



Jenish Prabhu

April 27, 2015 | 14 minute read

File upload using SAPUI5 Control

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Below is the approach that I tried and successfully able to upload File to the Gateway Service.

Step1: Extend FileUploader ([sap.ui.unified.FileUploader](#))

Overwrite the Upload method by AJAX call passing X-CSRF-Token

```
jQuery.sap.declare("com.ODataFileUploader.Component");
```

```
jQuery.sap.require("sap.ui.unified.FileUploader");
```

```
sap.ui.unified.FileUploader.extend("com.ODataFileUploader.Component", {

metadata : {

    properties : {

        "modelName" : "string",

        "slug" : "string",

        "csrf" : "string"

    }

    },

upload : function() {

    var file = jQuery.sap.domById(this.getId() + "-fu").files[0];

    try {

        if (file) {

            this._bUploading = true;

            var that = this;

            var _handleSuccess = function(data, textStatus, jqXHR){

                that.fireUploadComplete({"response": "Success: File uploaded to entity" });

            }

        }

    }

}
```

```
        that._bUploading = false;

    };

    var _handleError = function(data){

    var errorMsg = "";

    if (data.responseText[1]){

        errorMsg = /<message>(.*?)<\message>/.exec(data.responseText)[1];

    }else{

        errorMsg = 'Something bad happened';

    }

    that.fireUploadComplete({"response": "Error: " + errorMsg});

    that._bUploading = false;

};

var oHeaders = {

    "x-csrf-token": this.mProperties.csrf,

    "slug": this.mProperties.slug,

    "X-Requested-With": "XMLHttpRequest",
```

“Content-Type”: file.type,

“DataServiceVersion”: “2.0”,

“Accept” : “text/plain, */*”

};

jQuery.ajax({

type: ‘POST’,

url: this.getUploadUrl(),

headers: oHeaders,

cache: false,

contentType: file.type,

dataType: “text”,

processData: false,

data: file,

success: _handleSuccess,

error: _handleError

});

```

        jQuery.sap.log.info("File uploading to " + this.getUploadUrl());

    }

} catch(oException) {

    jQuery.sap.log.error("File upload failed:\n" + oException.message);

}

},

renderer : {

        }

});

```

Step2: Fetch X-CSRF-Token

```
var url1 = getUrl("/sap/opu/odata/sap/ZGW_FILES_APP_SRV");
```

```
var csrfToken = "";
```

```
var aData = jQuery.ajax({
```

```
url : url1,
```

```
headers: { "X-CSRF-Token":"Fetch" ,
```

```
        "X-Requested-With": "XMLHttpRequest",
```

```
        "DataServiceVersion": "2.0" },

    type: "GET",

    contentType : "application/json",

    dataType : 'json',

    success : function(data, textStatus, jqXHR) {

        csrfToken = jqXHR.getResponseHeader('x-csrf-token');

        oFileUploader1.setCsrftoken(csrfToken);

        oFileUploader1.setSlug("200000664_MOB15");

        oFileUploader1.setUploadUrl(getUrl("/sap/opu/odata/sap/ZGW_FILES_APP_SRV/FileSet"));

        oFileUploader1.upload();

    },

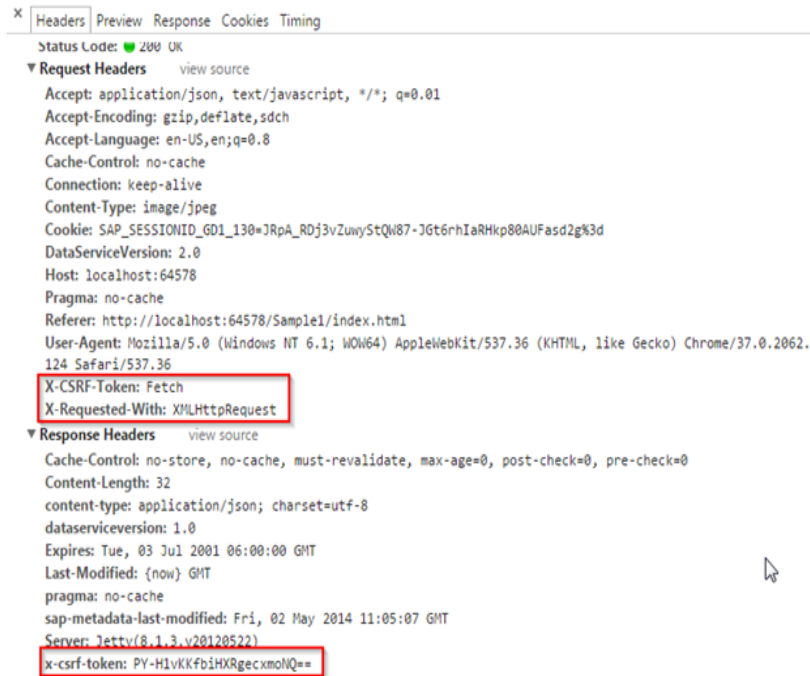
    error: function(XMLHttpRequest, textStatus, errorThrown) {

    }

    });

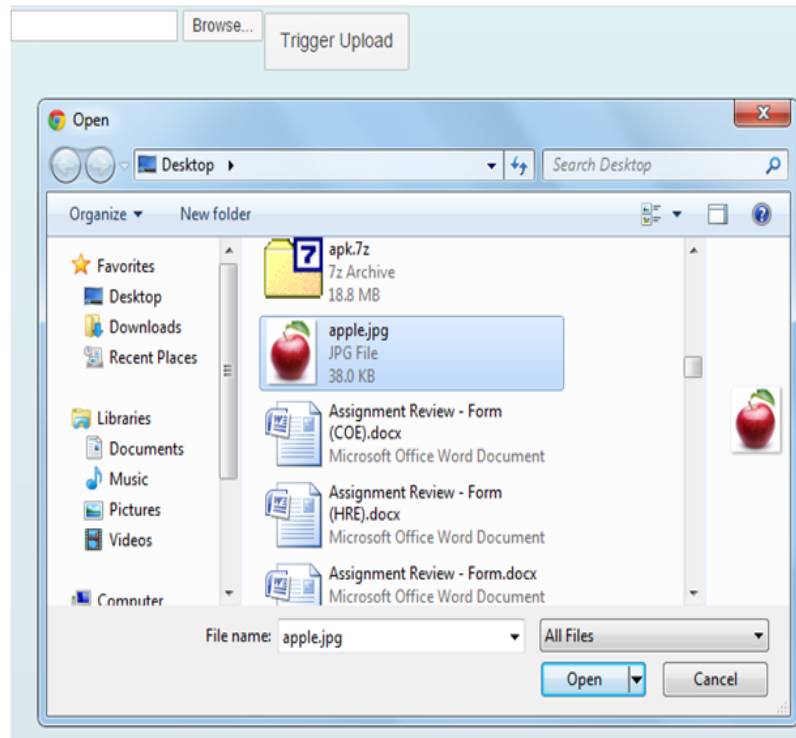
}
```

Step3: Call File Upload Service by passing already Fetched X-CSRF-Token along with any inputs in the HTTP Headers

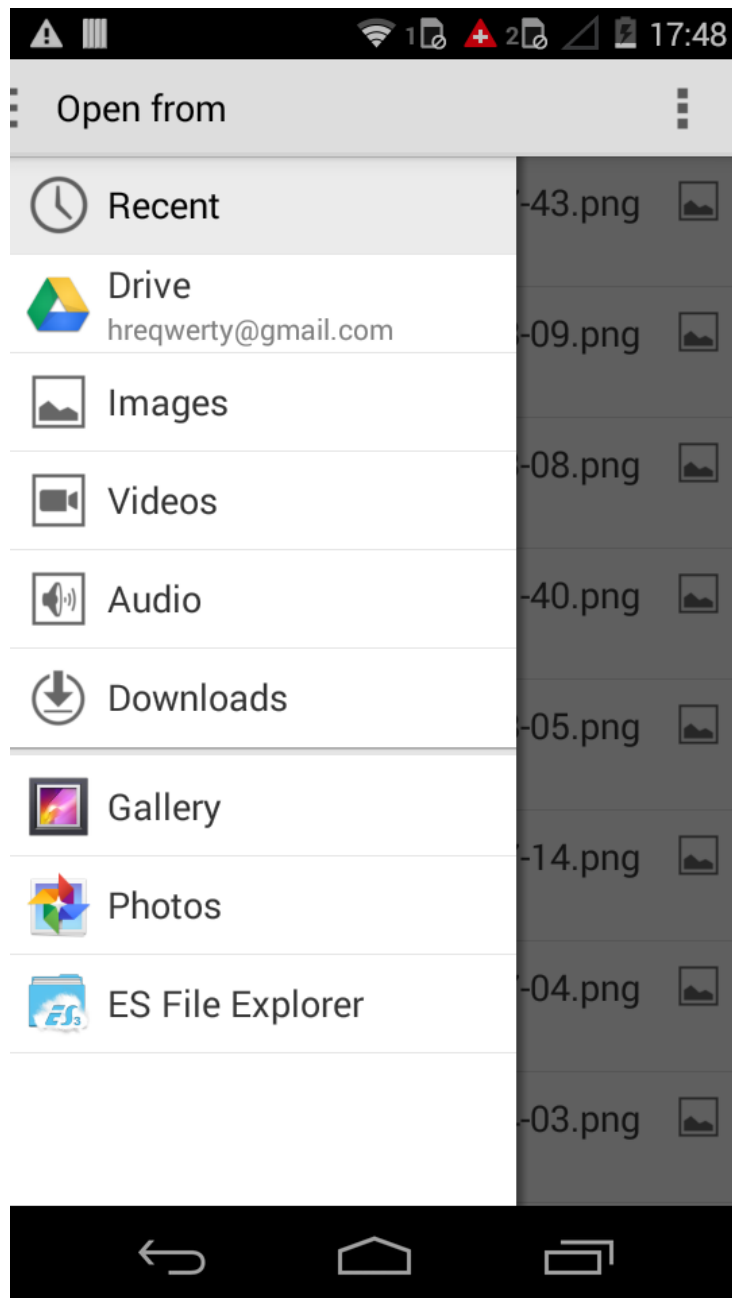


Step4: Upload the Actual file on Screen

From Desktop:



From Mobile:



Step5: Trigger Upload Action

```

var btnSubmit = new sap.m.Button({
    text: 'Trigger Upload',
    press: function() {

var url1 = getUrl("/sap/opu/odata/sap/ZGW_FILES_APP_SRV");

var csrfToken = "";

var aData = jQuery.ajax({
    url : url1,

    headers: { "X-CSRF-Token": "Fetch" ,
        "X-Requested-With": "XMLHttpRequest",
        "Content-Type": "image/jpeg",
        "DataServiceVersion": "2.0" },

    type: "GET",

    //jsonpCallback : 'getJSON',

    contentType : "application/json",

    dataType : 'json',

    //data : "",

    success : function(data, textStatus, jqXHR) {
        csrfToken = jqXHR.getResponseHeader('x-csrf-token');

        oFileUploader1.setCsrftoken(csrfToken);
    }
});

```

```
oFileUploader1.setSlug("2000006");
```

```
oFileUploader1.setUploadUrl(getUrl("/sap/opu/odata/sap/ZGW_FILES_APP_SRV/FileSet"));
```

```
oFileUploader1.upload();
```

```
},
```

```
error: function(XMLHttpRequest, textStatus, errorThrown) {
```

```
}
```

```
});
```

```
}
```

```
});
```

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fileuploader

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Former Member

May 12, 2015 at 11:32 am

Hi Jenish, it is a very helpful blog. I am working on file uploader functionality. I have created gateway service which upload files through GOS. Now in UI5 I am getting csrf token thru ajax call. I am stuck with file uploader extend, this extension must be done where?? can you please guide me with this.

Best regards,

Siva

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Jenish Prabhu | Blog Post Author

May 22, 2015 at 5:45 pm

Hi Sivadurga,

You can have that declared in separate FileUploader.js file and refer it.

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Former Member

June 2, 2015 at 9:14 am

Jenish, thanks for your reply, I have extended this API in index.html under <script> tag. Its working fine, i am able to upload files from FIORI App to SAP.

Best regards,

Siva

Like 0 | Share



Jenish Prabhu | Blog Post Author

June 8, 2015 at 8:09 am

Wonderful ☐

Like 0 | Share



Sagar Patil

July 27, 2015 at 1:23 pm

Hi Jenish,

Thanks for your post. It helped me to upload the file to gateway server successfully.

You have used the sap.ui.unified.FileUploader to upload the files.

It would be of great help if you let me know the end to end process of how file upload can be achieved using sap.m.UploadCollection.i.e. from SAPUI5 application to abap server using gateway services.

In sap.m.UploadCollection we have option to upload multiple files. I want to know, how it is handled in gateway services.

Thanks and Regards,

Sagar M Patil

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Prabhat Singh Pathania

November 6, 2015 at 6:50 am

Hi.

Do you have any useful links for the same?

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Faiza Anjum

September 15, 2016 at 6:19 am

Hello Prabhat,

I have a similar requirement. I need to upload multiple attachments which can be of different types. I want to do this via UploadCollection and finally send the group of attachments to abap server as a gateway service.

Were you able to achieve this.

Any help in this regard is appreciated

Kind Regards,

Faiza.

Like 0 | Share



Prabhat Singh Pathania

September 15, 2016 at 7:20 am

Hi Faiza,

Yes I was able to do file upload using Upload Collection.

I didn't use 'pending' feature though.

I checked your profile, if you have sap ID, then we can discuss over skype call.

Else I will try to explain things here.

Regards,
Prabhat.Singh.Pathania
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Faiza Anjum

September 15, 2016 at 6:19 am

Hello Sagar,

I have a similar requirement. I need to upload multiple attachments which can be of different types. I want to do this via UploadCollection and finally send the group of attachments to abap server as a gateway service.

Were you able to achieve this.

Any help in this regard is appreciated

Kind Regards,

Faiza.

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Akhilesh Upadhyay

September 16, 2016 at 1:23 pm

Hello Faiza,

I have implemented it as below, i am not sure but might work for you, also i have attach a link below that might help you to understand the backend part as well.

//In XML :

```
<UploadCollection change="onAttachmentChange"
```

```
fileDeleted="onAttachmentDeleted" fileRenamed="onAttachmentRenamed"
```


fileSizeExceed="onAttachmentSizeExceeded"

fileType="{detailView>/allowedFileExtension}"

id="idAttachments" maximumFilenameLength="255"

multiple="false" noDataText="No attachment found"

showSeparators="All" typeMismatch="onAttachmentTypeMismatched"

uploadComplete="onAttachmentUploadComplete"

uploadEnabled="true" uploadUrl="{detailView>/attachmentUploadURL}">

< UploadCollectionItem contributor="{CreatedBy}"

documentId="{Itemno}" enableDelete="true"

enableEdit="false" fileName="{Filename}"

id=" idAttachmentItem " mimeType="{Mimetype}"

uploadedDate="{ path: 'CreatedOn', type: 'sap.ui.model.type.Date', formatOptions: {pattern: 'dd.MM.yyyy'} }"

url="{Url}" visibleDelete="{app>/requestEditMode}"

visibleEdit="false" />

</UploadCollection>

//Controller file:

```
//On Init :
```

```
this._oAttachments = this.byId("idAttachments");
```

```
this._oAttachmentItem = this.byId("idAttachmentItem").clone();
```

```
this._oComponent = this.getOwnerComponent();
```

```
this._oModel = this._oComponent.getModel();
```

```
this._oSecurityToken = null;
```

```
this._oViewProperties = new JSONModel({
```

```
    busy: false,
```

```
    delay: 0,
```

```
    allowedFileExtension: ["jpg", "png", "bmp", "doc", "docx", "xls", "xlsx", "ppt", "pptx", "pdf", "msg"],
```

```
    attachmentUploadURL: ""
```

```
});
```

```
this.setModel(oViewModel, "detailView");
```

```
//While binding the view, bind attachment also by calling below method:
```

```
_bindAttachments: function(sObjectPath) {
```

```
    var sBindingPath = sObjectPath + "/Attachments";
```

```
this._oAttachments.bindAggregation("items", {

    path: sBindingPath,

    template: this._oAttachmentItem,

    templateShareable: true

});

//update upload url for control

var _sUploadURL = window.location.origin + (this._oModel.sServiceUrl + sObjectPath) + "/Attachments";

this._oViewProperties.setProperty("/attachmentUploadURL", _sUploadURL);

}

// to get xcsrf token, call below function once view is binded, which might used below

this._oModel.refreshSecurityToken(jQuery.proxy(this._getSecToken, this));

_getSecToken: function(oData, oResponse) {

    this._oSecurityToken = oResponse.headers['x-csrf-token'];

},

//UploadCollection events :

onAttachmentChange: function(oEvent) {
```

```
var sFileName = "";

var aFiles = oEvent.getParameter("files");

for (var i = 0; i < aFiles.length; i++) {

    sFileName = aFiles[i].name;

    break;

}

var oCustomerHeaderSlug = new sap.m.UploadCollectionParameter({

    name: "slug",

    value: sFileName

});

oEvent.getSource().addHeaderParameter(oCustomerHeaderSlug);

// Header Token

var oCustomerHeaderToken = new sap.m.UploadCollectionParameter({

    name: "x-csrf-token",

    value: this._oSecurityToken

});
```

```
    this._oAttachments.addHeaderParameter(oCustomerHeaderToken);

},

onAttachmentDeleted: function(oEvent) {

    var sDeletePath = oEvent.getParameter("item").getBindingContext().sPath;

    // logic to implement remove attachment

    //i.e use this._oModel.remove() function by passing above path.

},

onAttachmentRenamed: function(oEvent) {

    // do as per need

},

onAttachmentSizeExceeded: function() {

    // do as per need

},

onAttachmentTypeMismatched: function() {

    // can be shown message for mismatch

},
```

```
onAttachmentUploadComplete: function(oEvent) {  
  
    // just refresh the attachment with updated data  
  
    var oltemsBinding = this._oAttachments.getBinding("items");  
  
    oltemsBinding.refresh();  
  
}
```

Thats all !! ☐

<http://scn.sap.com/community/developer-center/front-end/blog/2016/03/29/using-the-uploadcollection-to-uploaddownload-archivelink-files-via-gateway>

Regards,

Akhilesh

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harish vyas

August 21, 2017 at 6:58 am

Hello Akhilesh,

I tried this approach but not able to make UploadCollection work.

I have posted a question on SDN, refer to link: [LINK](#)

Can you provide some insight if possible.

Regards,

Harish

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Sagar Patil

September 18, 2016 at 10:18 am

Hi Faiza,

I am able to upload multiple files using file upload collection. I am using FileReader java script object inside onChange() event of uploadCollection control to get the file details.

Regards,

Sagar M Patil

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PEEYUSH RANJAN

March 21, 2017 at 12:56 pm

Hello Sagar,

Could you please kindly provide some spinet code for upload the multiple file as you have already did.

Thanks a lot in advance .

Peeyush

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Sharma Chetanya

September 28, 2015 at 1:57 pm

Hi Jenish,

Brilliant blog ..

Could you please share your code base via JSBin or else?

One question, why did you used this approach of overriding the existing method? `FileUploader.upload()`? Just wish to know the reason behind the need of extension, what was your use case? where did you got struck?

Please explain and share the code.

Thanks

Chet

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Former Member

February 5, 2017 at 10:36 am

Hi Jenish sir,

I am new to SAPUI5 i dont know how to use sap netweaver gateway image services in sapui5.I tried below code in single html page using eclipse but i am getting some errors please correct it revert back to me

```
<!DOCTYPE HTML>
<html>
<head>
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta http-equiv='Content-Type' content='text/html; charset=UTF-8'/>

<script src="resources/sap-ui-core.js"
id="sap-ui-bootstrap"
data-sap-ui-libs="sap.m, sap.ui.unified"
data-sap-ui-theme="sap_bluecrystal">
</script>
<!-- only load the mobile lib "sap.m" and the "sap_bluecrystal" theme -->

<script>
sap.ui.localResources("csrf_image");
var app = new sap.m.App({initialPage:"idApp1"});
var page = sap.ui.view({id:"idApp1", viewName:"csrf_image.App", type:sap.ui.core.mvc.ViewType.JS});
app.addPage(page);
app.placeAt("content");
</script>

<script>

jQuery.sap.declare("com.ODataFileUploader.Component");
```

```
jQuery.sap.require("sap.ui.unified.FileUploader");

sap.ui.unified.FileUploader.extend("com.ODataFileUploader.Component", {

    metadata : {

        properties : {

            "modelName" : "string",

            "slug" : "string",

            "csrf" : "string"

        }

    },

    upload : function() {

        var file = jQuery.sap.domByld(this.getId() + "-fu").files[0];

        try {

            if (file) {

                this._bUploading = true;

                var that = this;

                var _handleSuccess = function(data, textStatus, jqXHR){
```

```
that.fireUploadComplete({"response": "Success: File uploaded to entity" });
```

```
that._bUploading = false;
```

```
}; // end
```

```
var _handleError = function(data){
```

```
var errorMsg = "";
```

```
if (data.responseText[1]){
```

```
errorMsg = /<message>(.*?)<\/message>/.exec(data.responseText)[1];
```

```
}else{
```

```
errorMsg = 'Something bad happened';
```

```
}
```

```
that.fireUploadComplete({"response": "Error: " + errorMsg});
```

```
that._bUploading = false;
```

```
}; // end of handleError
```

```
var oHeaders = {
```

```
"x-csrf-token": this.mProperties.csrf,
```

```
"slug": this.mProperties.slug,
```

"X-Requested-With": "XMLHttpRequest",

"Content-Type": file.type,

"DataServiceVersion": "2.0",

"Accept" : "text/plain, */*"

};

jQuery.ajax({

type: 'POST',

url: this.getUploadUrl(),

headers: oHeaders,

cache: false,

contentType: file.type,

dataType: "text",

processData: false,

data: file,

success: _handleSuccess,

error: _handleError

```
});

jQuery.sap.log.info("File uploading to" + this.getUploadUrl());

} // end of if file

} catch(oException) {

jQuery.sap.log.error("File upload failed:\n" + oException.message);

}

},

renderer : {

}

});

//end of upload function
//csrf token fetch

var oFileUploader = new sap.ui.unified.FileUploader({
id : "file1",
src:"{Pfilename}",
uploadUrl:"upload/",

});

var url1 = "sap/opu/odata/SAP/ZPROJECT_SHOPPING_CART_SRV";

var csrfToken = "";
```

```
var aData = jQuery.ajax({

url : url1,

headers: { "X-CSRF-Token":"Fetch" ,

"X-Requested-With": "XMLHttpRequest",

"DataServiceVersion": "2.0" },

type: "GET",

contentType : "application/json",

dataType : 'json',

success : function(data, textStatus, jqXHR) {

csrfToken = jqXHR.getResponseHeader('x-csrf-token');

oFileUploader1.setCsrf(csrfToken);

oFileUploader1.setSlug("200000664_MOB15");

oFileUploader1.setUploadUrl(getUrl("sap/opu/odata/SAP/ZPROJECT_SHOPPING_CART_SRV/ProductimageSet"));

oFileUploader1.upload();

},

error: function(XMLHttpRequest, textStatus, errorThrown) {
```

```
}
```

```
});
```

```
var btnSubmit = new sap.m.Button("file2",{  
text:'Trigger Upload',  
press:function() {
```

```
var url1 = getUrl("/sap/opu/odata/SAP/ZPROJECT_SHOPPING_CART_SRV/");
```

```
var csrfToken = "";
```

```
var aData = jQuery.ajax({  
url : url1,
```

```
headers: { "X-CSRF-Token":"Fetch" ,  
"X-Requested-With": "XMLHttpRequest",  
"Content-Type": "image/jpeg",  
"DataServiceVersion": "2.0" },
```

```
type: "GET",  
//jsonpCallback : 'getJSON',  
contentType : "application/json",  
dataType : 'json',
```

```
//data : "",  
success : function(data, textStatus, jqXHR) {  
csrfToken = jqXHR.getResponseHeader('x-csrf-token');
```

```
oFileUploader1.setCsrftoken(csrfToken);  
oFileUploader1.setSlug("2000006");
```

```
oFileUploader1.setUploadUrl(getUrl("/sap/opu/odata/SAP/ZPROJECT_SHOPPING_CART_SRV/ProductimageSet"));

oFileUploader1.upload();

},
error: function(XMLHttpRequest, textStatus, errorThrown) {

}

});

}
});

oFileUploader.placeAt("content");
btnSubmit.placeAt("content");

</script>

</head>
<body class="sapUiBody" role="application">
<div id="content"></div>
</body>
</html>

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```




April 19, 2017 at 5:49 am

Hi [Jenish Prabhu](#)

Actually i am trying to write a logic to upload a xlsx file, and the bind the xlsx data into a table in Sap UI5 Side.

is it possible to do

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