Certification Essentials – Extension Developer Certification.

Final – certifications (Recommended)

* **SAP Certified Development Associate - SAP BTP Extension Developer**
* **SAP Certified Development Associate - SAP HANA Cloud 1.0**
* **SAP Certified Development Associate - SAP Integration Suite**

**Integration suite** - <https://learning.sap.com/learning-journey/developing-with-sap-integration-suite>

**Extension suite –** **Topics** :

Cloud Application Programming Plays a role to solve business usecases

1. **In App Extension :** **Develop Applications Running on SAP BTP Using SAP HANA Cloud**

<https://learning.sap.com/learning-journey/develop-applications-running-on-sap-btp-using-sap-hana-cloud>

2. **Side- by Side : Build side-by-side extensions on SAP BTP**

<https://learning.sap.com/learning-journey/build-side-by-side-extensions-on-sap-btp>

Refresh CAP Learnings –

**Samples:**

<https://github.com/SAP-samples/cloud-cap-samples/tree/main>

install codetour extension in BAS for easy navigation.

use npm install for all the folders , followed by cds watch

* Hello - hello world ex
* Bookshop – reference one cds service (<https://developers.sap.com/tutorials/cp-apm-nodejs-create-service.html#d1bd1dc9-182f-4afd-b41f-766a621af482>)
* Common – (similar to formatter – allows to define f4 /dropdown values in Fiori app )
* Orders – (for table/list navigation/association / deep entity)
* Reviews – (feature of review – how to design odata using cds cap)
* Annotations – how to automate annotations in CAP ( to be discussed )

1. Documentation : <https://cap.cloud.sap/docs/advanced/fiori> 2. Need detailed documentation - FAQ )

* Bookstore – (app built using vue.js and Fiori as well ) userid – alice and pwd – blank
* Fiori – gives access to few apps generated based Fiori element- CAP annotations

**Real Time Usecase –**

<https://learning.sap.com/learning-journey/build-side-by-side-extensions-on-sap-btp>

SAP to Non-SAP:

Manufacture – exports all regions – US, Japan,india

SAP Data for US onpremise – in App extension

SAP Data for Japan onpremise

Export – Risks and mitigation App

Report App : What are the risks that can effect export ?

Side by Side Extension - when data from multiple regions needs to be collated in a single App for business benefit.

Internal API – sap.api.hub

External API- how to connect to external API .

Snippets 1 :

Snippet 2:

using RiskService from '../../srv/risk-service';

// Risk List Report Page

annotate RiskService.Risks with @(UI : {

HeaderInfo : {

TypeName : 'Risk',

TypeNamePlural : 'Risks',

Title : {

$Type : 'UI.DataField',

Value : title

},

Description : {

$Type : 'UI.DataField',

Value : descr

}

},

SelectionFields : [prio],

Identification : [{Value : title}],

// Define the table columns

LineItem : [

{Value : title},

{Value : miti\_ID},

{Value : owner},

{

Value : prio,

Criticality : criticality

},

{

Value : impact,

Criticality : criticality

},

],

});

// Risk Object Page

annotate RiskService.Risks with @(UI : {

Facets : [{

$Type : 'UI.ReferenceFacet',

Label : 'Main',

Target : '@UI.FieldGroup#Main',

}],

FieldGroup #Main : {Data : [

{Value : miti\_ID},

{Value : owner},

{

Value : prio,

Criticality : criticality

},

{

Value : impact,

Criticality : criticality

}

]},

});