

Upload/download File in SAP UI5 Application using Gateway

Movember 14, 2018 (http://www.sapspot.com/upload-download-file-in-sap-ui5-application-using-gateway/) & webadmin (http://www.sapspot.com/author/webadmin/)

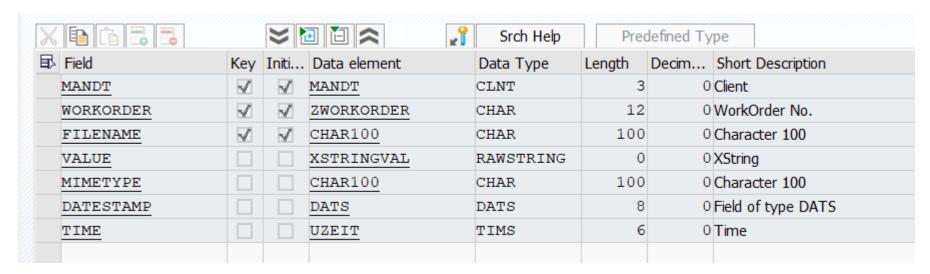
Please find below step by step how you can upload and download file.

Please note that i am implementing this on Central Hub Gateway Deployment so will be explaining this in two sections

Section I: Back End

Step-1: Create Table

First I created a table on back-end system that will contain the uploaded files.you can add many fields you want but your table must contain Filename, Value and mimetype.



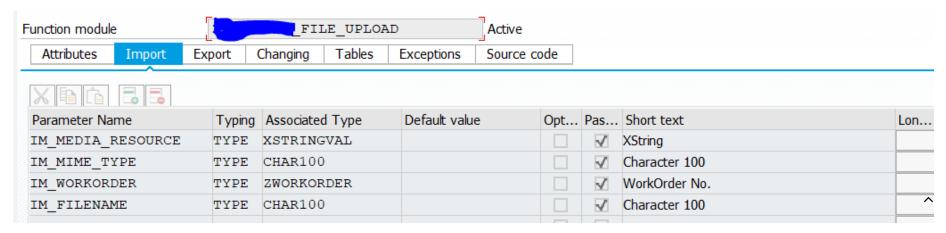
after creating table we developed three Function Modules.

Step-2: Function Modules

Please note all functions are RFC Enabled.

1. Upload

In this function you will import following parameters and store values in table.



DATA: TEMP_WO LIKE ZBM_WORKORDERAPP-WORKORDER.

DATA: WA UPLOAD TYPE ZBM FILEUPLOAD.

- * SELECT SINGLE WORKORDER INTO TEMP_WO FROM ZBM_WORKORDERAPP
- * WHERE WORKORDER EQ IM_WORKORDER.

*

* CHECK TEMP_WO IS NOT INITIAL.

WA UPLOAD-MANDT = SY-MANDT.

WA_UPLOAD-WORKORDER = IM_WORKORDER.

WA_UPLOAD-FILENAME = IM_FILENAME.

WA_UPLOAD-VALUE = IM_MEDIA_RESOURCE.

WA_UPLOAD-MIMETYPE = IM_MIME_TYPE.

WA UPLOAD-DATESTAMP = SY-DATUM.

WA_UPLOAD-TIME = SY-UZEIT.

INSERT INTO ZBM_FILEUPLOAD VALUES WA_UPLOAD.

IF SY-SUBRC <> 0.

RAISE DATA_NOT_INSERTED.

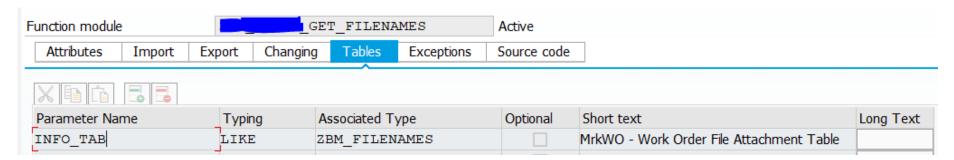
ENDIF.

ENDFUNCTION.

please note this function module is for Create Odata service implementation

2. Get List of files

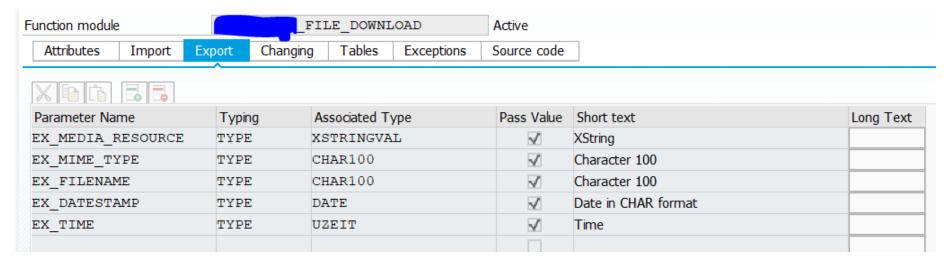
In my case user can add multiple files for specific workorder. To implement this functionality i created function module which returns table with file name and file type.



please note this function module is for GetEntitySet Odata service implementation

3. Download

In this function i pass two parameters and get related file.

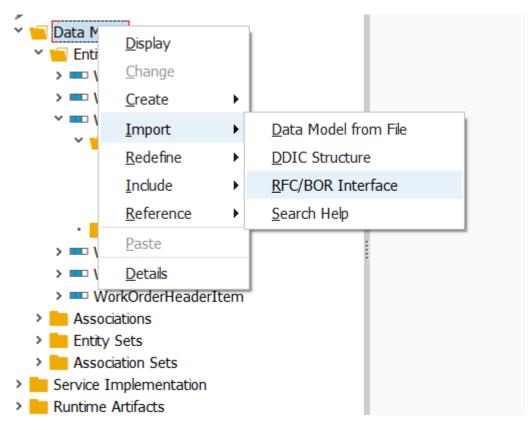


please note this function module is for GetEntity Odata service implementation

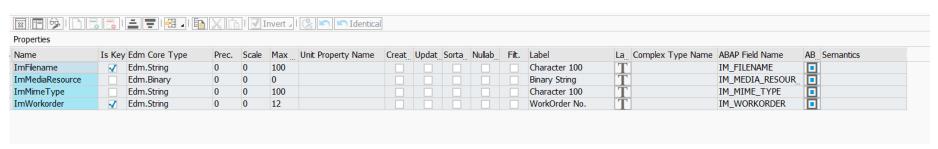
Section II: Front-End SAP Gateway

Step-1: Service Creation

I have created a project in SEGW and an entity type based upload function

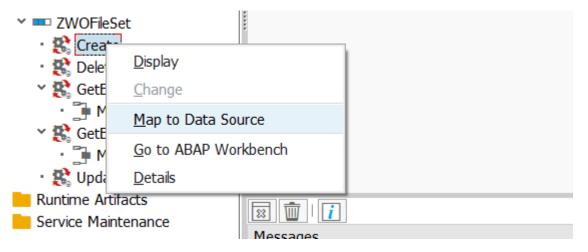


following properties were created.

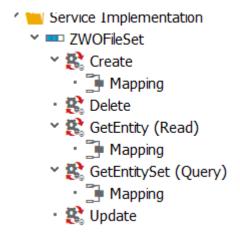


Step-2: Service Implementation

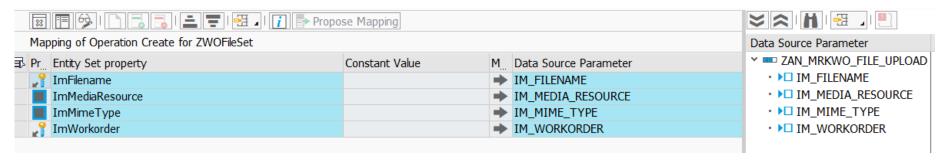
we will use mapping

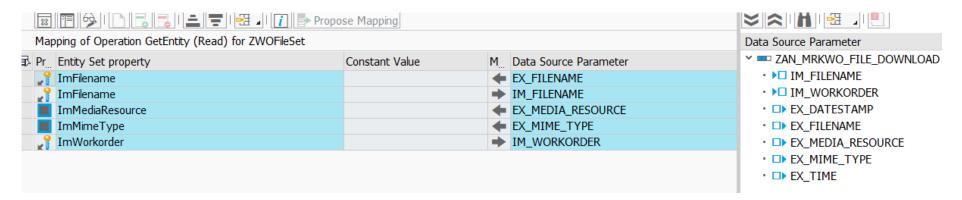


we have implement following services

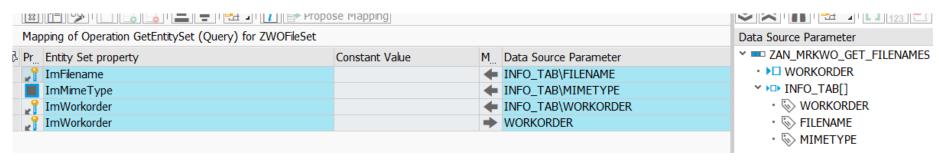


For Create we used upload function,



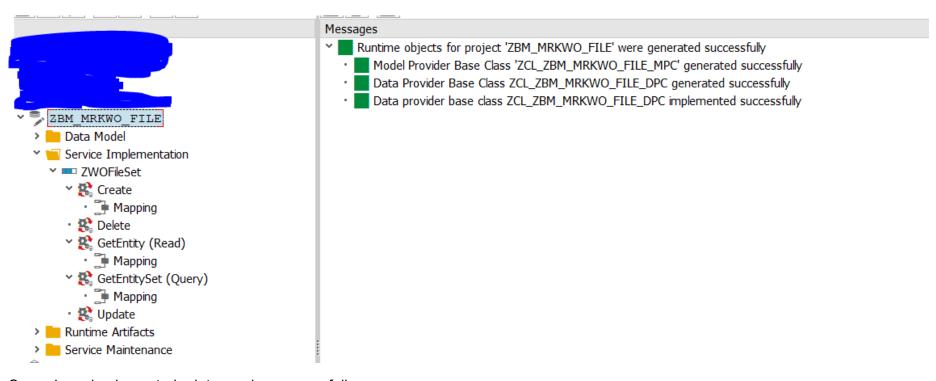


and for Get Entity Set we used Get file names function



thats it!

lets generate.



So we have implemented odata service successfully.

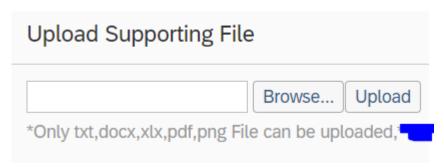
Section III: WebIDE

In this section we will see we can use above service in UI5 application

In this 1st we will upload the file to back end system, and the we will download file using UI5 application.

Step-1: Upload file using file uploader.

I will be using file uploader component.



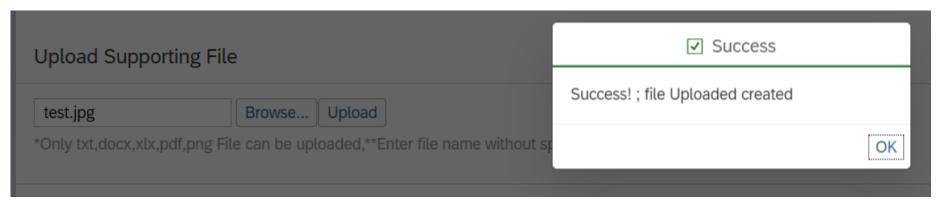
```
postFileToBackend: function (workorderId, fileName, fileType, Content) {
   var itemString = "/ZWOFileSet/";
   var serviceURI = "/
   var oDataModel = new sap.ui.model.odata.v2.ODataModel(serviceURI);
   var payload = {
        "ImWorkorder": workorderId,
        "ImFilename": fileName,
        "ImMediaResource": btoa(Content),
        "ImMimeType": fileType
   };
   oDataModel.create(itemString, payload, {
       success: function () {
           sap.m.MessageBox.success("Success!; file Uploaded created");
   }, {
       error: function (oError) { >>>}
   });
```

we have used JavaScript function btoa for encoding the file content

question arise from where filename, filetype and content come from below is the code how get details from uploader.

```
onUpload: function (oEvent) {
  var oFileUpload = this.getView().byId("fileUploader");
  var domRef = oFileUpload.getFocusDomRef();
  var file = domRef.files[0];
  var that = this;
  this.fileName = file.name;
  this.fileType = file.type;
  var reader = new FileReader();
  reader.onload = function (e) {var vContent = e.currentTarget.result.replace("data:" + file.type + ";base64,", "");
  that.postFileToBackend(workorderId, that.fileName, that.fileType, vContent);
```

```
};
reader.readAsDataURL(file);
}
once the file uploaded you will get success message
```



Step-2: Download file

I didn't use upload collection. Instead of that i have just list down the file related to workorder using list object.

and by using get entity set we will get following view.



Supporting Files

create_stream.txt

sbo42sp3_bip_admin_en.pdf

test.jpg

workflowtext.html

Now i have implemented download function on click of row.

```
downloadFile: function (oEvent) {
   //This code was generated by the layout editor.
   var workorder = oEvent.getSource().getBindingContext().getProperty("Workorder");
   var filename = oEvent.getSource().getBindingContext().getProperty("Filename");
// sap.m.MessageBox.success(workorder + "with " + filename);
   var itemString = "/ZWOFileSet(ImFilename='" + filename + "',ImWorkorder='" + workorder + "')";
   var serviceURI = "/
   var oModelFile = new sap.ui.model.odata.v2.ODataModel(serviceURI);
   oModelFile.read(itemString, {
        success: function (odata, response) {
           var fName = odata.ImFilename;
           var fType=odata.ImMimeType;
           var fMres=atob(atob(odata.ImMediaResource));
        // sap.m.MessageBox.success("Success!; file received with Name:"+fName+"with type:"+fType+" with
           if (fType === "text/plain") {
               sap.ui.core.util.File.save(fMres, fName.replace(".txt", ""), "txt", fType, "utf-8", true);
            } else {
               var byteNumbers = new Array(fMres.length);
               for (var i = 0; i < fMres.length; i++) {</pre>
                   byteNumbers[i] = fMres.charCodeAt(i);
               var byteArray = new Uint8Array(byteNumbers);
               var blob = new Blob([byteArray], {
                   type: fType
               });
               var url = URL.createObjectURL(blob);
               window.open(url, '_blank');
       error: function (oError) { >>>}
   });
```

I have tried to use sap.ui.core.util.File.save() function but only getting blank or corrupt file.only text file was working fine.

To achieve the goal i have used native JavaScript functionality by creating blob from the file "Value" and open the blob by using url.
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