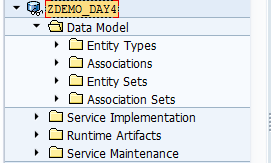
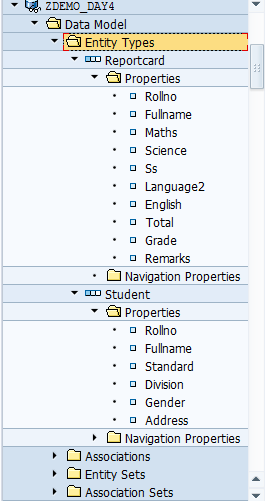
**Service 1: Deep Insert**

Steps:

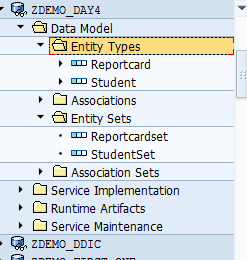
1. Create one project in segw : zdemo\_day4



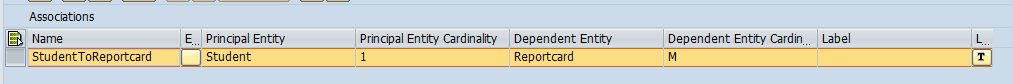
1. Import two structures to create entity types: Student and Reportcard



1. Create entity sets: Studentset and Reportcardset



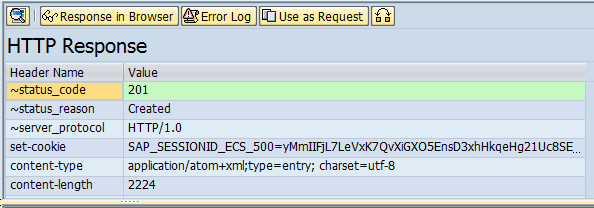
1. Create Association from Student entity to Reportcard entity.



1. Generate runtime classes
2. Go to Implementation of class -ZCL\_ZDEMO\_DAY4\_DPC\_EXT
3. Redefine method : CREATE\_DEEP\_ENTITY under the folder /IWBEP/IF\_MGW\_APPL\_SRV\_RUNTIME
4. Copy and paste the below code



1. Save and Activate
2. Go to transaction : /iwfnd/maint\_service
3. Pass request payload ( The response for get\_expanded\_entityset), request URL
4. HTTP Method – POST, execute
5. 201 Created means successful creation



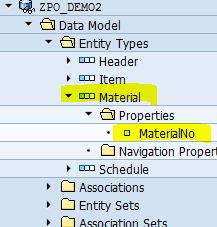
**Service 2: Function Import**

<https://help.sap.com/saphelp_nw74/helpdata/en/c5/dc22512c312314e10000000a44176d/content.htm>

We will consider material validation example here.

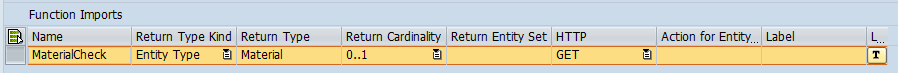
Create a project in SEGW

Create an entity type name material with the following properties

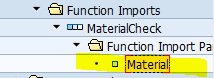


We only need one property i.e. material number here as we will send back only material number if it is valid.

Right click on function imports->Create -> Enter the following properties



Create an import parameter for the function import:



Redefine the below method:

/IWBEP/IF\_MGW\_APPL\_SRV\_RUNTIME~EXECUTE\_ACTION

And paste the below code

IF iv\_action\_name = 'MaterialCheck'.  
  
    DATA : ls\_parameter  TYPE /iwbep/s\_mgw\_name\_value\_pair,  
           lv\_matnr TYPE matnr,  
           ls\_entity TYPE zcl\_zpo\_demo2\_mpc\_ext=>ts\_material,  
         lv\_material TYPE matnr,  
         ls\_header TYPE ihttpnvp.  
  
    READ TABLE it\_parameter INTO ls\_parameter WITH KEY name = 'Material'.  
  
    IF sy-subrc = 0.  
  
      lv\_matnr = ls\_parameter-value.  
  
      CALL FUNCTION 'CONVERSION\_EXIT\_ALPHA\_INPUT'  
        EXPORTING  
          input  = lv\_matnr  
        IMPORTING  
          output = lv\_matnr.  
  
      SELECT SINGLE matnr  
                    FROM mara  
                    INTO lv\_material  
                    WHERE matnr = lv\_matnr.  
  
      IF sy-subrc = 0.  
        ls\_entity-materialno = lv\_material.  
  
        copy\_data\_to\_ref(  
          EXPORTING  
            is\_data = ls\_entity  
          CHANGING  
            cr\_data = er\_data  
        ).  
      ELSE.  
\* This piece of code is to pass messages in header  
        ls\_header-name = 'Status'.  
        ls\_header-value = 'E'.  
        set\_header( is\_header = ls\_header ).  
  
        ls\_header-name = 'Message'.  
        ls\_header-value = 'Material not found'.  
        set\_header( is\_header = ls\_header ).  
      ENDIF.  
    ENDIF.  
  
  ENDIF.

Test from GW client with the URI:

**URI:**

/sap/opu/odata/sap/ZPO\_DEMO2\_SRV/MaterialCheck?Material='986'

**URI:**

/sap/opu/odata/sap/ZPO\_DEMO2\_SRV/MaterialCheck?Material='654654'

Enter wrong Material number:

