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學習

sapui5

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#sapui5

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# 1: sapui5

## SAPUI5

SAPHTML5SAPUI5。 SAPUI5 - 。 UI。 SAPUI5。 UI5JavaScriptCSSHTML5UI。 SAPUI5。 SAPUI5SAP HANA Cloud Platform。 oData。

HTML5SAP UI。 HTML5。

OpenUI5 SAPUI5。 UI5。

## UI5

- RIAJavaScript
- CSS3
- 
- jQuery
- SAP
- OpenAjaxJavaScript
- 
- Translation / i18n
- Fiori Design

UI5。 SDKAPI [OpenUI5 SDK](#) [SAPUI5 SDK](#) 。

## Examples

HTML。 SAPUI5。

```
<!DOCTYPE html>
<html>
<head>
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta charset="utf-8">
  <title>Hello World App</title>
  <script src="http://<<server>>:<<port>>/resources/sap-ui-core.js"
    id="sap-ui-bootstrap"
    data-sap-ui-theme="sap_bluecrystal"
    data-sap-ui-libs="sap.m">
  </script>
</head>
<body class="sapUiBody" id="content">
</body>
</html>
```

<><>。 OpenUI5src =“ <https://openui5.hana.ondemand.com/resources/sap-ui-core.js> ”  
。 SAP HANA Cloud PlatformSAPUI5src =“  
<https://sapui5.hana.ondemand.com/resources/sap-ui-core.js> ”。

```

<!DOCTYPE html>
<html>
<head>
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
  <title>SAPUI5 Hello World</title>
  <!-- Load SAPUI5 , theme and control library -->
  <script id="sap-ui-bootstrap"
    src="https://sapui5.hana.ondemand.com/resources/sap-ui-core.js"
    data-sap-ui-theme="sap_bluecrystal"
    data-sap-ui-libs="sap.m"></script>

  <!-- Create a UI5 button and place it onto the page -->
  <script>
    new sap.m.Button({
      text:"Hello world",
      press: function(){
        alert("hello SapUI5!");
      }
    }).placeAt("content");
  </script>
</head>
<body class="sapUiBody" id="content">
</body>
</html>

```

```

<!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 type="text/javascript" charset="utf-8" src="cordova.js"></script>
  <script src="resources/sap-ui-core.js"
    id="sap-ui-bootstrap"
    data-sap-ui-libs="sap.m"
    data-sap-ui-theme="sap_bluecrystal"
    data-sap-ui-xx-bindingSyntax="complex"
    data-sap-ui-compatVersion="1.24"
    data-sap-ui-resourceroots='{ "<projectname>": "." }'>
  </script>
  <!-- only load the mobile lib "sap.m" and the "sap_bluecrystal" theme -->

  <script>
    sap.ui.getCore().attachInit( function () {
      new sap.ui.core.ComponentContainer ("<ComponentId(can be anyname you wish)>", {
        height : "100%",
        name : "<name of component>"
      }).placeAt('content');
    });
  </script>

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

```

## attachInit

sapui5 <https://riptutorial.com/zh-TW/sapui5/topic/970/sapui5>

## 2: sapui5

1. var oTable = new selectAllVisibleRowsTable{... // alternativeltysap.ui.table.Table
2. sap.ui.table.Table.extend('selectAllVisibleRowsTable'){..... //

sapui5API。 <https://sapui5.hana.ondemand.com/docs/api/symbols/sap.ui.table.Table.html>

## Examples

### sapui5

```
//Create a layout
var tableLayout = new sap.ui.commons.layout.MatrixLayout({
    layoutFixed : false,
    columns : 2,
    width : "100%",
    height : "100%",
    widths : [ "20%", "80%" ]
}).addStyleClass('dsAvailLayout');

sap.ui.table.Table.extend('selectAllVisibleRowsTable', {
    renderer : function(oRm, oControl) {
        sap.ui.table.TableRenderer.render(oRm, oControl);
    },

    selectAllVisibleRowIndex: function(checkKey) {
        var model = this.getModel();
        var rowPath = this.getBindingInfo('rows').path;
        var rows = model.getProperty(rowPath);
        var start = this.getFirstVisibleRow();
        var end = Math.min(start + this.getVisibleRowCount(), rows.length);

        for (var i = 0; i < rows.length; i++) {
            var row = rows[i];
            row[checkKey] = (i >= start && i < end);
        }
        this.invalidate();
    },

    selectAll: function(checkKey) {
        var model = this.getModel();
        var rowPath = this.getBindingInfo('rows').path;
        var rows = model.getProperty(rowPath);
        var start = this.getFirstVisibleRow();
        var end = rows.length;

        for (var i = 0; i < rows.length; i++) {
            var row = rows[i];
            row[checkKey] = (i >= start && i < end);
        }
        this.invalidate();
    },

    handle: function(){
        try{
            var model = this.getModel();
            var rowPath = this.getBindingInfo('rows').path;
```

```

        var rows = model.getProperty(rowPath);
        var selectedIndices = [];
        for (var i = 0; i < rows.length; i++) {
            var row = rows[i];
            if(row['checked'] == true){
                selectedIndices.push(i);
            }
        }

        objStr = "";
        var suffix = "";
        for (var i = 0; i < selectedIndices.length; i++) {
            var idx = selectedIndices[i];
            var cxt = this.getContextByIndex(idx);
            var path = cxt.sPath;
            var obj = this.getModel().getProperty(path);
            objStr = objStr+suffix+JSON.stringify(obj);
            suffix = ",";
        }
    }catch(err){

    }
});

var oTable = new selectAllVisibleRowsTable({
    width: '100%',
    selectionMode : sap.ui.table.SelectionMode.None,
    rowSelectionChange: function(e) {
        var indices = e.getParameter('rowIndices');
        for (var i = 0; i < indices.length; i++) {
            var idx = indices[i];
            if (oTable.isIndexSelected(idx)) {
                var cxt = oTable.getContextByIndex(idx);
                var path = cxt.sPath;
                var obj = oTable.getModel().getProperty(path);
                //console.log(JSON.stringify(obj));
                alert (JSON.stringify(obj));
            }
        }
    },
    columns:[new sap.ui.table.Column({
        label: '',
        width: '5%',
        template: new sap.ui.commons.CheckBox({
            checked: '{checked}'
        })
    }),
    new sap.ui.table.Column({
        label: new sap.ui.commons.TextView({
            text: "Property"
        }),
        width: '60%',
        disabled:true,
        template: new sap.ui.commons.TextView({
            text: '{property}'
        })
    }),
    new sap.ui.table.Column({
        label: new sap.ui.commons.TextView({
            text: "Type"

```

```

        }),
        width: '35%',
        template: new sap.ui.commons.TextView({
            text: '{type}'
        })
    })
}

});

var oTableLbl = new sap.ui.commons.Label({
    text : "Select Property:",
    labelFor : oTable
});

tableLayout.createRow({
    height : "70px"
}, oTableLbl,oTable);

tableLayout.createRow({
    height : "30px"
}, "" , (new sap.ui.commons.Button({
    text: 'Select visible',
    press: function(e) {
        oTable.selectAllVisibleRowsIndex('checked');
    }
})));

tableLayout.createRow({
    height : "30px"
}, "" , (new sap.ui.commons.Button({
    text: 'Select All',
    press: function(e) {
        oTable.selectAll('checked');
    }
})));

tableLayout.createRow({
    height : "30px"
}, "" , (new sap.ui.commons.Button({
    text: 'OK',
    press: function(e) {
        oTable.bindRows('/');
        var model = new sap.ui.model.json.JSONModel();
        entityResults = JSON.parse(response.replace("meta", ""));
        isErrorExists = false;
        var data = [];
        for ( var key in entityResults) {
            if (entityResults.hasOwnProperty(key)) {
                data.push({
                    property : entityResults[key].name,
                    type : entityResults[key].type,
                    filter : entityResults[key].filter,
                    checked : false
                });
            }
        }
        model.setData(data);
    }
}));

```



```
        oTable.setModel(model);
    }
}));
```

## SAPUI5

### sap.m.Table

#### XML

```
<mvc:View
controllerName="com.sap.app.controller.Main"
xmlns:mvc="sap.ui.core.mvc"
xmlns:core="sap.ui.core"
xmlns="sap.m">
<Page title="Table Example">
  <content>
    <Table id="idEmployeesTable"
      items="{/Employees}">
      <headerToolbar>
        <Toolbar>
          <Title text="Employees"/>
        </Toolbar>
      </headerToolbar>
      <columns>
        <Column>
          <Text text="Name" />
        </Column>
        <Column>
          <Text text="City" />
        </Column>
        <Column>
          <Text text="Country" />
        </Column>
        <Column
          hAlign="Right">
          <Text text="Reporting" />
        </Column>
      </columns>
      <items>
        <ColumnListItem>
          <cells>
            <Text
              text="{FirstName} {LastName}" />
            <Text
              text="{City}" />
            <Text
              text="{Country}" />
            <ObjectNumber
              number="{ReportsTo}"
              unit="employees"
            />
          </cells>
        </ColumnListItem>
      </items>
    </Table>
  </content>
</Page>
</mvc:View>
```

## JS

```
var oModel = new  
sap.ui.model.odata.ODataModel("http://services.odata.org/V2/Northwind/Northwind.svc");  
this.getView().setModel(oModel);
```

sapui5 <https://riptutorial.com/zh-TW/sapui5/topic/6378/sapui5>

# 3:

## Examples

### ODataViz-Chart

Viz-Charts ◦ ◦

#### IDVizFrameFlattenedDataset

```
// defining the Filter
var oFilter = new sap.ui.model.Filter("Data1", sap.ui.model.FilterOperator.GT, 10);

//Setting oModel
var oModel = new sap.ui.model.odata.ODataModel("/destinations/v4/abc/http/app.svc", oConfig);
this.getView().setModel(oModel);

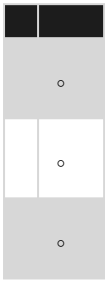
//Binding the filtered data to the chart by calling it from its ID and binding the data there
this.getView().byId("idVizFrame").getDataset().getBinding("data").filter([oFilter]);
```

### XML

```
<viz:VizFrame id="idVizFrame" uiConfig="{applicationSet:'fiori'}" height='100%' width="100%"
vizType='line' >
  <viz:dataset>
    <viz.data:FlattenedDataset data="{/YOUR_ENTITY_SET}">
      <viz.data:dimensions>
        <viz.data:DimensionDefinition name="TimeStamp" value="{TimeStamp}"/>
      </viz.data:dimensions>
      <viz.data:measures>
        <viz.data:MeasureDefinition name="SENSOR1" value="{SENSOR1}"/>
      </viz.data:measures>
    </viz.data:FlattenedDataset>
  </viz:dataset>
  <viz:feeds>
    <viz.feeds:FeedItem id='valueAxisFeed' uid="valueAxis" type="Measure"
values="Data_SENSOR1"/>
    <viz.feeds:FeedItem id='categoryAxisFeed' uid="categoryAxis" type="Dimension"
values="TimeStamp"/>
  </viz:feeds>
</viz:VizFrame>
```

<https://riptutorial.com/zh-TW/sapui5/topic/7620/>

# 4:



## Examples

### xmlview

#### xmlView

```
<mvc:View
  controllerName="sap.m.sample.ListCounter.List"
  xmlns:mvc="sap.ui.core.mvc"
  xmlns="sap.m">
  <List
    headerText="Products"
    items="{products>/Products}">
    <!-- Template of the list item -->
    <StandardListItem
      title="{Name}"
    />
  </List>
</mvc:View>
```

```
sap.ui.define([
  'jquery.sap.global',
  'sap/ui/core/mvc/Controller',
  'sap/ui/model/json/JSONModel'
], function(jQuery, Controller, JSONModel) {
  "use strict";

  var ListController = Controller.extend("sap.m.sample.ListCounter.List", {

    onInit : function (evt) {
      // Model
      var oModel = new JSONModel("/products.json");
      this.getView().setModel(oModel, "products");
    }
  });

  return ListController;
});
```

#### products.json

```

{
  Products : [
    {"Name": "Product 1"},
    {"Name": "Product 2"},
    {"Name": "Product 3"},
  ]
}

```

```

<mvc:View
  controllerName="sap.m.sample.ListCounter.List"
  xmlns:mvc="sap.ui.core.mvc"
  xmlns="sap.m">
  <List
    headerText="Fruits"
    items="{path:'products>/Products', sorter:{path:'Name'}, filter:{path:'Type',
operator:'EQ',value1:'Fruit'}}">
    <!-- Template of the list item -->
    <StandardListItem
      title="{Name}"
    />
  </List>
  <List
    headerText="Food"
    items="{path:'products>/Products', sorter:{path:'Name'}, filter:{path:'Type',
operator:'EQ',value1:'Food'}}">
    <!-- Template of the list item -->
    <StandardListItem
      title="{Name}"
    />
  </List>
</mvc:View>

```

```

sap.ui.define([
  'jquery.sap.global',
  'sap/ui/core/mvc/Controller',
  'sap/ui/model/json/JSONModel'
], function(jQuery, Controller, JSONModel) {
  "use strict";

  var ListController = Controller.extend("sap.m.sample.ListCounter.List", {

    onInit : function (evt) {
      // Model
      var oModel = new JSONModel("/products.json");
      this.getView().setModel(oModel, "products");
    }
  });

  return ListController;
});

```

## products.json

```

{
  Products : [
    {"Name": "Banana", "Type": "Fruit"},

```

```

    {"Name": "Meat", "Type": "Food"},
    {"Name": "Apple", "Type": "Fruit"},
    {"Name": "Rice", "Type": "Food"},
  ]
}

```

## xmlView

```

<mvc:View
  controllerName="sap.ui.demo.wt.controller.App"
  xmlns="sap.m"
  xmlns:mvc="sap.ui.core.mvc"
  displayBlock="true">
  <App>
    <pages>
      <Page content="{path:'Tiles>/Tiles',factory:'.tileFactory'}">

        </Page>
      </pages>
    </App>
  </mvc:View>

```

```

sap.ui.define([
  "sap/ui/core/mvc/Controller",
  "sap/ui/model/json/JSONModel"
], function (Controller, JSONModel) {
  "use strict";

  return Controller.extend("sap.ui.demo.wt.controller.App", {

    onInit: function() {
      var oModel = new JSONModel("./model/data.json");

      this.getView().setModel(oModel, "Tiles");
    },
    tileFactory: function(sId, oContext) {
      var oUIControl = null;

      var type = oContext.getProperty("type");

      switch(type) {
        case "STD":
          var title = oContext.getProperty("Title");
          oUIControl = new sap.m.StandardTile();

          oUIControl.setTitle(title);
          break;
        case "NEWS":
          var title = oContext.getProperty("Title");
          var newsContent = new sap.m.NewsContent({contentText:title});
          oUIControl = new sap.m.GenericTile();
          oUIControl.addTileContent(new sap.m.TileContent({content:newsContent}));
          break;
        case "IMG":
          var src = oContext.getProperty("src");
          var imgContent = new sap.m.ImageContent({src});
          oUIControl = new sap.m.GenericTile();
          oUIControl.addTileContent(new sap.m.TileContent({content:imgContent}));
          break;
      }
    }
  });
}

```

```
    }  
    return oUIControl;  
  }  
});  
});
```

## data.json

```
{  
  "Tiles": [  
    {  
      "type": "STD",  
      "Title": "Standard Tile"  
    },  
    {  
      "type": "NEWS",  
      "Title": "NEWS Tile"  
    },  
    {  
      "type": "IMG",  
      "src": "https://1.bp.blogspot.com/-2YLGmdxqXMk/V58ki-  
s5DLI/AAAAAAAAANhs/jcSRMEeJN_89vXNdrieljDGFhF5X-yh4ACLcB/s1600/ui5.png"  
    }  
  ]  
}
```

<https://riptutorial.com/zh-TW/sapui5/topic/7930/>

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