

Week 4: Further Topics

**Unit 2: SAP Connector – SAPUI5** 



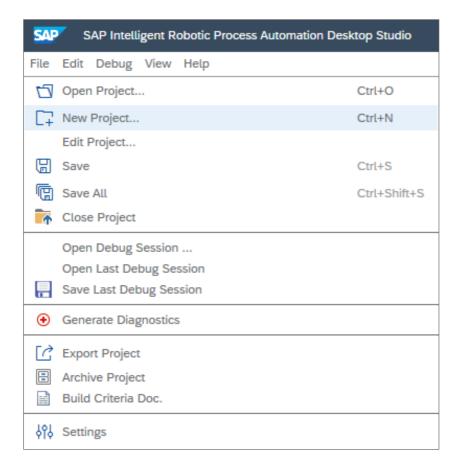


#### Introduction to SAPUI5 automation

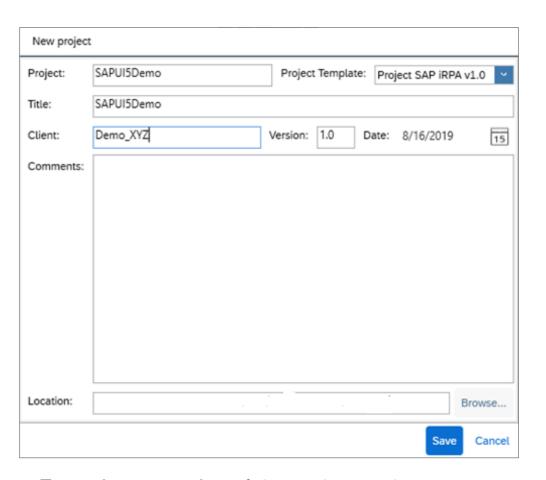
- SAPUI5 is a framework that includes a collection of libraries that you can use to build applications that run in a desktop or mobile browser – while only maintaining one code base.
- An SAPUI5 application requires specific attention to be managed by Desktop Agent.
- There is a separate library that implements SAPUI5 object-specific behaviors. It overrides the standard methods and adds extra ones.



## **Add SAPUI5 library**

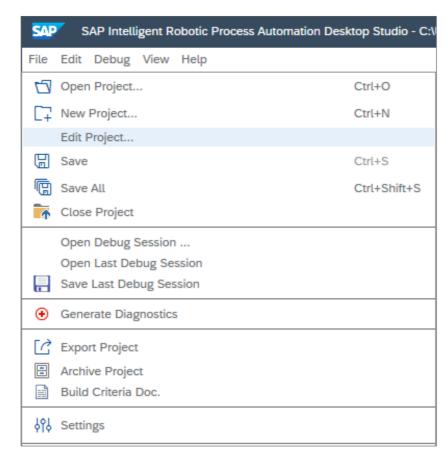


 Start Desktop Studio and in the menu bar, select File New Project

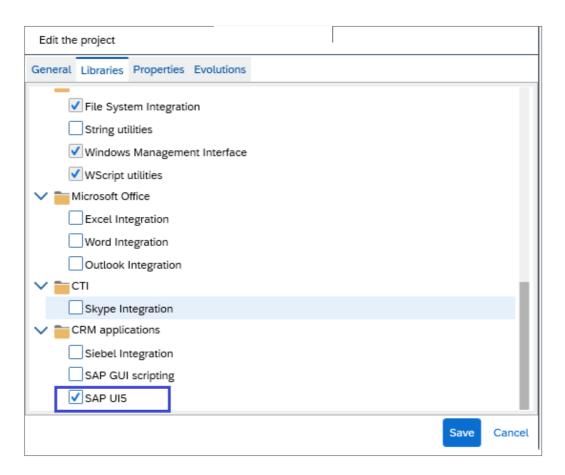


 Enter the properties of the project and click Save

## **Add SAPUI5 library**

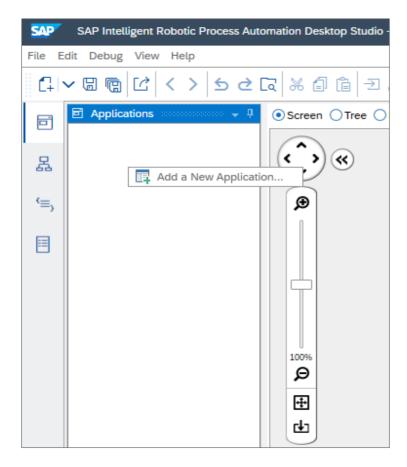


In the menu bar select File → Edit Project

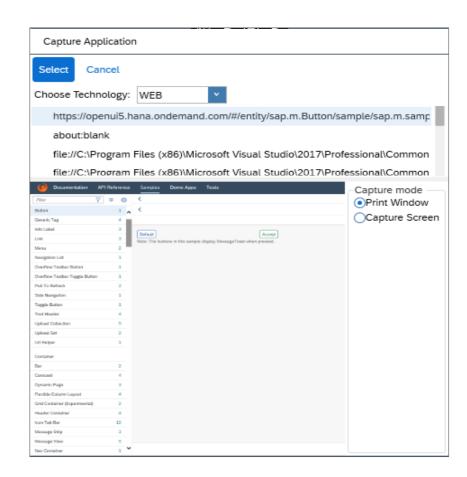


- Go to the Libraries tab
- Check the SAP UI5 box in the CRM applications section

## **Capture UI5 application**

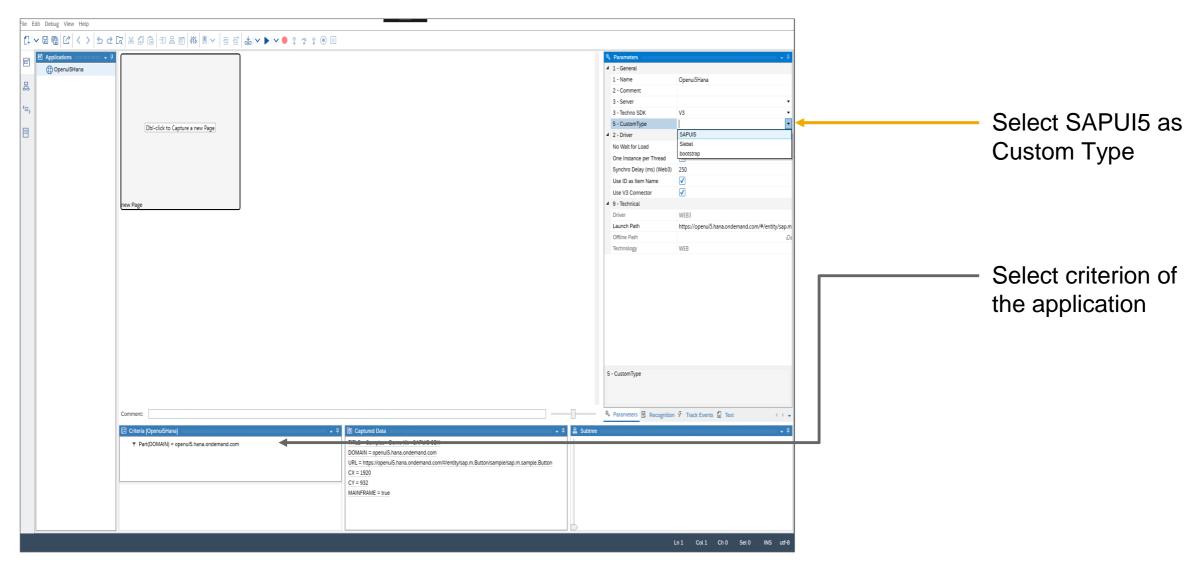


- Open UI5 page in Web browser
- Go back to Desktop Studio and in Explorer perspective, select Add a New Application

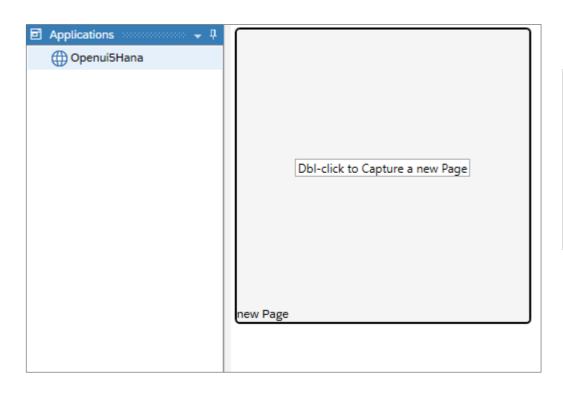


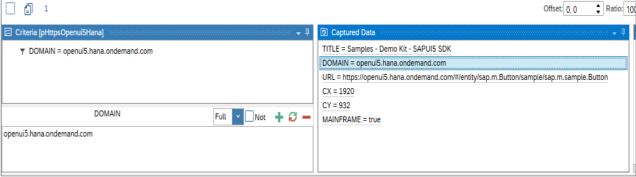
- Choose Technology: WEB
- Select UI5 page and choose Select
- You now have UI5 application in Explorer view

## **Custom type for UI5 application**



## **Capture page**

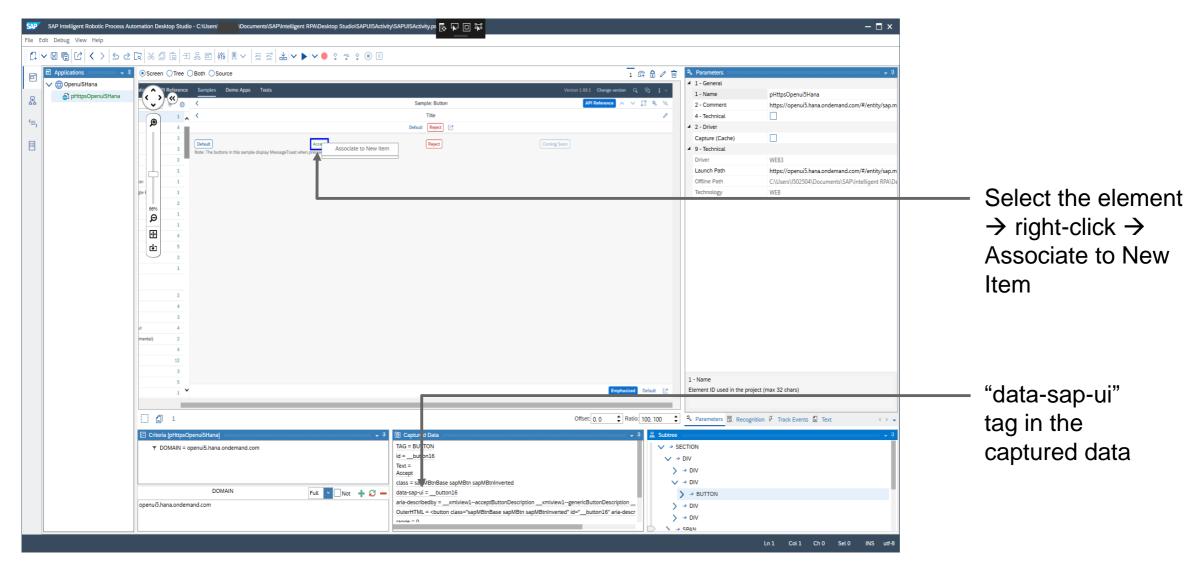




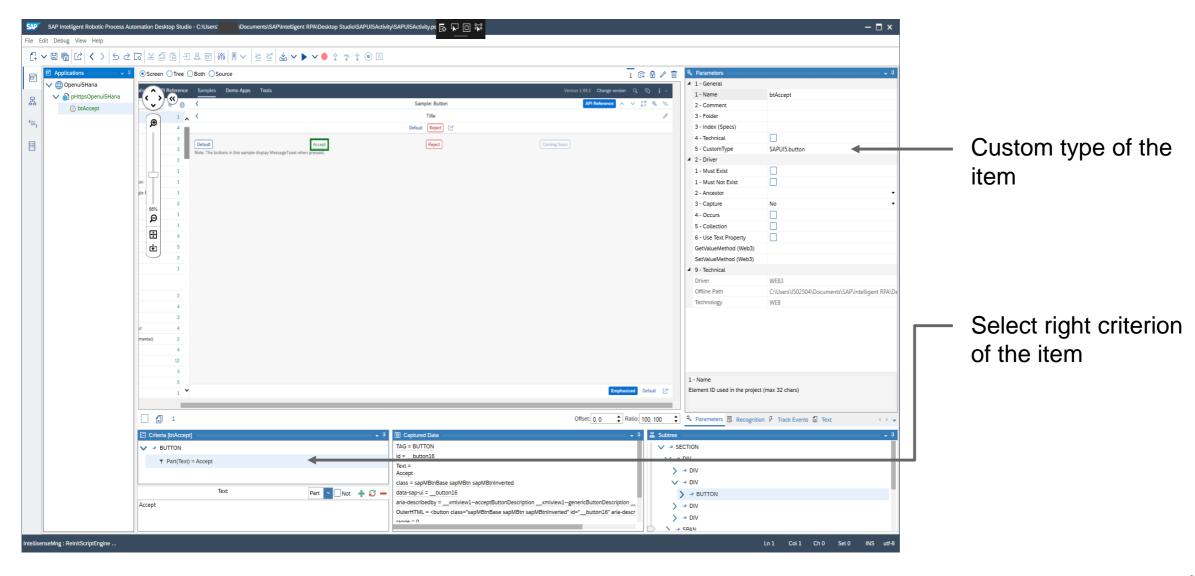
Double-click to capture a new page

Select the criterion of the page

#### **Declare UI5 control**



## **Custom type for UI5 application**



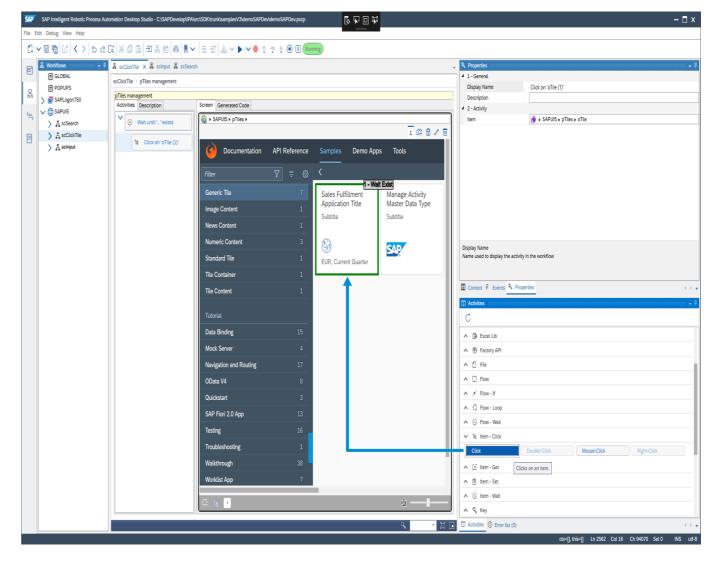
## **Available UI5 controls and respective supported methods**

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()

#### Add actions in UI5 Items

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

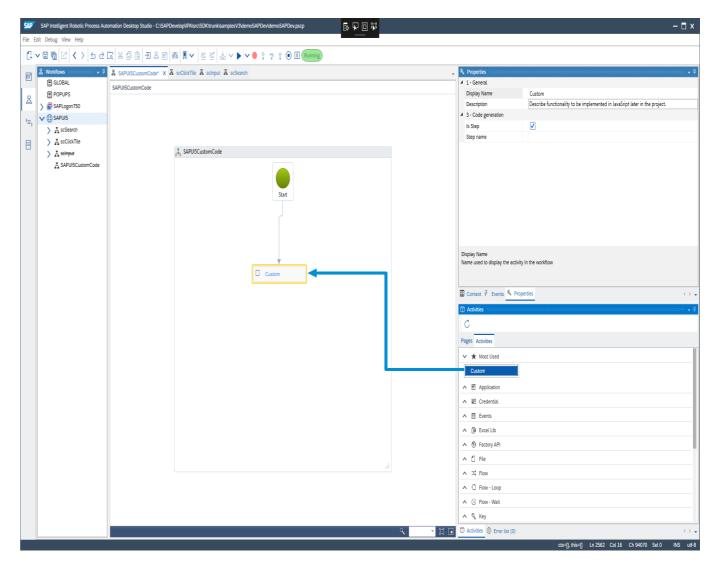
 Drag and drop the activity in the respective item



#### Add actions in UI5 Items

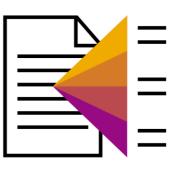
There are two ways you can add actions in the UI5 items to perform repetitive tasks.

- 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**

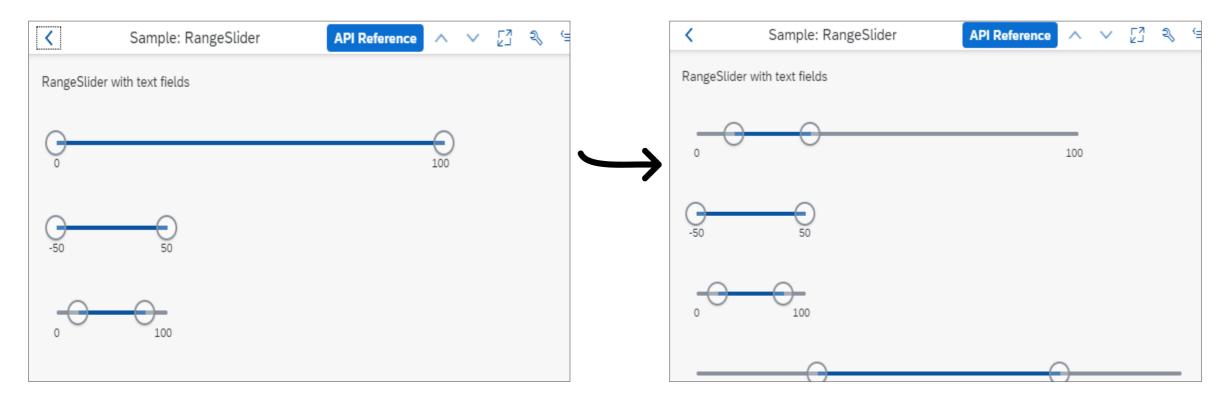




## **Implementation using Custom**

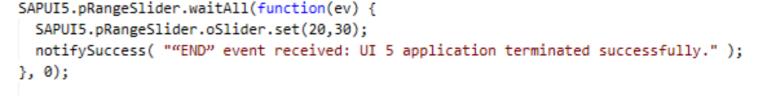
Slider: Set value with start and end range

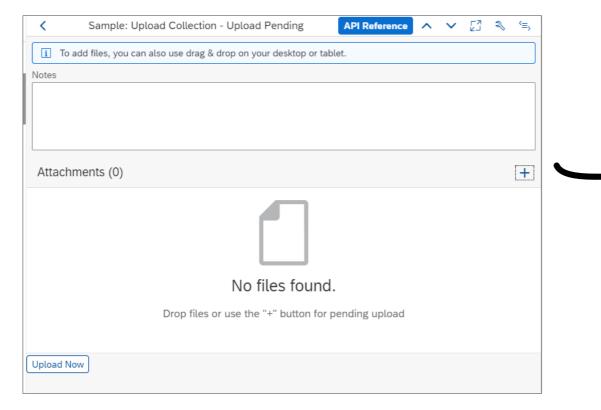
```
SAPUI5.pRangeSlider.waitAll(function(ev) {
   SAPUI5.pRangeSlider.oSlider.set(20,30);
   notifySuccess( ""END" event received: UI 5 application terminated successfully." );
}, 0);
```

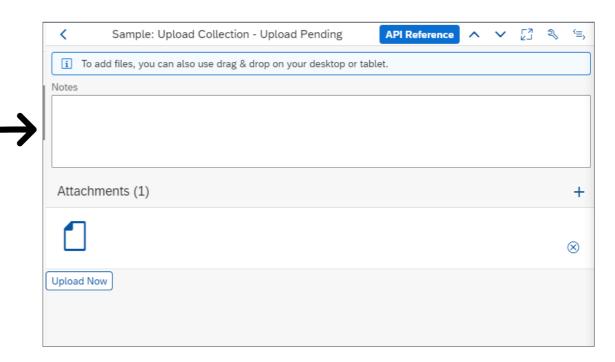


## **Implementation using Custom**

## Upload collection: to upload file in UI5 page



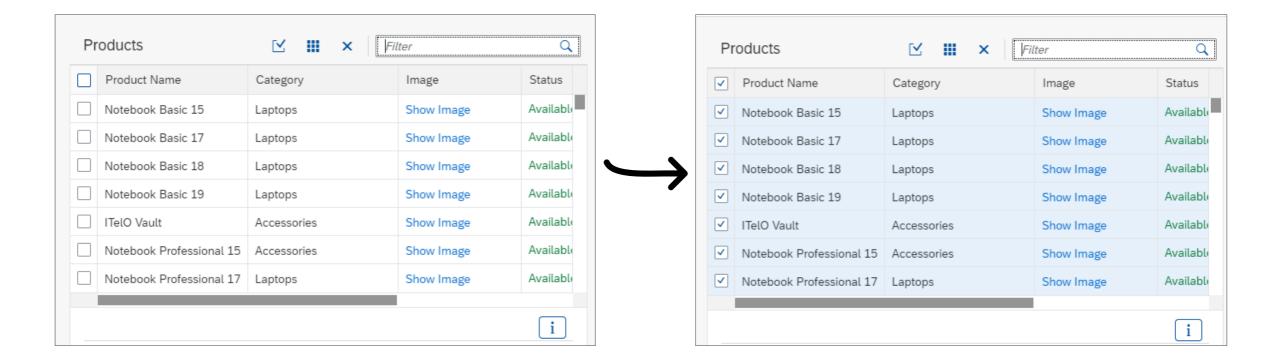




## **Table activity**

Select all the rows of the table:

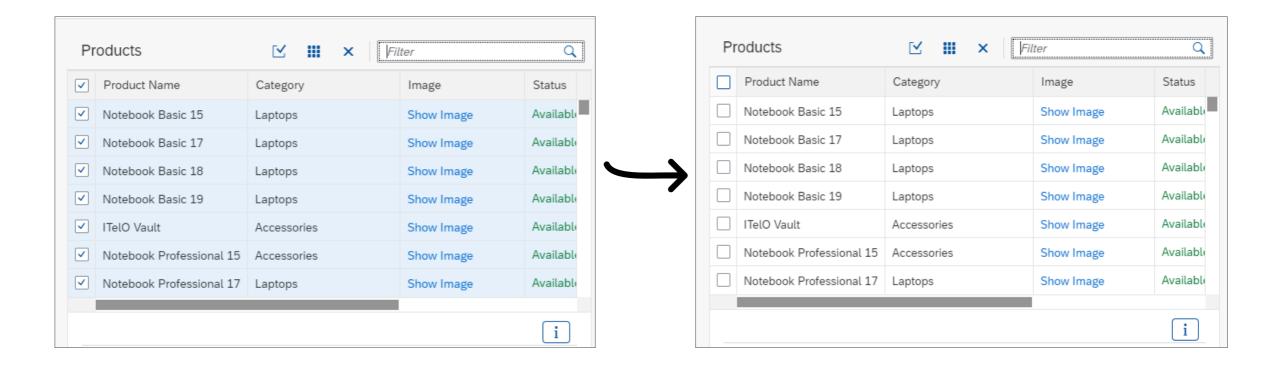
SAPUI5.pTableFilter.oTable.selectAll();



## **Table activity**

Deselect all the rows of the table:

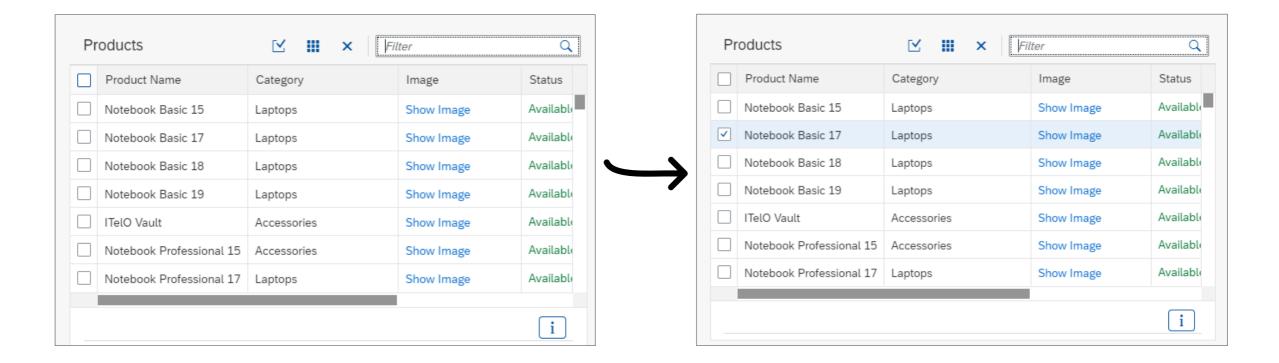
SAPUI5.pTableFilter.oTable.clearSelection();



## **Table activity**

Select a row:

SAPUI5.pTableFilter.oTable.setSelectedIndex(1)



## **Multiple input**

Set multiple input:

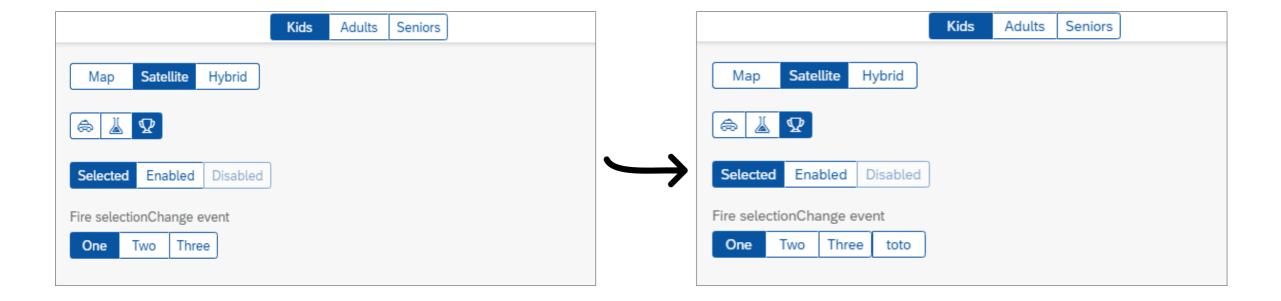
SAPUI5.pMultiInput.oMultiInput.set({text: "Test1", key:"Test1"}); SAPUI5.pMultiInput.oMultiInput.set({text: "Test2", key:"Test2"});



## **Segment button**

Add item:

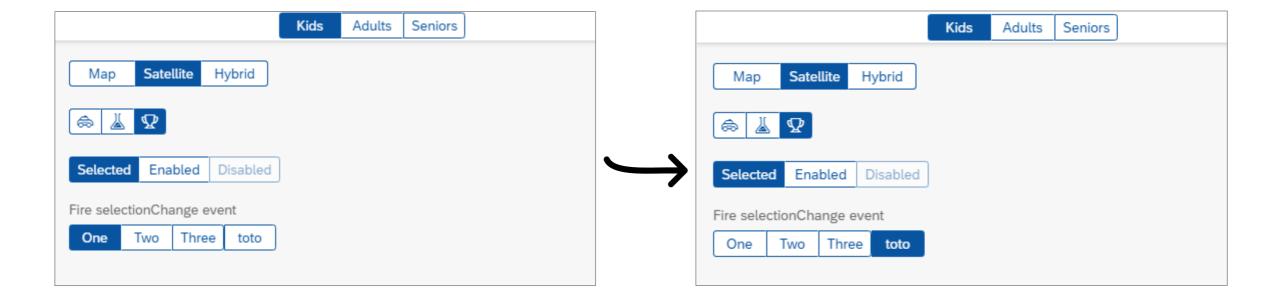
SAPUI5.pSegmentButton.oSegmentButton.addItem({text: "toto", key:"totoKey"});



## **Segment button**

Select one button:

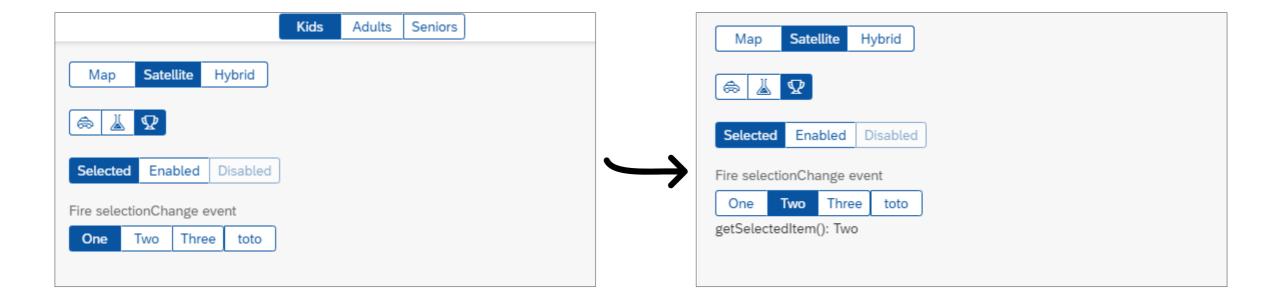
SAPUI5.pSegmentButton.oSegmentButton.set('totoKey')



## **Segment button**

Click one button:

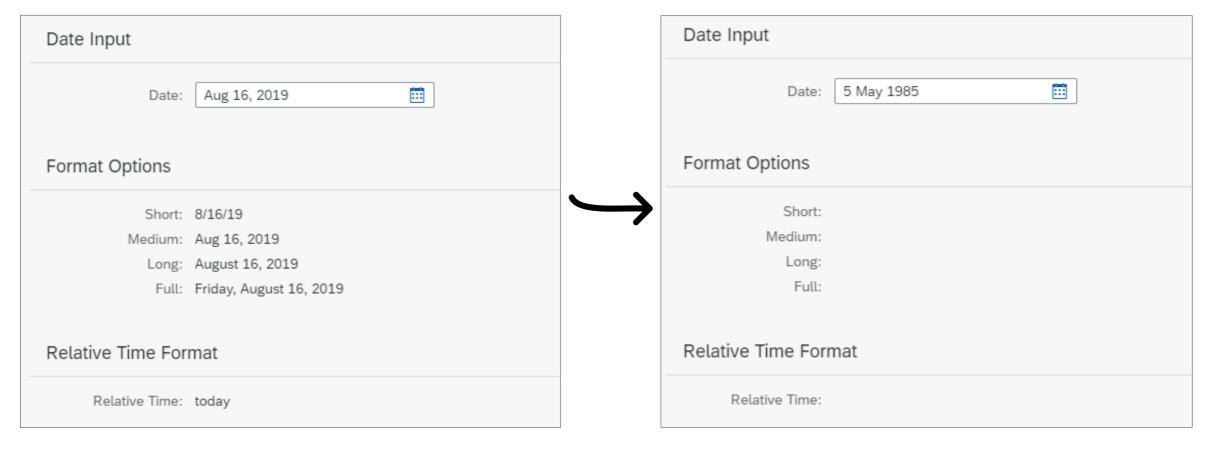
SAPUI5.pSegmentButton.oButton.click();



#### Calendar

#### Select a date:

## SAPUI5.pDatePicker.oDatePicker.set("5 May 1985");



# Thank you.

**Contact information:** 

open@sap.com





#### Follow all of SAP











#### www.sap.com/contactsap

© 2019 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

See www.sap.com/copyright for additional trademark information and notices.

