Last Reconcile-ID* | | |
| 50203 | Last Doc. Reconcile-ID | Code[20] |  |
| 50204 | Doc. Reconcile Balance | Decimal | FlowField |
|  | *FlowField of Sum to Table 17 - G/L Entry and Field: Amount where G/L Account No. = No. and Reconcile-ID = Doc. Reconcile Filter* | | |
| 50205 | Doc. Reconcile Filter | Code[20] | FlowFilter |
|  |  |  |  |

### Add fields to Table 15 - GLAccount

In this step we are going to create the AL file for extending Table 15 – G/L Account

* Create a new file called **Table.15.GLAccount.al** (!! Add extension .al) in the folder: **Table**
* The system will create a new empty file
* We want to extend a existing table so we can start typing the following command

ttableext



VSCode will now add a Table Exension Snippet wich we can use start making our extension

tableextension id MyExtension extends MyTargetTable

{

fields

{

// Add changes to table fields here

}

var

myInt : Integer;

}

We want to extend Table 15 - G/L Account so change the line below to

tableextension id MyExtension extends MyTargetTable

to

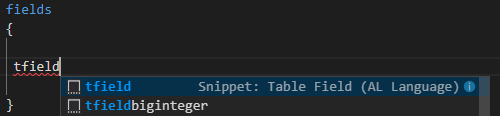
tableextension 50200 T15\_GLAccount\_Extension extends "G/L Account"

id 50200 The unique ID for this table extension

MyExtension T15\_GLAccount\_Extension Name for our this table extension

Extends “G/L Account” The the that is going to be extended

* Now we can start by adding the Fields we need
* Add a new field by adding the snippet: tfield



This command will add the snippet for a new field:

field(id;MyField;Type)

{

FieldPropertyName = FieldPropertyValue;

DataClassification = ToBeClassified;

}

For this LAB remove the lines with FieldProperyName and DataClassification

* Now we can adjust the snippet and and our first Field 50200 – Reconcile Allowd (Boolean)

*Notice: For now we don’t add any Properties to the Fields. This will be done later.*

fields

{

field(50200;"Reconcile Allowed";Boolean)

{

}

* Now also add the other fields from the table Above

tableextension 50200 T15\_GLAccount\_Extension extends "G/L Account"

{

fields

{

field(50200;"Reconcile Allowed";Boolean)

{

}

field(50201;"Last Reconcile-ID";Code[20])

{

}

field(50202;"Reconcile Balance";Decimal)

{

}

field(50203;"Last Doc. Reconcile-ID";Code[20])

{

}

field(50204;"Doc. Reconcile Balance";Decimal)

{

}

field(50205;"Doc. Reconcile Filter";Code[20])

{

}

}

var

myInt : Integer;

}

### Add fields to Table 17 – G/L Entry

In this step we can add the fields for Table 17 – G/L Entry

We are going to add the following Fields:

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Name | DataType |  |
| 50200 | Reconciled | Boolean |  |
| 50201 | Reconcile-ID | Code[20] |  |

* Create a new file called **Table.17.GLEntry.al** (!! Add extension .al) in the folder: **Table**
* The system will create a new empty file
* Add the snippet for extending an existing table: ttableext
* Add the fields using the snippet: tfield