Week 4: Further Topics

Unit 2: SAP Connector – SAPUI5

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Introduction to SAPUI5 automation

- SAPUI5 is a framework that includes a collection of libraries that you can use to build applications that run in a desktop or mobile browser – while only maintaining one code base.

- An SAPUI5 application requires specific attention to be managed by Desktop Agent.

- There is a separate library that implements SAPUI5 object-specific behaviors. It overrides the standard methods and adds extra ones.
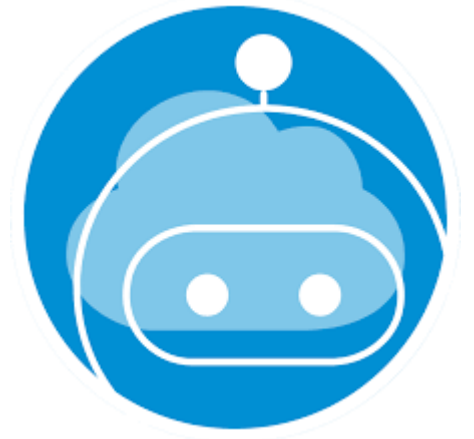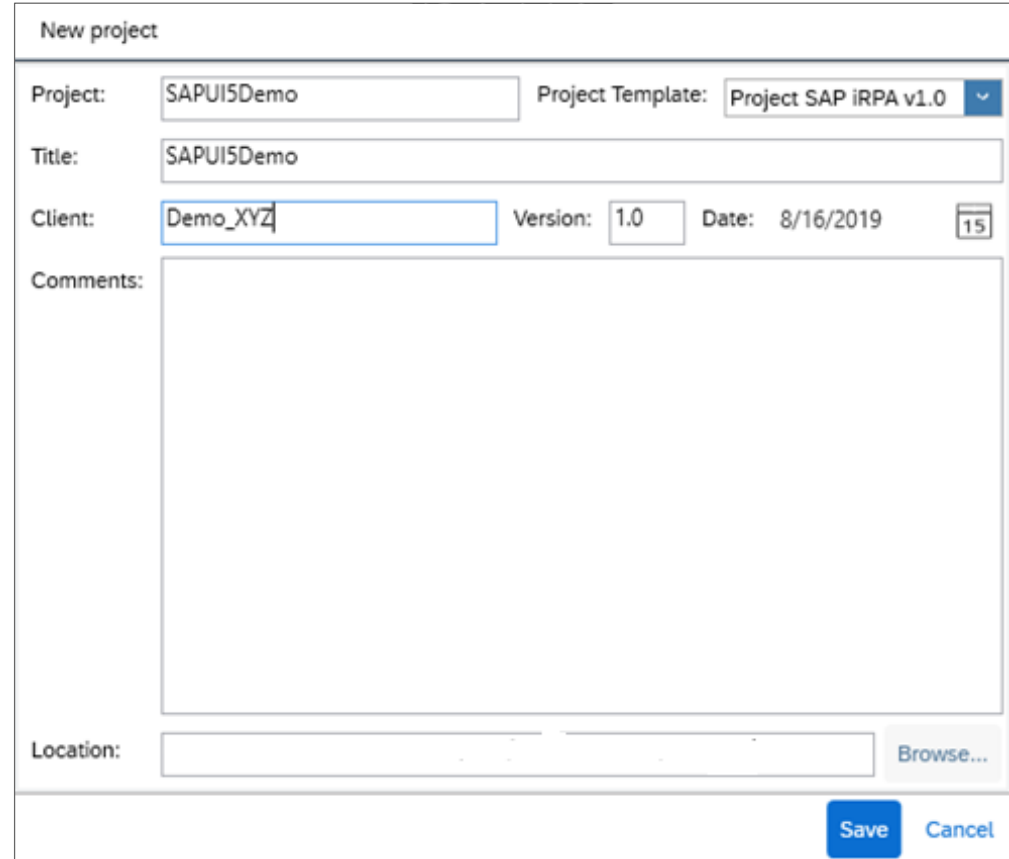
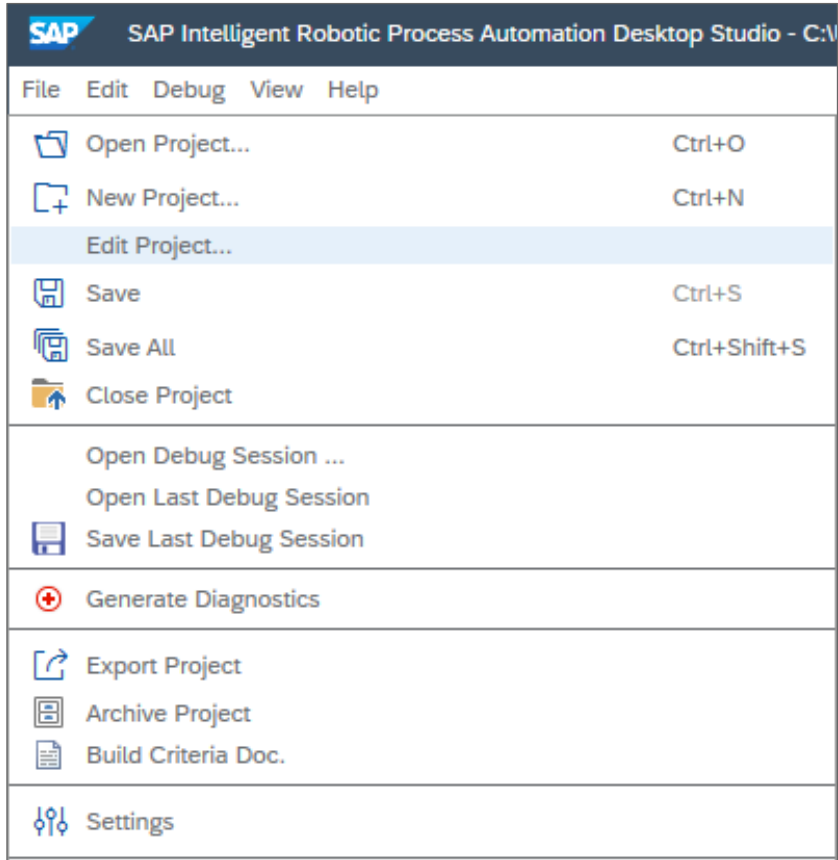# SAP Connector – SAPUI5
Add SAPUI5 library
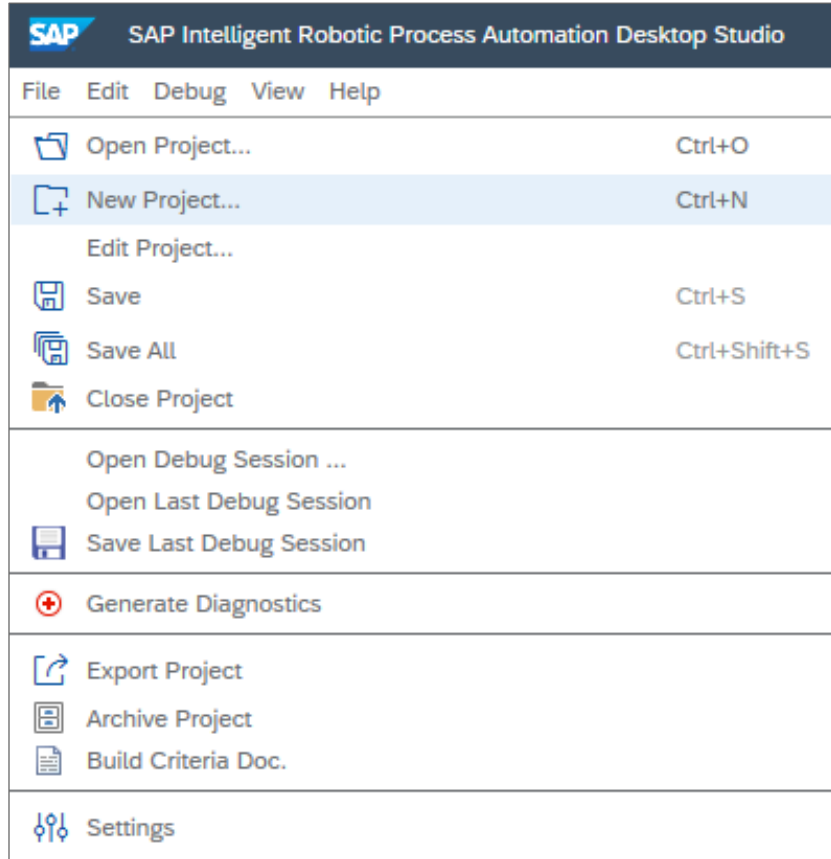
- Start Desktop Studio and in the menu bar, select File New Project
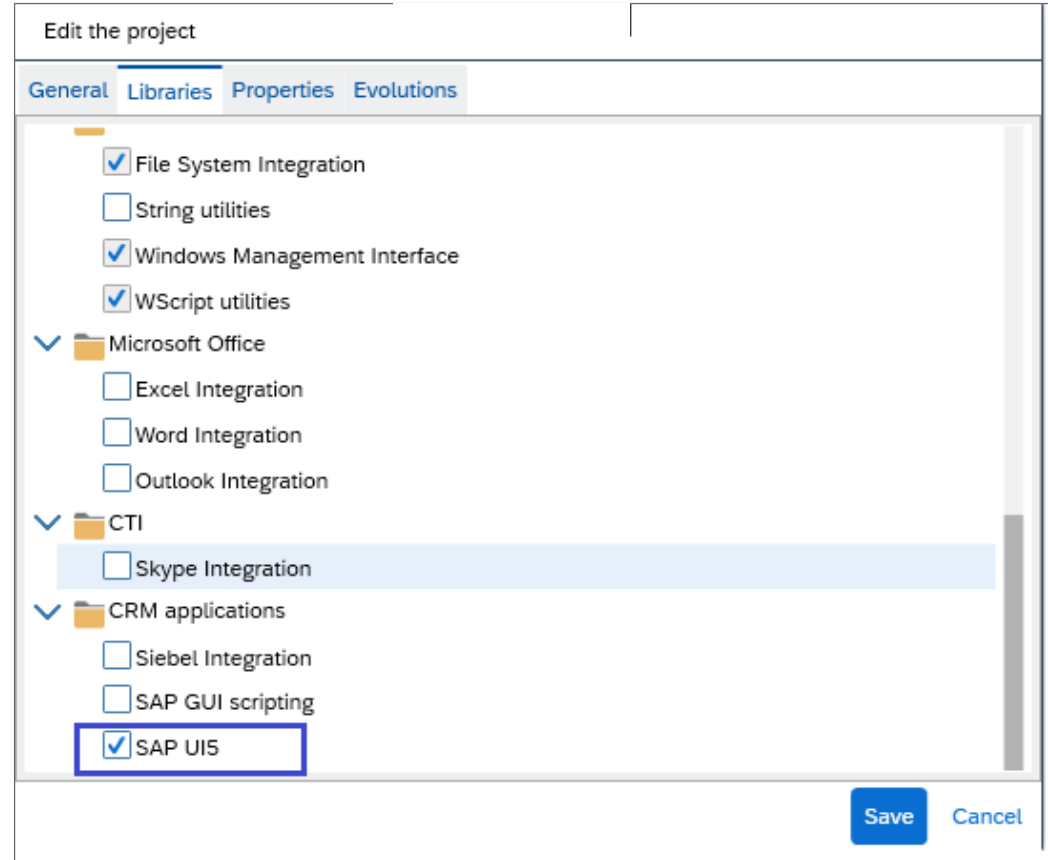
- Enter the properties of the project and click Save

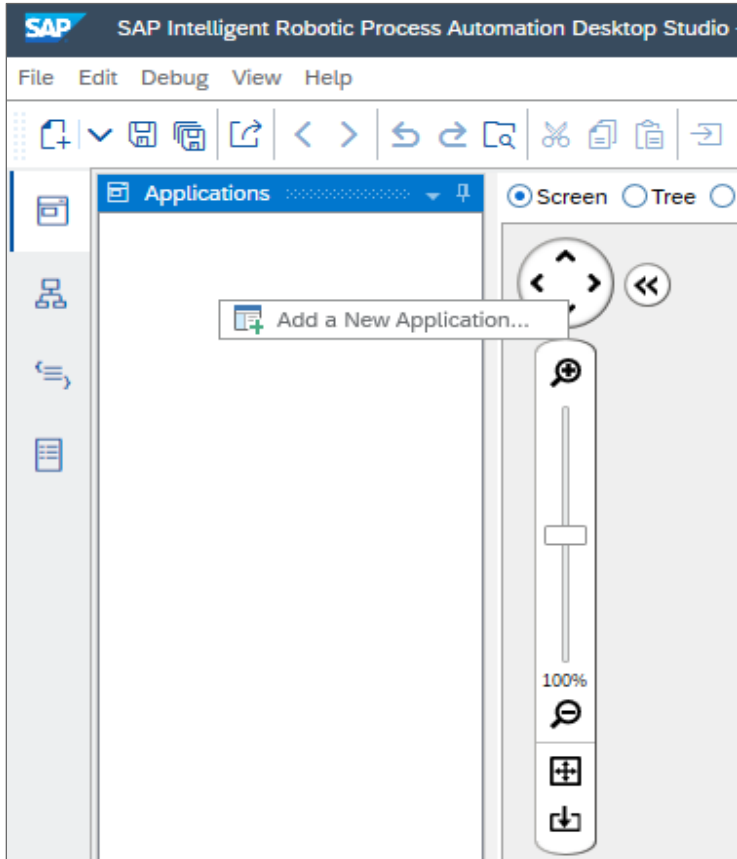# SAP Connector – SAPUI5
Add SAPUI5 library
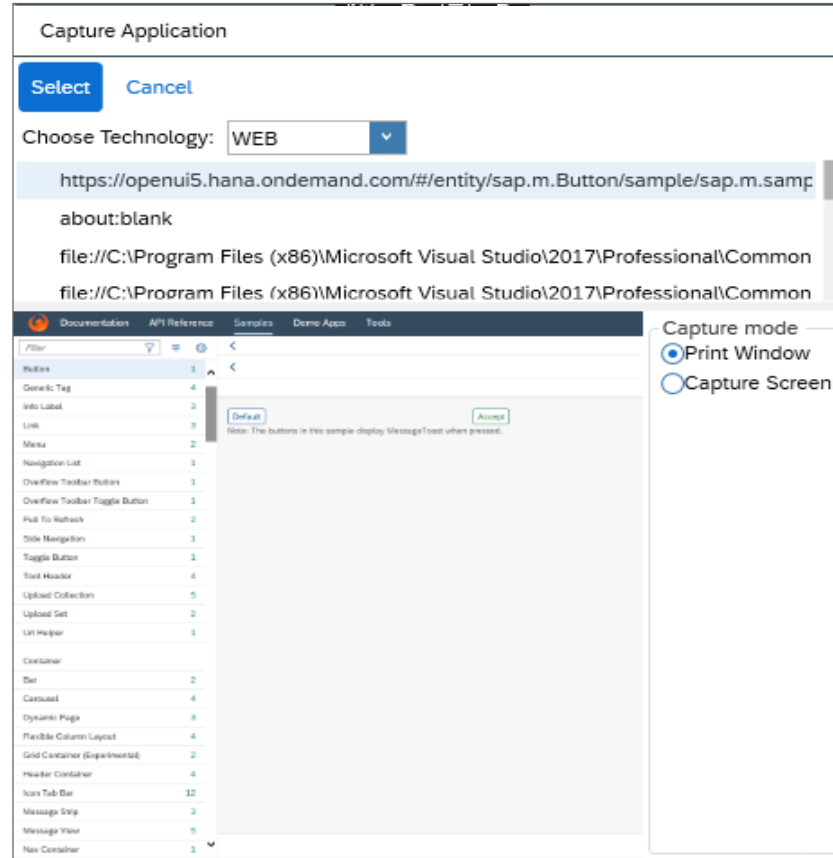

- In the menu bar select File → Edit Project

- Go to the Libraries tab

- Check the SAP UI5 box in the CRM applications section

SAP Connector – SAPUI5
Capture UI5 application

- Open UI5 page in Web browser
- Go back to Desktop Studio and in Explorer perspective, select Add a New Application

- Choose Technology: WEB
- Select UI5 page and choose Select
- You now have UI5 application in Explorer view

SAP Connector – SAPUI5
Custom type for UI5 application

Select SAPUI5 as Custom Type

Select criterion of the application

SAP Connector – SAPUI5
Capture page
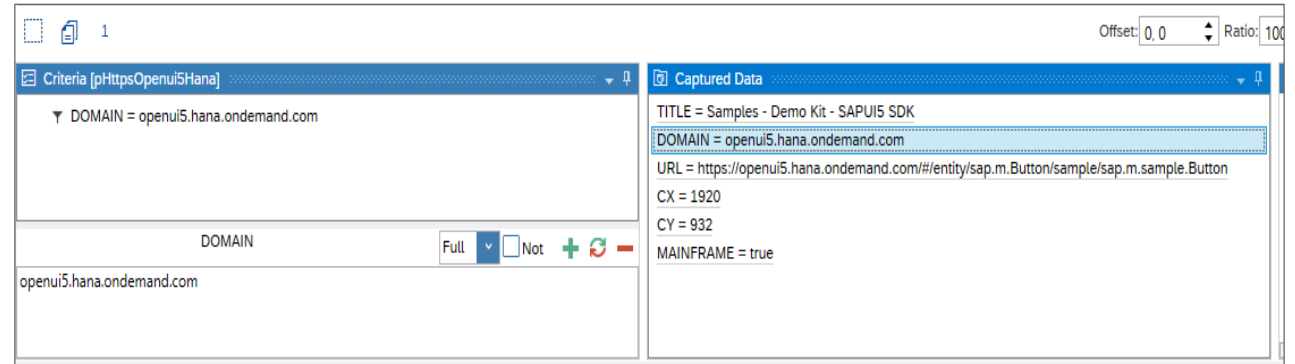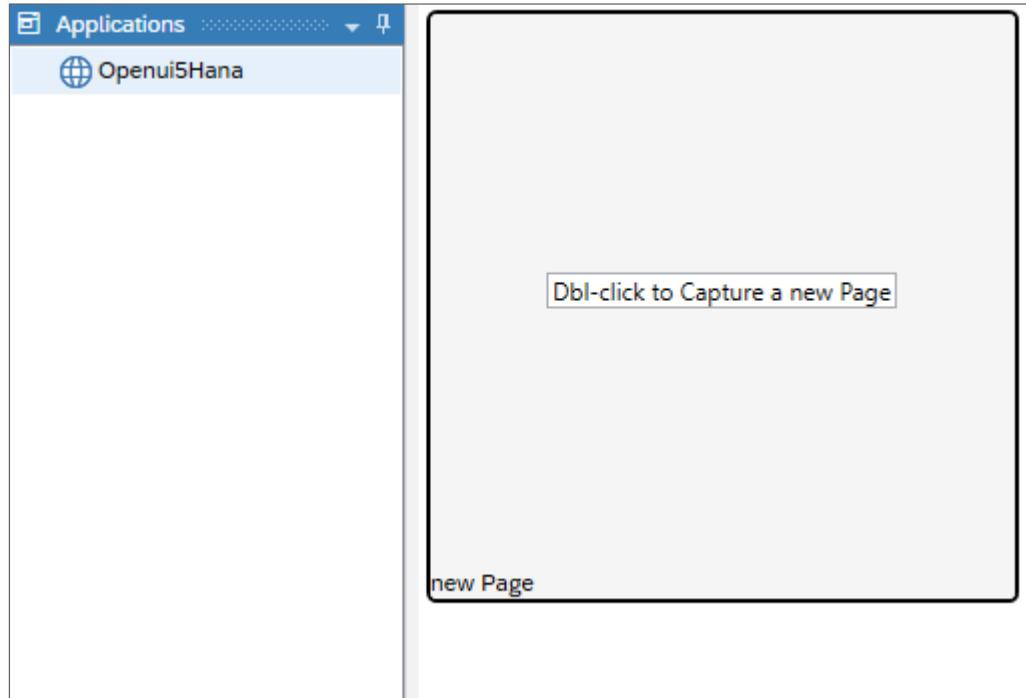
- Double-click to **capture a new page**
- Select the criterion of **the page**

SAP Connector – SAPUI5
Declare UI5 control

Select the element → right-click → Associate to New Item

"data-sap-ui" tag in the captured data

SAP Connector – SAPUI5
Custom type for UI5 application

Custom type of the item

Select right criterion of the item

Available UI5 controls and respective supported methods

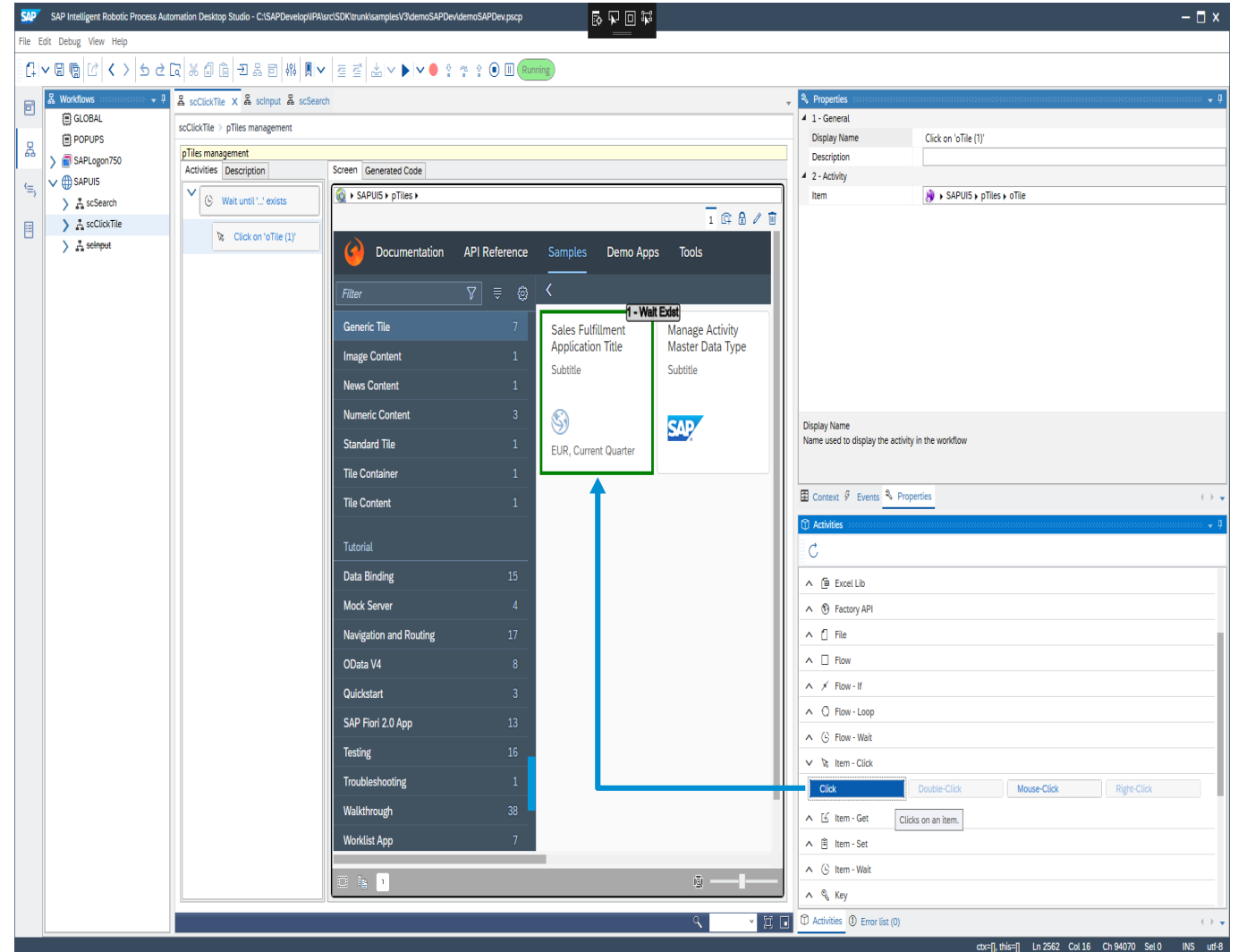| Sr. No.	UI5 Control	Supported UI5 Methods
1	toggleButton	click()
2	button	click()
3	searchfield	set(value)
4	slider	set(min, max)
5	menu	open()
6	combobox	set(value), getItems(), addItem(data)
7	radio	set(value)
8	checkbox	set(value)
9	inputswitch	set(value)
10	multiinput	set(data)
11	navigationlist	set(value), addItem(value), getItems()
12	segmentbutton	set(value), getItems(), addItem(value)
13	feedcontent	set(value), press()
14	actionselect	open()
15	calendar	addItem(data)
16	uploadcollection	set(value), addItem(value)
17	taccount	addCredit(value), addDebit(value), getCredit(value)
18	table	selectAll(ed), clearSelection(), setSelectedIndex(value), filter()
19	map	getRegions(), click(value)
20	carousel	next(), prev()
21	treegrid	expan(value)
22	input	set(value)
23	uploadcollection	set(value), addItem(value)
24	pseudobutton	click()
25	tablerow	click()

SAP Connector – SAPUI5
Add actions in UI5 Items

There are two ways you can add actions in the UI5 items to perform repetitive tasks.
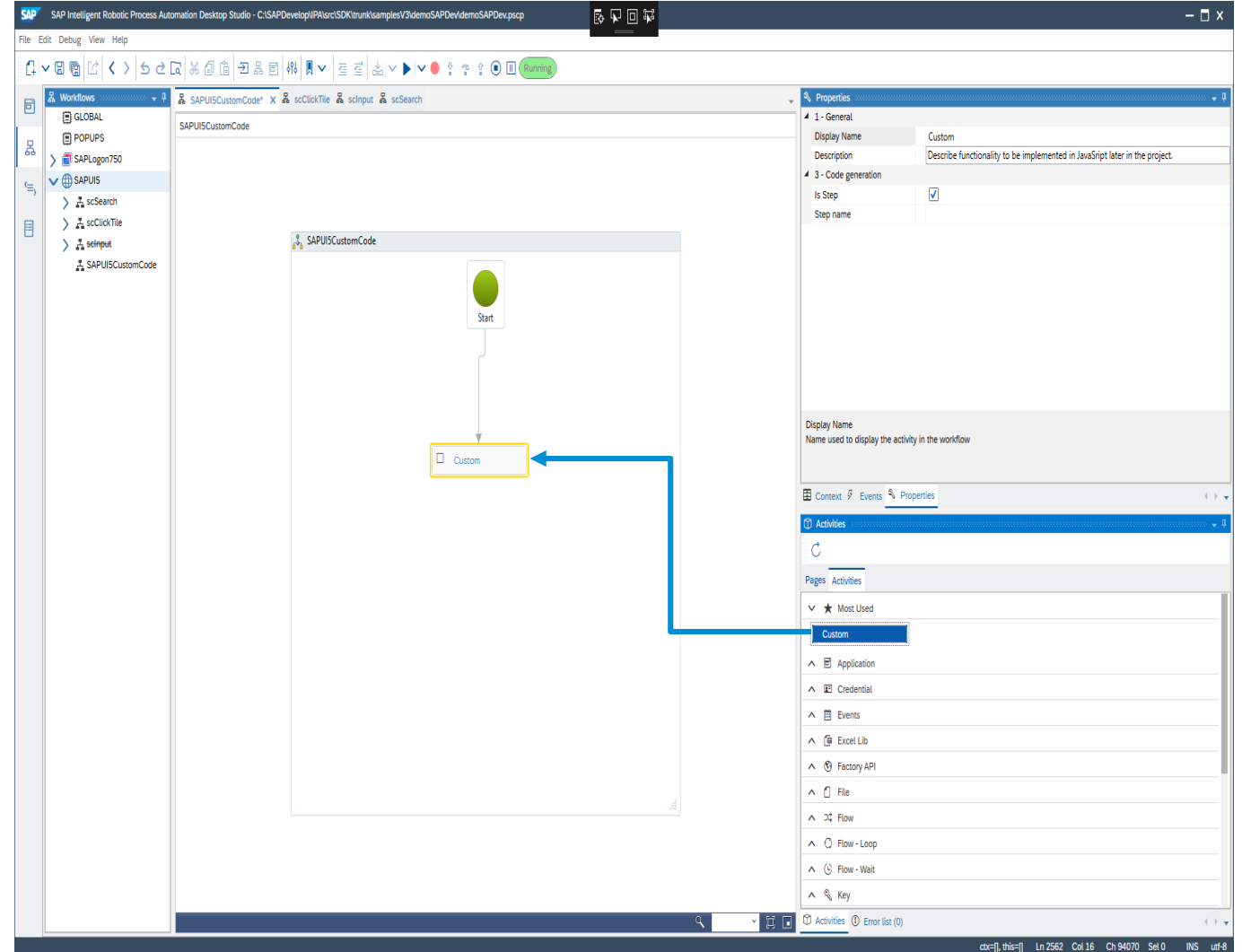
- Drag and drop the activity in the respective item

Add actions in UI5 Items

There are two ways you can add actions in the UI5 items to perform repetitive tasks.

- Add the Custom activity in the workflow.
- From editor, add the respective object of the UI5 control and call the necessary methods.
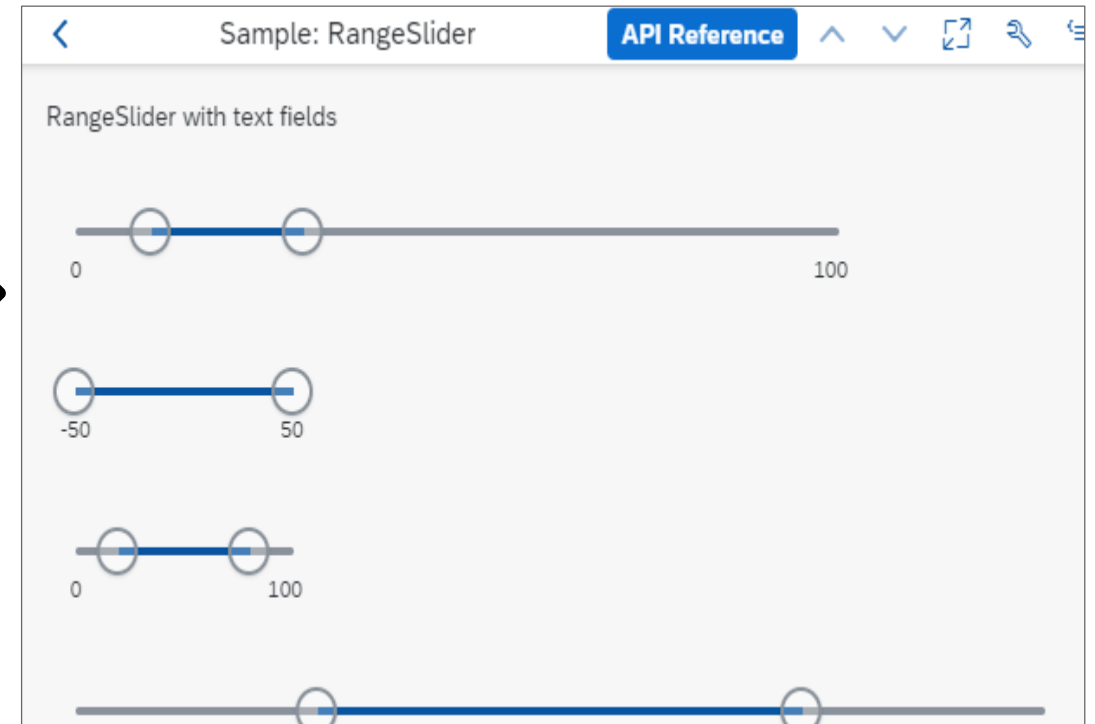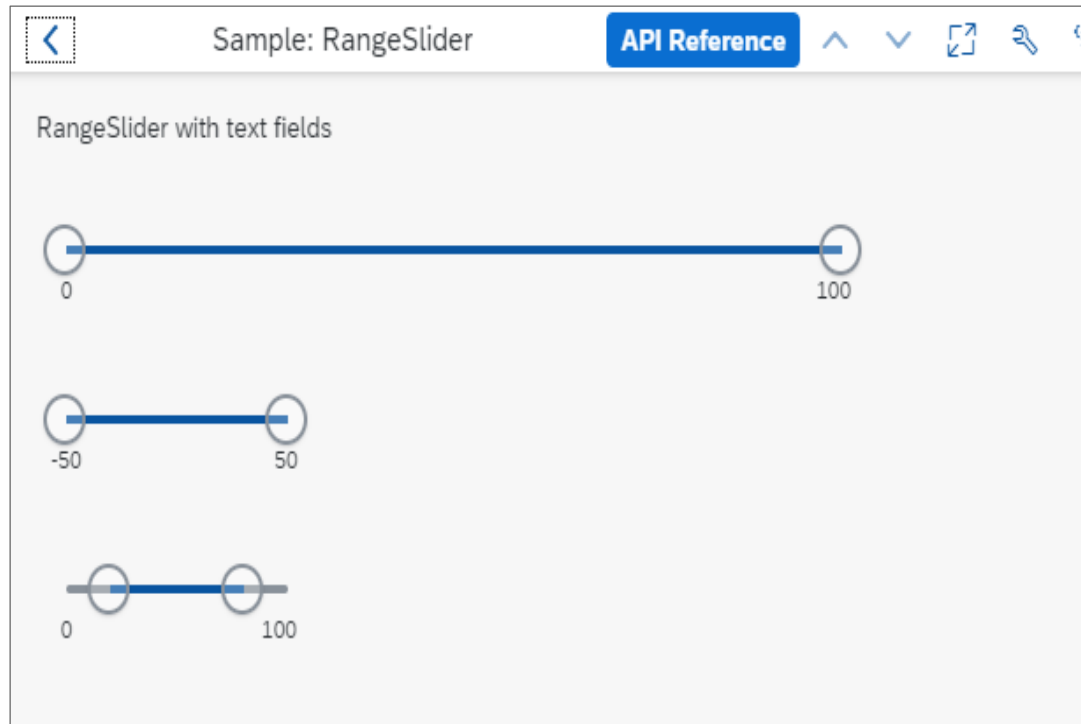
Demo on How to Automate SAP UI5 Applications

DEMO

SAP Connector – SAPUI5
Implementation using Custom

Slider: Set value with start
and end range

```
SAPUI5.pRangeSlider.waitAll(function(ev) {
  SAPUI5.pRangeSlider.oSlider.set(20,30);
  notifySuccess( ""END" event received: UI 5 application terminated successfully." );
}, 0);
```

Implementation using Custom

Upload collection:
to upload file in UI5 page

```
SAPUI5.pRangeSlider.waitAll(function(ev) {
  SAPUI5.pRangeSlider.oSlider.set(20,30);
  notifySuccess( ""END" event received: UI 5 application terminated successfully." );
}, 0);
```

Table activity

Select all the rows of the table: SAPUI5.pTableFilter.oTable.selectAll();

Table activity

Deselect all the rows of the table: SAPUI5.pTableFilter.oTable.clearSelection();
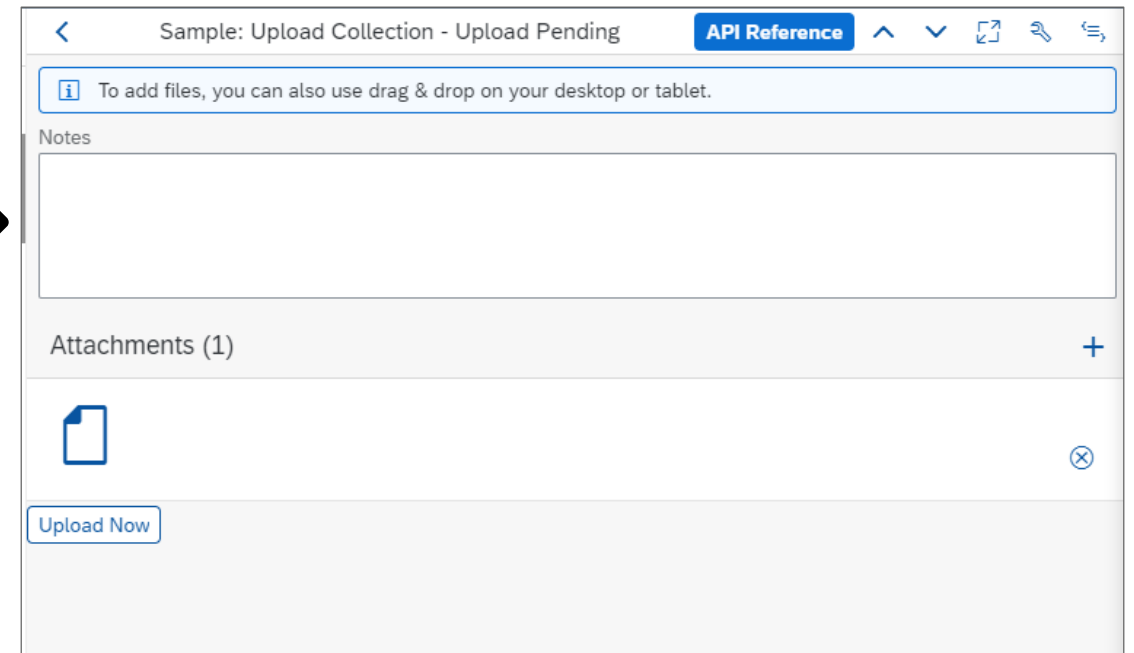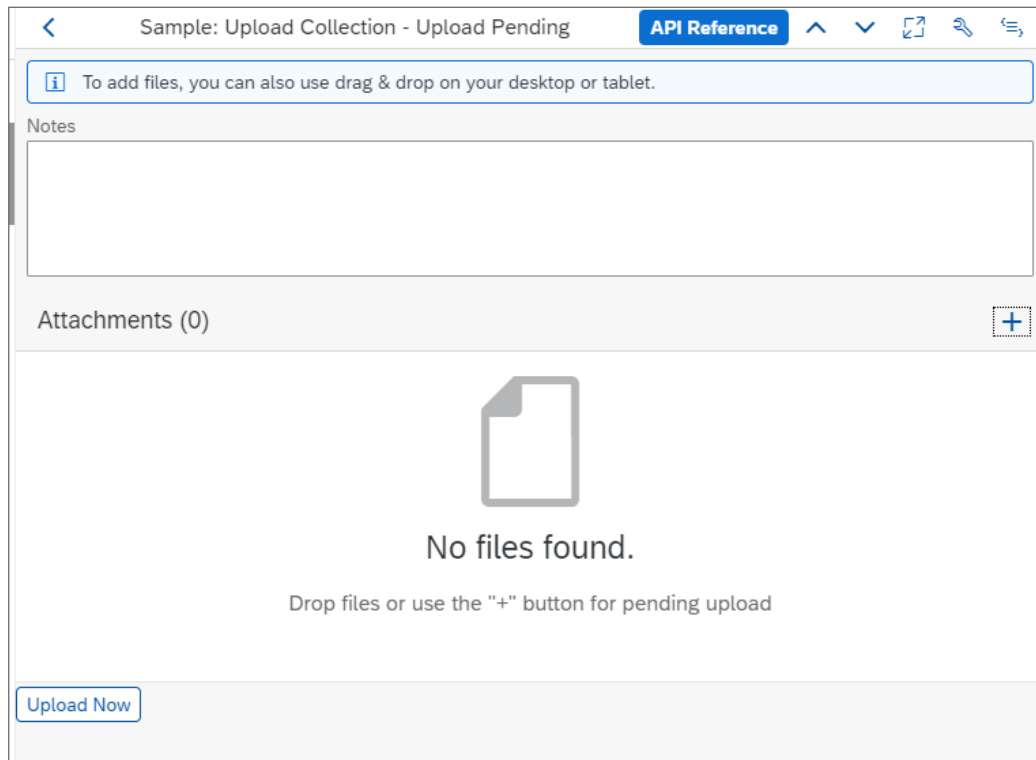
SAP Connector – SAPUI5
Table activity

Select a row: SAPUI5.pTableFilter.oTable.setSelectedIndex(1)

Multiple input

Set multiple input:

SAPUI5.pMultiInput.oMultiInput.set({text: "Test1", key:"Test1"});
SAPUI5.pMultiInput.oMultiInput.set({text: "Test2", key:"Test2"});

Segment button

Add item: SAPUI5.pSegmentButton.oSegmentButton.addItem({text: "toto", key:"totoKey"});
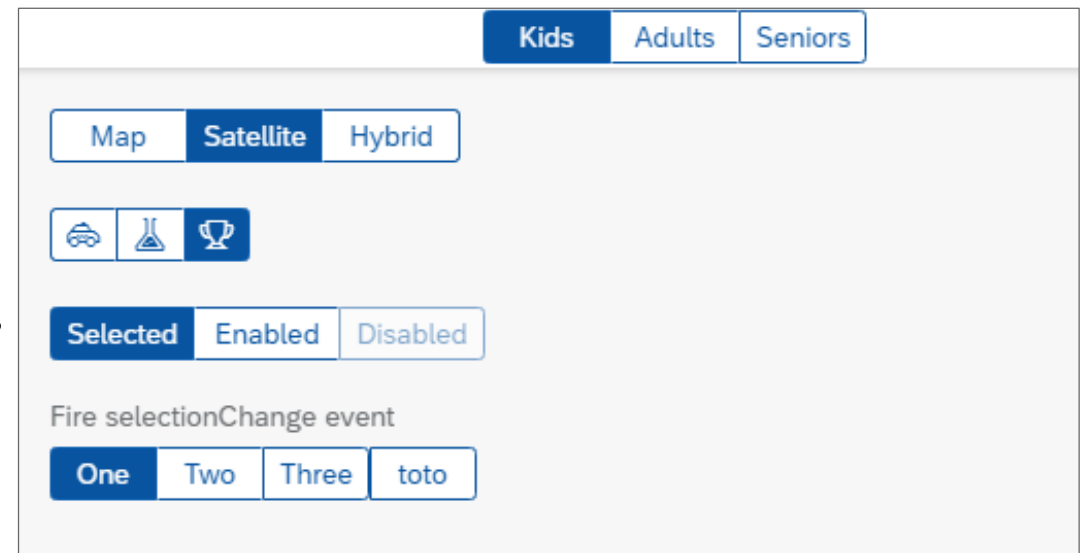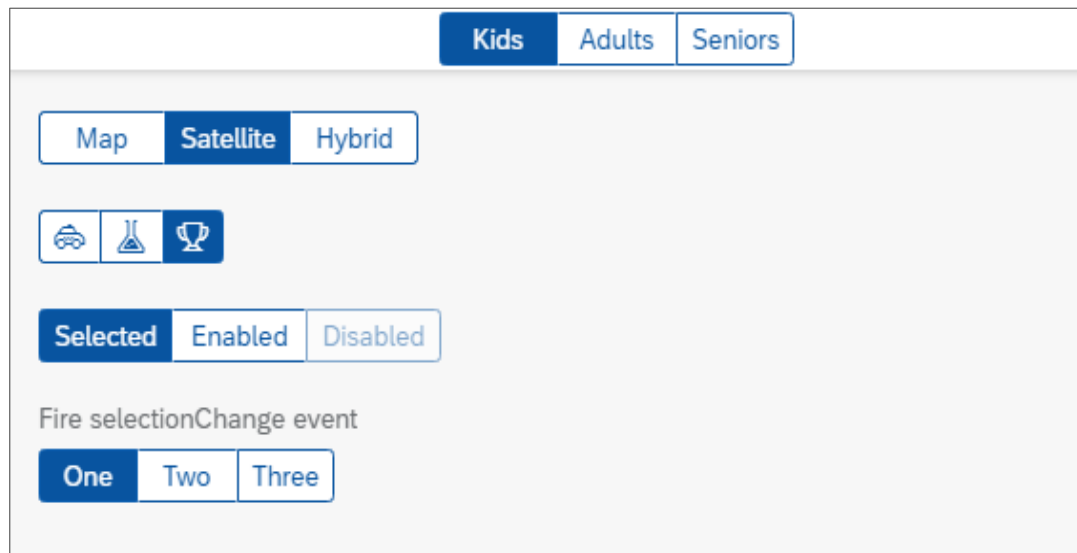
Segment button

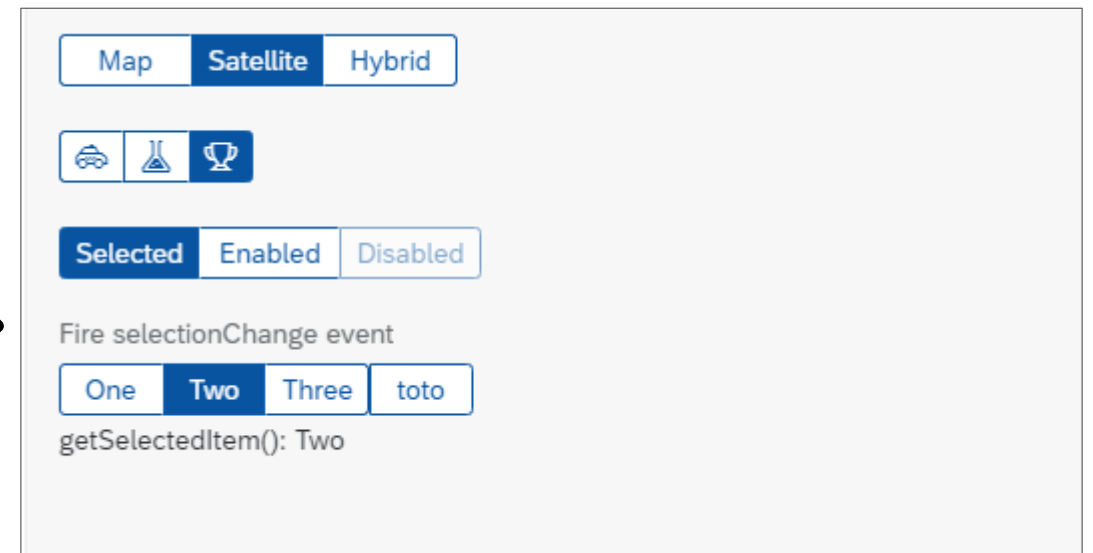Select one button: SAPUI5.pSegmentButton.oSegmentButton.set('totoKey')
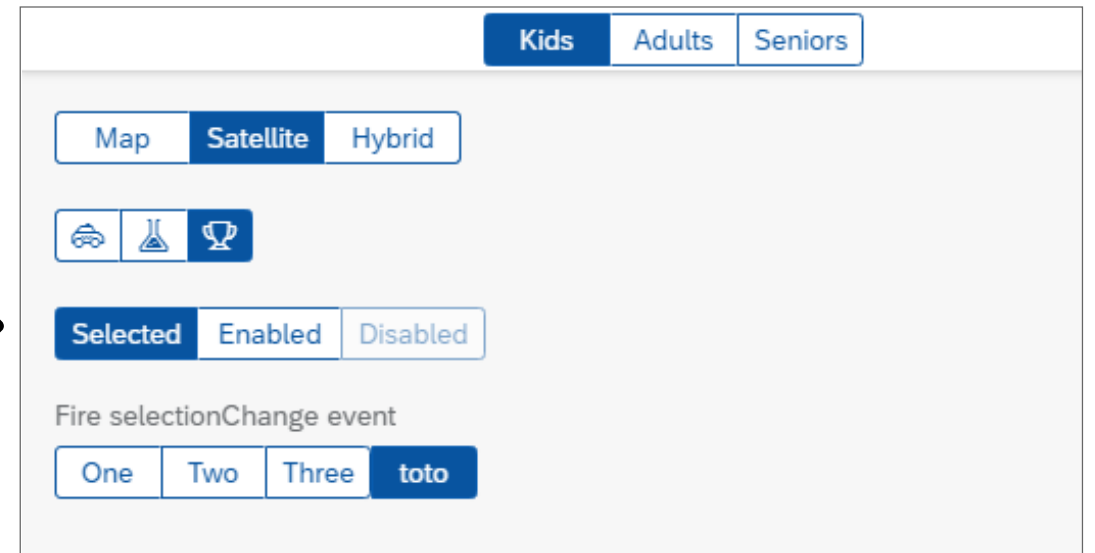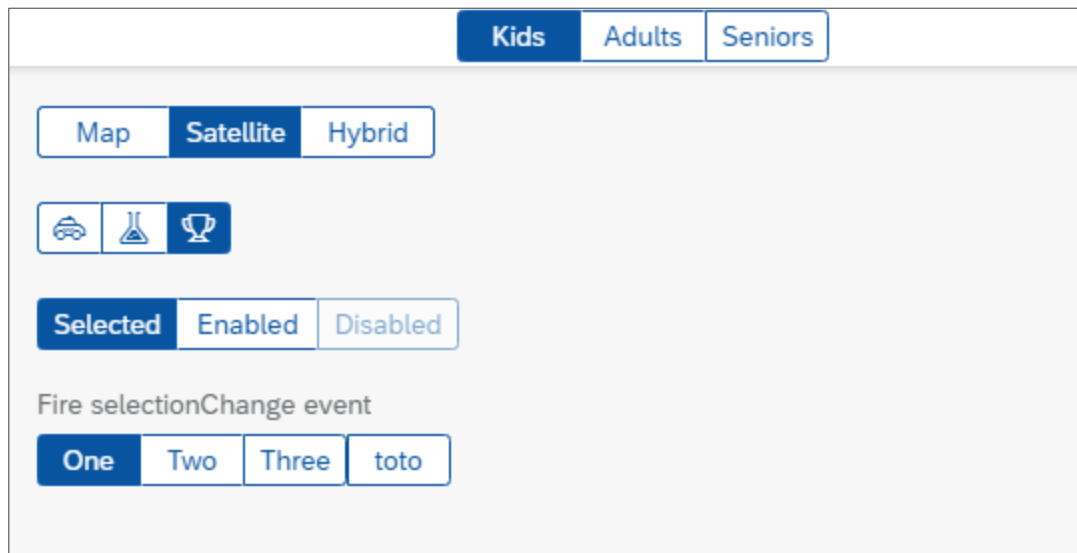
Segment button

Click one button: SAPUI5.pSegmentButton.oButton.click();

Calendar

Select a date: SAPUI5.pDatePicker.oDatePicker.set("5 May 1985");

Thank you.

Contact information:

open@sap.com

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