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Integrate SAP and InterSystems IRIS using OData

SAP offers a broad support to OData in all your products. So, OData can be an excellent option to exchange data between SAP and InterSystems IRIS.

1. Follow the instructions in the article <https://community.intersystems.com/post/odata-and-intersystems-iris> to expose your IRIS data as REST OData services.
2. To consume InterSystems IRIS data from SAP using OData, follow these steps (credits to the next steps of this tutorial: <https://sapyard.com/sapui5-for-abapers-consuming-odata-service-from-sapui5-application-crud-operations/>) :
3. Create a new SAPUI5 application by the name `cruddemo`.
4. Create a XML view ' `cruddemo.view` '. Write below code in it.

```
<core:View xmlns:core="sap.ui.core" xmlns:mvc="sap.ui.core.mvc" xmlns="sap.m"
controllerName="crud_demo.crud_demo" xmlns:html="http://www.w3.org/1999/xhtml" xmlns:
l="sap.ui.commons.layout">
<Page title="CRUD Operations">
<content>
<l:AbsoluteLayout width="10rem" height="10rem"></l:AbsoluteLayout>
<VBox xmlns="sap.m" id="vboxid">
<items>
<HBox xmlns="sap.m">
<items>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Button xmlns="sap.m" id="cbtn" press="oDataCall" text="Create"></Button>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Button xmlns="sap.m" id="rbtn" press="oDataCall" text="Read"></Button>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Button xmlns="sap.m" id="ubtn" press="oDataCall" text="Update"></Button>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Button xmlns="sap.m" id="dbtn" press="oDataCall" text="Delete"></Button>
</items>
</HBox>
<HBox xmlns="sap.m">
<items>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Input xmlns="sap.m" id="uniqueid" placeholder="ID" value="1"></Input>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Input xmlns="sap.m" id="nameid" placeholder="Name" value="test"></Input>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Input xmlns="sap.m" id="emailid" placeholder="Email" value="test@gmail.com"></Input>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Input xmlns="sap.m" id="mobid" placeholder="Mobile" value="8888888888"></Input>
</items>
</HBox>
<HBox xmlns="sap.m">
<items>
<l:AbsoluteLayout width="20px" height="20px"></l:AbsoluteLayout>
<Table xmlns="sap.m"
```

```

id="userdatatable" headerText="User Data">
<items>
<ListItemBase xmlns="sap.m" id="id1"></ListItemBase>
</items>
<columns> <!-- sap.m.Column -->
<Column xmlns="sap.m"> <header> <Text xmlns="sap.m" text="Id" ></Text></header></Column>
<Column xmlns="sap.m"> <header> <Text xmlns="sap.m" text="Name" ></Text></header></Column>
<Column xmlns="sap.m"> <header> <Text xmlns="sap.m" text="Email" ></Text></header></Column>
<Column xmlns="sap.m"> <header> <Text xmlns="sap.m" text="Mobile" ></Text></header></Column>
</columns>
</Table>
</items>
</HBox>
</items> <!-- sap.ui.core.Control -->
</VBox>
</content>
</Page>
</core:View>

```

4. Create `cruddemo.controller.js`. Write below code in it.

```

onInit: function() {
that = this;
// Create Model Instance of the oData service
var oModel = new sap.ui.model.odata.v2.ODataModel("/sap/opu/odata/sap/ZCRUD_DEMO_SRV");
sap.ui.getCore().setModel(oModel, "myModel");
},
oDataCall:function(oEvent)
{
// call oData service's function based on which button is clicked.
debugger;
var myModel = sap.ui.getCore().getModel("myModel");
myModel.setHeaders({
"X-Requested-With" : "X"
});
// CREATE*****
if ('Create' == oEvent.oSource.mProperties.text) {
var obj = {};
obj.id = that.getView().byId("uniqueid").getValue();
obj.name = that.getView().byId("nameid").getValue();
obj.email = that.getView().byId("emailid").getValue();
obj.mobile = that.getView().byId("mobid").getValue();
myModel.create('/userDataSet', obj, {
success : function(oData, oResponse) {
debugger;
alert('Record Created Successfully...');
},
error : function(err, oResponse) {
debugger;
alert('Error while creating record - '
.concat(err.response.statusText));
}
});
}
}

```

```
// READ*****
else if ('Read' == oEvent.oSource.mProperties.text) {
var readurl = "/userdataSet?$filter=(id eq '')";
myModel.read(readurl, {
success : function(oData, oResponse) {
debugger;
var userdata = new sap.ui.model.json.JSONModel({
"Result" : oData.results
});
var tab = that.getView().byId("userdatatable");
tab.setModel(userdata);
var i = 0;
tab.bindAggregation("items", {
path : "/Result",
template : new sap.m.ColumnListItem({
cells : [ new sap.ui.commons.TextView({
text : "{id}",
design : "H5",
semanticColor : "Default"
}), new sap.ui.commons.TextView({
text : "{name}",
design : "H5",
semanticColor : "Positive"
}), new sap.ui.commons.TextView({
text : "{email}",
design : "H5",
semanticColor : "Positive"
}), new sap.ui.commons.TextView({
text : "{mobile}",
design : "H5",
semanticColor : "Positive"
}), ]
}), ]
});
},
error : function(err) {
debugger;
}
});
}
// UPDATE*****
if ('Update' == oEvent.oSource.mProperties.text) {
var obj = {};
obj.id = that.getView().byId("uniqueid").getValue();
obj.email = that.getView().byId("emailid").getValue();
var updateurl = "/userdataSet(id='"
+ that.getView().byId("uniqueid").getValue() + "')";

myModel.update(updateurl, obj, {
success : function(oData, oResponse) {
debugger;
alert('Record Updated Successfully...');
},
error : function(err, oResponse) {
debugger;
alert('Error while updating record - '
.concat(err.response.statusText));
}
});
}
```

```
}  
// DELETE*****  
if ('Delete' == oEvent.oSource.mProperties.text) {  
var delurl = "/userdataSet(id='"  
+ that.getView().byId("uniqueid").getValue() + "')";  
myModel.remove(delurl, {  
success : function(oData, oResponse) {  
debugger;  
alert('Record Removed Successfully...');  
},  
error : function(err, oResponse) {  
debugger;  
alert('Error while removing record - '  
.concat(err.response.statusText));  
}  
});  
}  
}
```

4. Save, Deploy and Run the application. You should be able to run the application using below URL
<http://hostname:8000/sap/bc/ui5ui5/sap/zcruddemo/index.html>.

6. Output:

CRUD Operations

Create Read Update Delete

1 test test@gmail.com 8888888888

User Data

Id	Name	Email	Mobile
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[#Interoperability](#) [#InterSystems IRIS](#)

[Check the related application on InterSystems Open Exchange](#)

Source URL: <https://community.intersystems.com/post/integrate-sap-and-intersystems-iris-using-odata>