j&s-soft GmbH
evolute your software

WKE 2016

HTML5 @ SAP

Webtechnologie als
strategische UI-Komponente
im SAP-Universum

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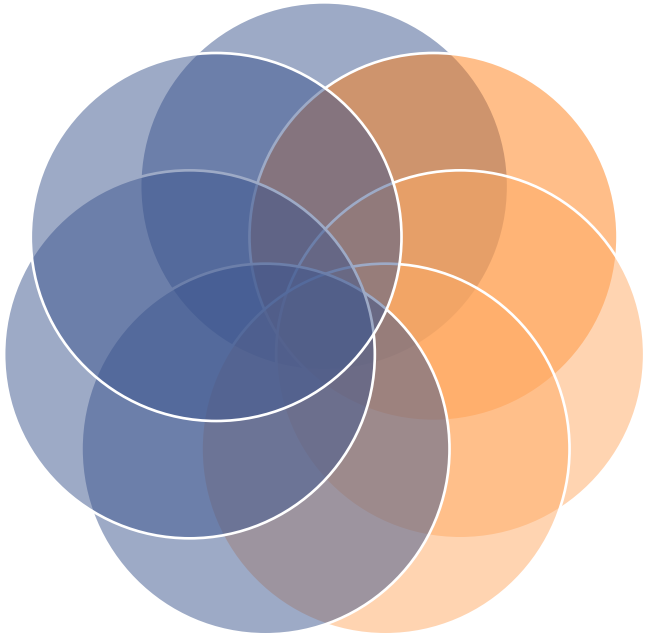
> SAP-Beratung mit Fokus Technologie und Innovationsszenarien

SAP Innovation
SAP Classic

Fiori, SAPUI5

SAP Gateway

SAP Netweaver, PI



HANA Cloud Platform, SuccessFactors

SAP Web Dynpro, ABAP

SAP HANA

SAP Interactive Forms

Cloud
Solutions

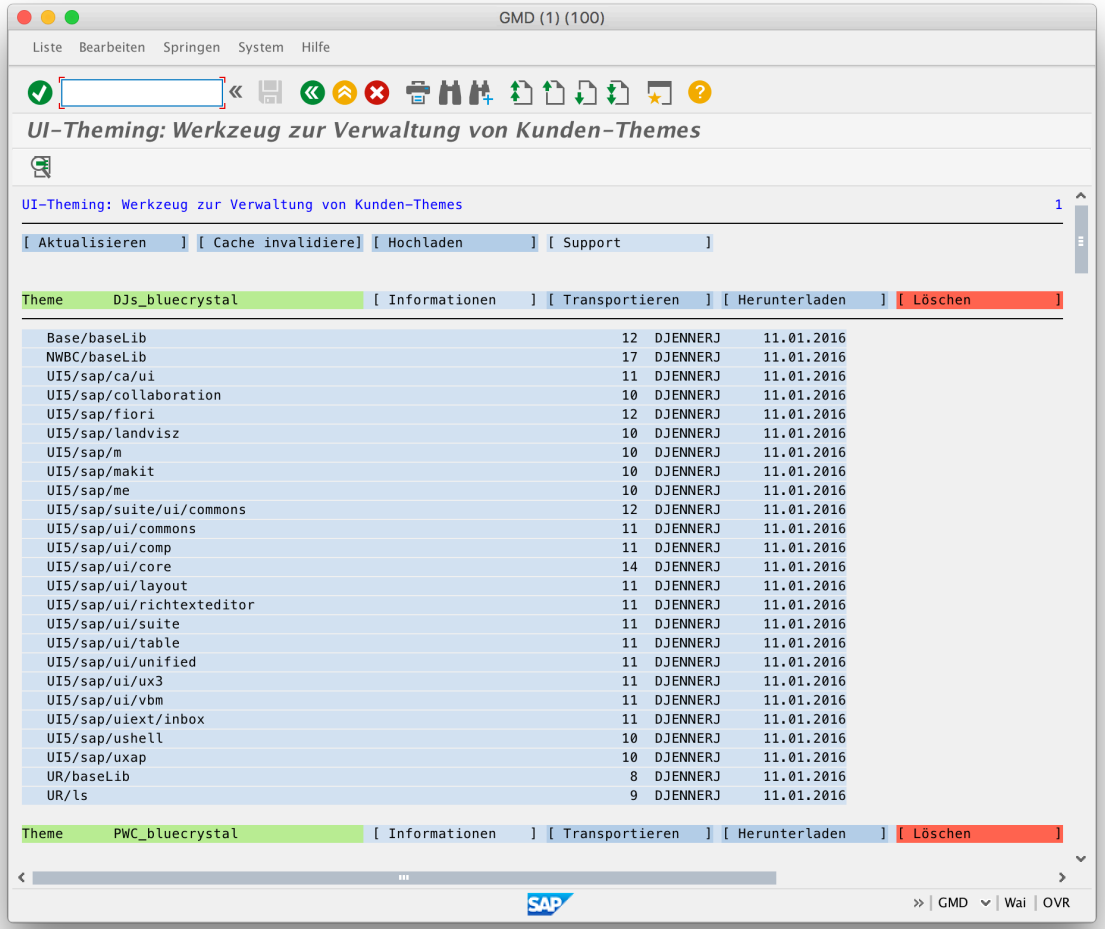
User **Experience Design** Services

Value of UX at your company

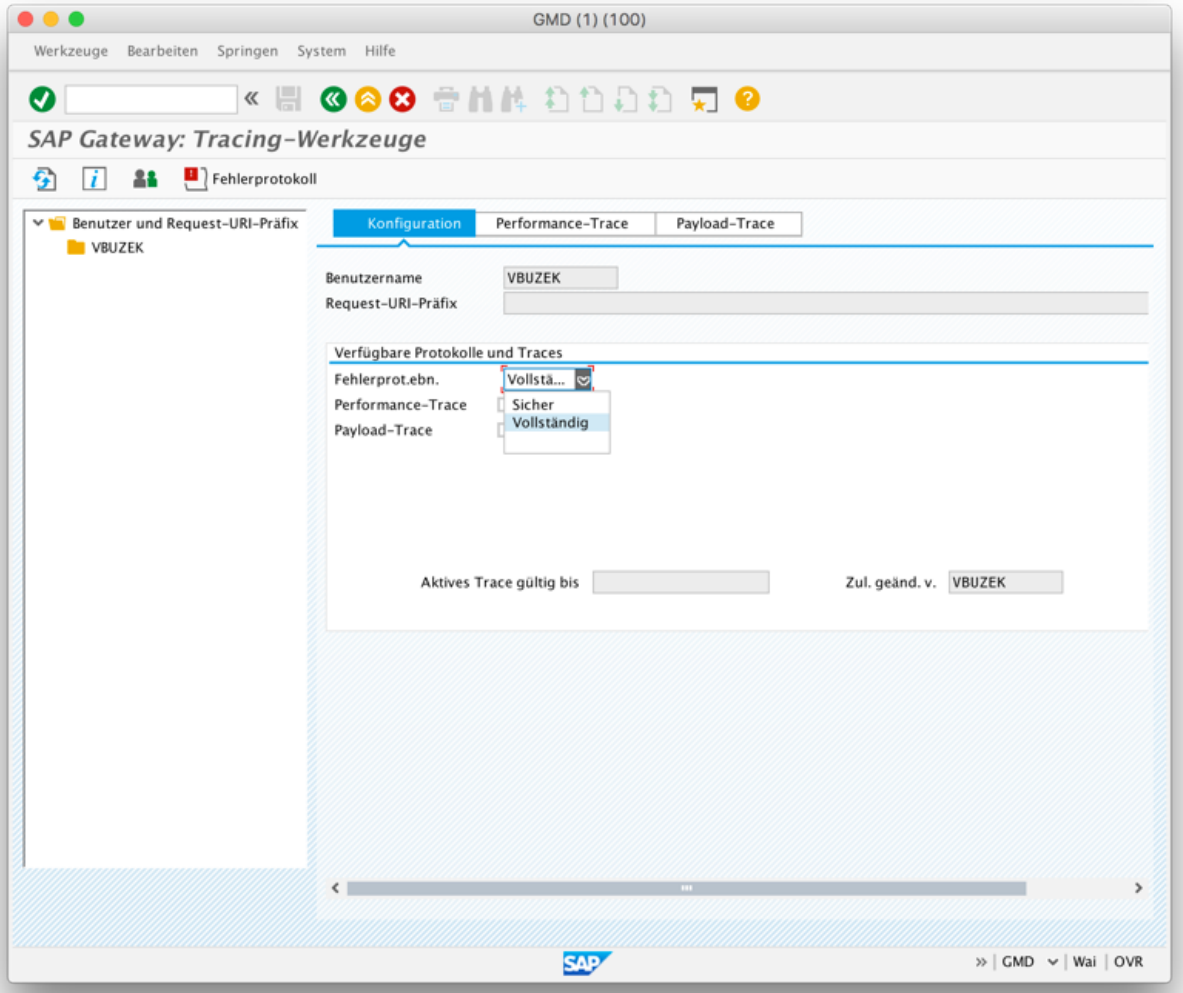
DESIGN
& CO-INNOVATION
CENTER

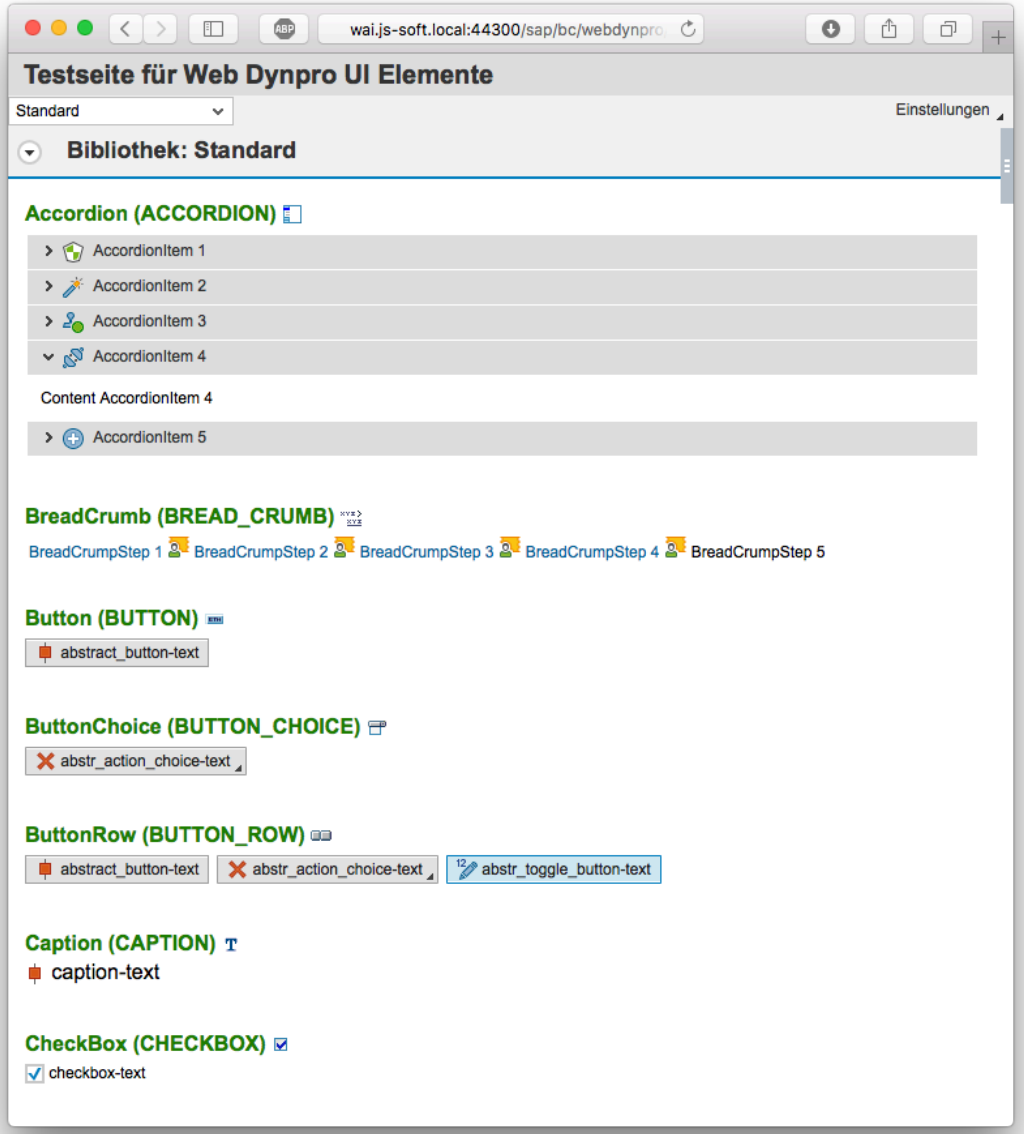
DISCOVER SIMPLE
SAP

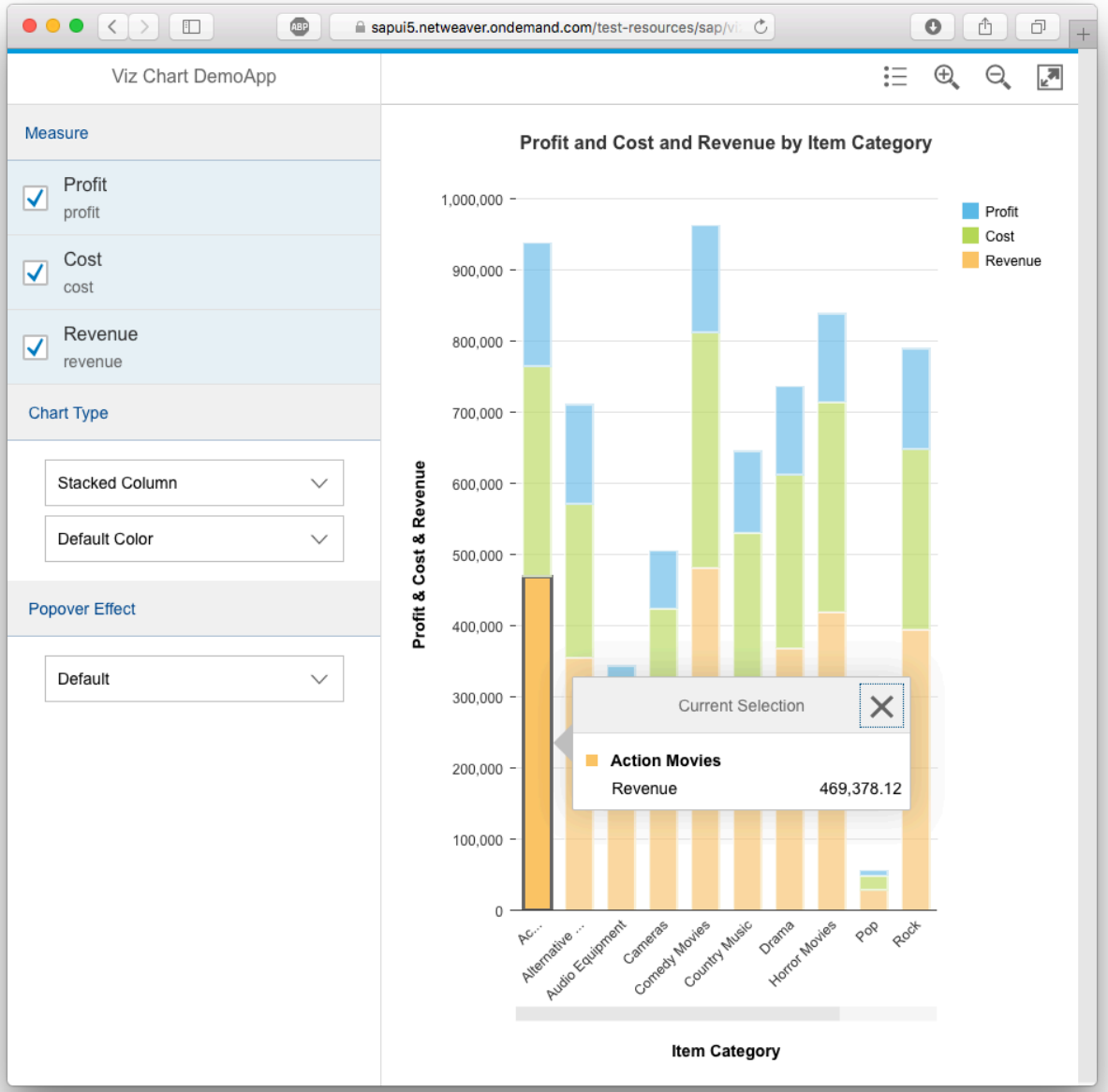
Report


GMD (1) (100)
Liste Bearbeiten Springen System Hilfe
UI-Theming: Werkzeug zur Verwaltung von Kunden-Themes
UI-Theming: Werkzeug zur Verwaltung von Kunden-Themes 1
[Aktualisieren] [Cache invalidiere] [Hochladen] [Support]
Theme DJs_bluecrystal [Informationen] [Transportieren] [Herunterladen] [Löschen]
Base/baseLib 12 DJENNERJ 11.01.2016
NWBC/baseLib 17 DJENNERJ 11.01.2016
UI5/sap/ca/ui 11 DJENNERJ 11.01.2016
UI5/sap/collaboration 10 DJENNERJ 11.01.2016
UI5/sap/fiori 12 DJENNERJ 11.01.2016
UI5/sap/landvisz 10 DJENNERJ 11.01.2016
UI5/sap/m 10 DJENNERJ 11.01.2016
UI5/sap/makit 10 DJENNERJ 11.01.2016
UI5/sap/me 10 DJENNERJ 11.01.2016
UI5/sap/suite/ui/commons 12 DJENNERJ 11.01.2016
UI5/sap/ui/commons 11 DJENNERJ 11.01.2016
UI5/sap/ui/comp 11 DJENNERJ 11.01.2016
UI5/sap/ui/core 14 DJENNERJ 11.01.2016
UI5/sap/ui/layout 11 DJENNERJ 11.01.2016
UI5/sap/ui/richtexteditor 11 DJENNERJ 11.01.2016
UI5/sap/ui/suite 11 DJENNERJ 11.01.2016
UI5/sap/ui/table 11 DJENNERJ 11.01.2016
UI5/sap/ui/unified 11 DJENNERJ 11.01.2016
UI5/sap/ui/ux3 11 DJENNERJ 11.01.2016
UI5/sap/ui/vbm 11 DJENNERJ 11.01.2016
UI5/sap/uiext/inbox 11 DJENNERJ 11.01.2016
UI5/sap/ushell 10 DJENNERJ 11.01.2016
UI5/sap/uxap 10 DJENNERJ 11.01.2016
UR/baseLib 8 DJENNERJ 11.01.2016
UR/ls 9 DJENNERJ 11.01.2016
Theme PWC_bluecrystal [Informationen] [Transportieren] [Herunterladen] [Löschen]
GMD Wai OVR

Dynpro

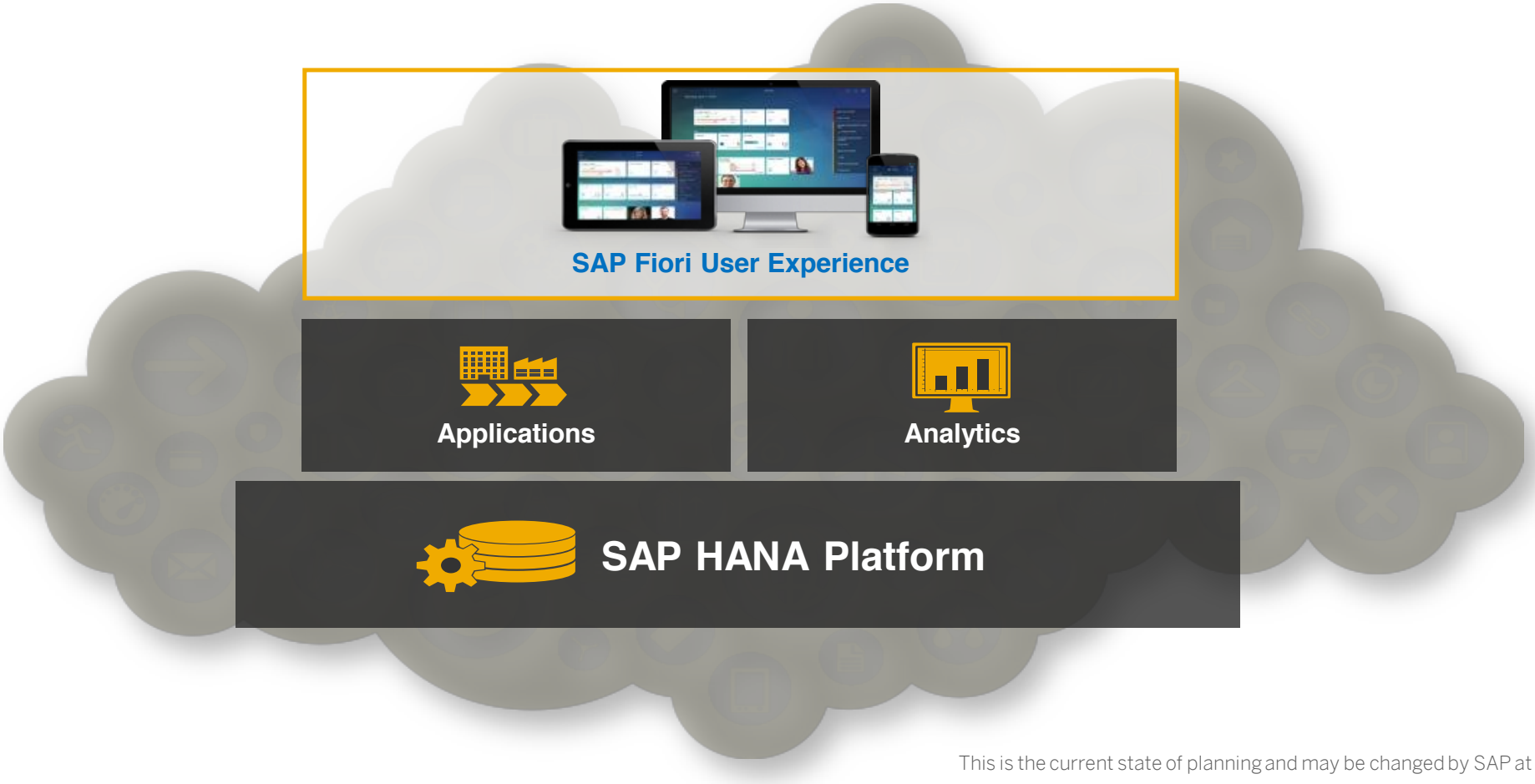

GMD (1) (100)
Werkzeuge
Bearbeiten
Springen
System
Hilfe
SAP Gateway: Tracing-Werkzeuge
Fehlerprotokoll
Benutzer und Request-URI-Präfix
VBUZEK
Konfiguration
Performance-Trace
Payload-Trace
Benutzername
VBUZEK
Request-URI-Präfix
Verfügbare Protokolle und Traces
Fehlerprot.ebn.
Vollstä...
Performance-Trace
Payload-Trace
Sicher
Vollständig
Aktives Trace gültig bis
Zul. geänd. v.
VBUZEK
GMD
Wai
OVR


wai.js-soft.local:44300/sap/bc/webdynpro
Testseite für Web Dynpro UI Elemente
Standard
Einstellungen
Bibliothek: Standard
Accordion (ACCORDION)
AccordionItem 1
AccordionItem 2
AccordionItem 3
AccordionItem 4
Content AccordionItem 4
AccordionItem 5
BreadCrumb (BREAD_CRUMB)
BreadCrumpStep 1
BreadCrumpStep 2
BreadCrumpStep 3
BreadCrumpStep 4
BreadCrumpStep 5
Button (BUTTON)
abstract_button-text
ButtonChoice (BUTTON_CHOICE)
abstr_action_choice-text
ButtonRow (BUTTON_ROW)
abstract_button-text
abstr_action_choice-text
abstr_toggle_button-text
Caption (CAPTION)
caption-text
CheckBox (CHECKBOX)
checkbox-text


sapui5.netweaver.ondemand.com/test-resources/sap/vi
Viz Chart DemoApp
Measure
Profit
profit
Cost
cost
Revenue
revenue
Chart Type
Stacked Column
Default Color
Popover Effect
Default
Profit and Cost and Revenue by Item Category
Profit
Cost
Revenue
1,000,000
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Profit & Cost & Revenue
Current Selection
Action Movies
Revenue
469,378.12
Ac...
Alternative ...
Audio Equipment
Cameras
Comedy Movies
Country Music
Drama
Horror Movies
Pop
Rock
Item Category

Unified UX Direction for all SAP Software

All applications & UI technologies to converge to the SAP Fiori UX



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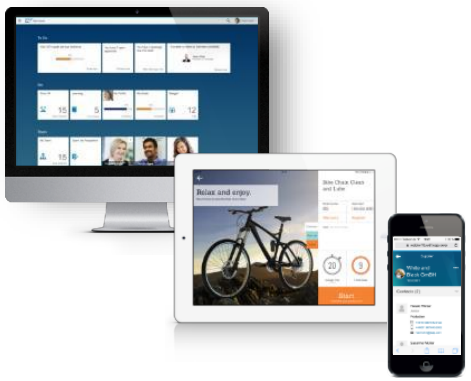
The SAP User Experience Strategy

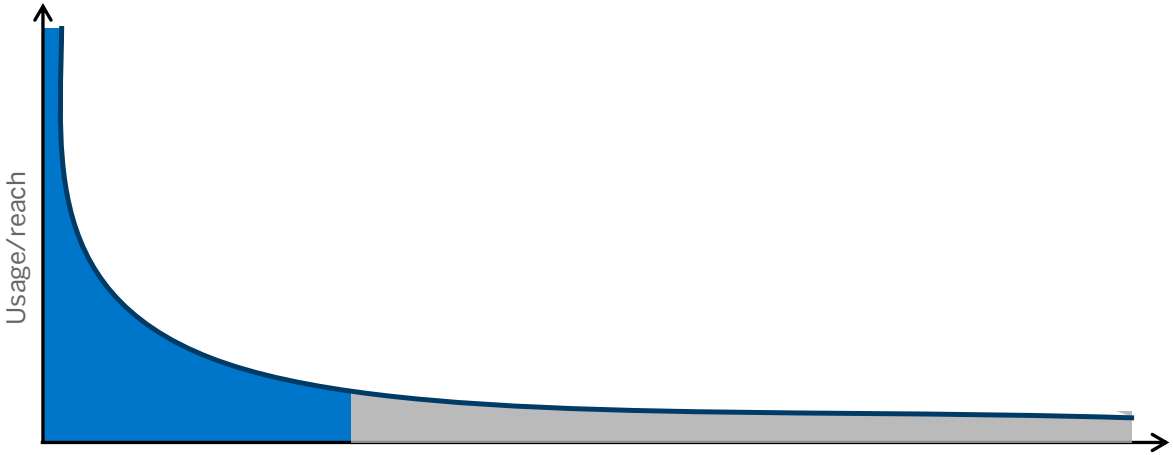
Evolution

New Applications

Existing Applications

SAP Fiori UX





NEW

RENEW

ENABLE

UX Design Services

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Public

(SAP|Open) UI5

Sinon.JS

Blanket.JS

OS X: 7+
iOS >8

Android
Windows

9+

* garantierter Support "sap.m"

>> View

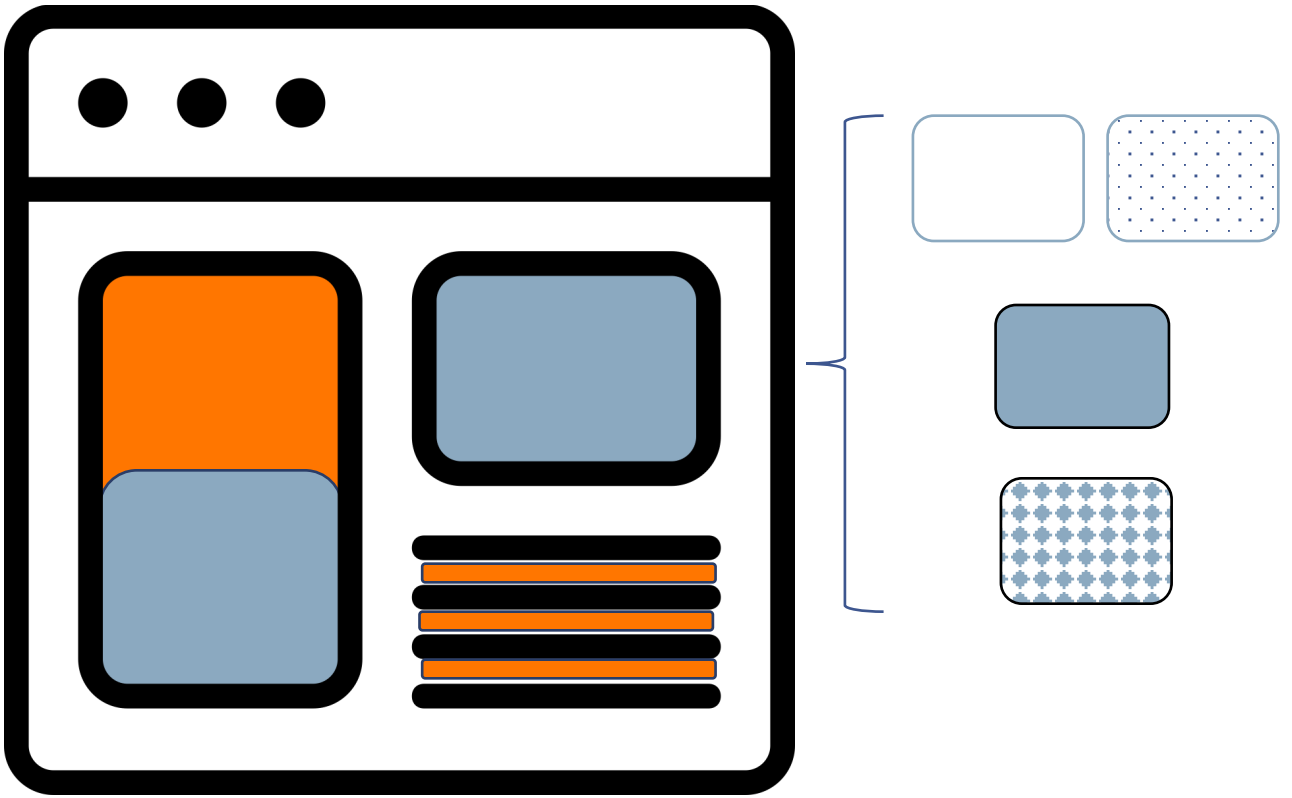
```
<mvc:View xmlns="sap.m">
   <Text text="Hello WKE2016!" />
</mvc:View>
```

>> Controller

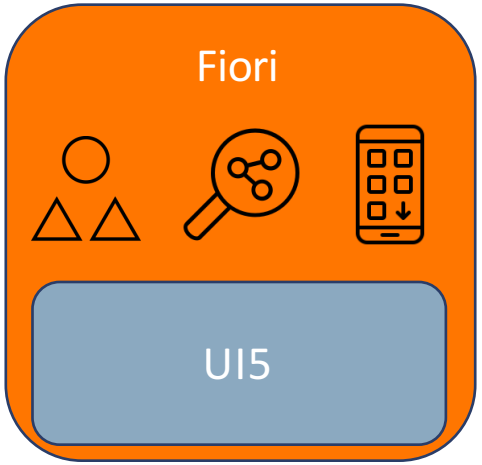
```
sap.ui.define([
    "sap/ui/core/mvc/Controller"
], function (Controller) {
    return Controller.extend("sap.xm.controller.main", {

        /* JS controller logic here */

    })
});
```

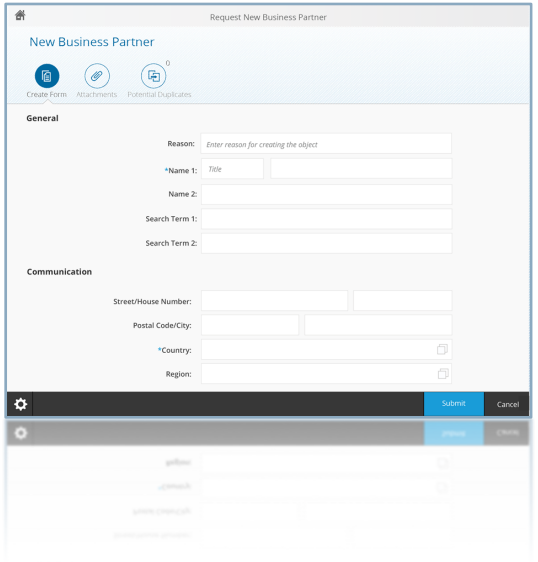
>> Model

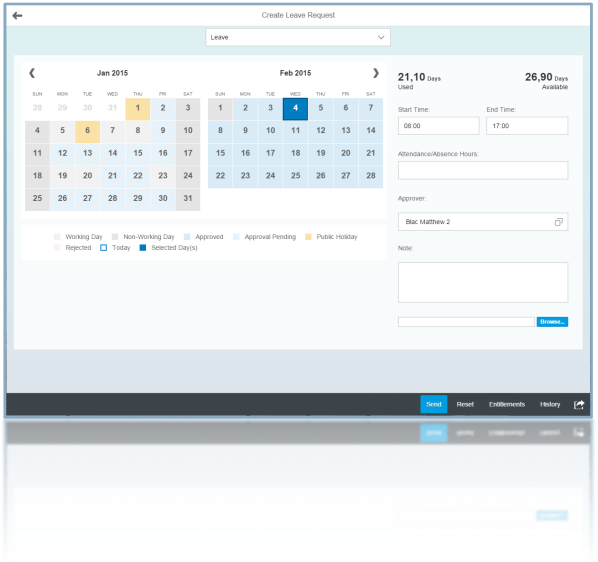
```
var oDataModel = new sap.ui.model.odata.ODataModel(sEndPoint);
```

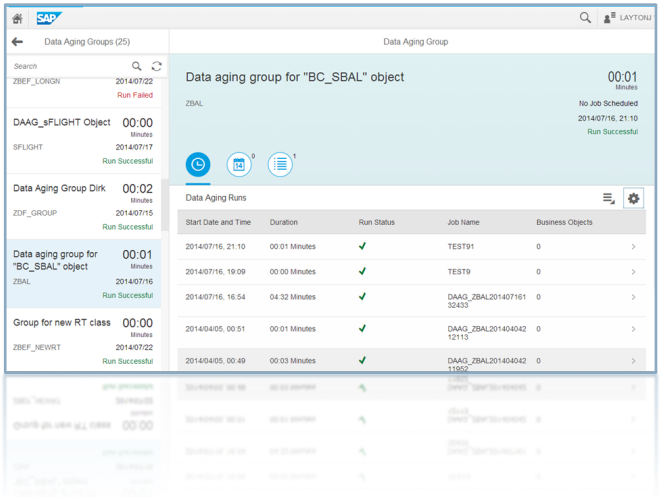


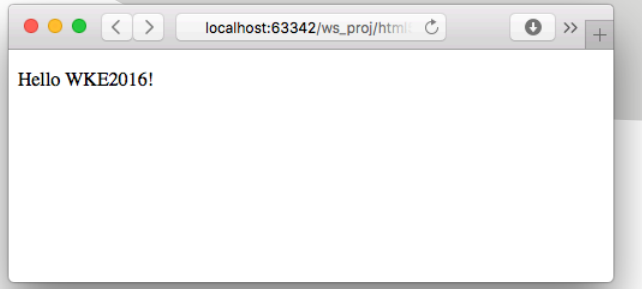
UI5 & Fiori


Fiori
UI5

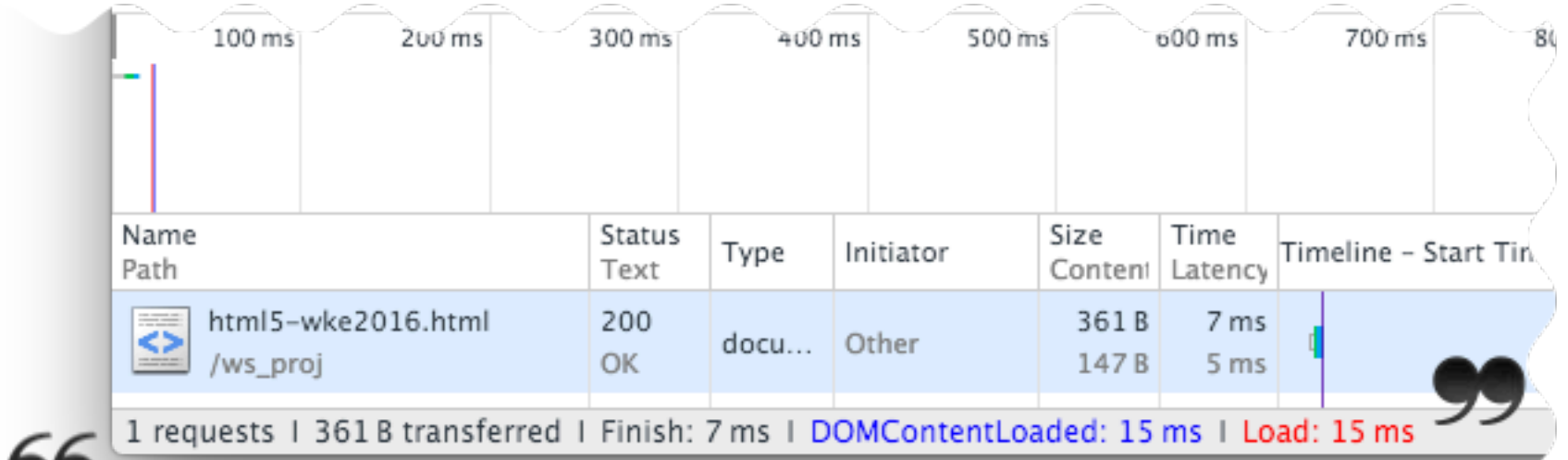

Request New Business Partner
New Business Partner
Create Form
Attachments
Potential Duplicates
General
Reason:
Enter reason for creating the object
*Name 1:
Title
Name 2:
Search Term 1:
Search Term 2:
Communication
Street/House Number:
Postal Code/City:
*Country:
Region:
Submit
Cancel


Create Leave Request
Leave
Jan 2015
Feb 2015
21,10 Days Used
26,90 Days Available
Start Time:
End Time:
08:00
17:00
Attendance/Absence Hours:
Approver:
Blac Matthew 2
Note:
Working Day
Non-Working Day
Approved
Approval Pending
Public Holiday
Rejected
Today
Selected Day(s)
Send
Reset
Entitlements
History


Data Aging Groups (25)
Data Aging Group
Data aging group for "BC_SBAL" object
00:01
Minutes
No Job Scheduled
2014/07/16, 21:10
Run Successful
Data Aging Runs
Start Date and Time
Duration
Run Status
Job Name
Business Objects
DAAG_SFLIGHT Object
Data Aging Group Dirk
Group for new RT class



HTML5 Skelett



"Weigh in"

HTML5 vs. Web Dynpro vs. UI5

Web Dynpro

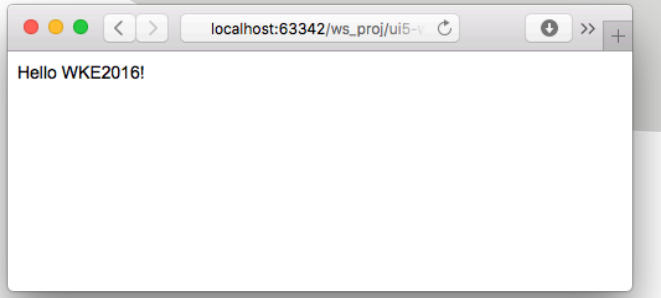
200 ms 400 ms 600 ms 800 ms 1000 ms 1200 ms 1400 ms 1600 ms 1800 ms 20

Name	Status	Type	Initiator	Size	Time	Timeline – Start Time
z_vb_wke2016	200	docu...	Other	2.4 KB	96 ms	1.50 s
standards.css	200	styles...	z_vb_wke2016:1	53.5 KB	135 ms	
do relax.js?0BAA23586C15	200	script	z_vb_wke2016:1	1.6 KB	140 ms	
lightspeed.js?0BAA23586C15	200	script	z_vb_wke2016:1	111 KB	221 ms	
PopupManager.js?0BAA23586C...	200	xhr	lightspeed.js?0BAA...	4.6 KB	96 ms	
IHub.js?0BAA23586C15	200	xhr	lightspeed.js?0BAA...	1.3 KB	55 ms	
messagebundle_en.properties?...	200	xhr	lightspeed.js?0BAA...	8.2 KB	97 ms	
LoadingAnimation.js?0BAA235...	200	xhr	lightspeed.js?0BAA...	941 B	55 ms	
LayeredControl.js?0BAA23586C...	200	xhr	lightspeed.js?0BAA...	3.5 KB	103 ms	
z_vb_wke2016?sap-contextid=...	200	xhr	lightspeed.js?0BAA...	1.7 KB	145 ms	

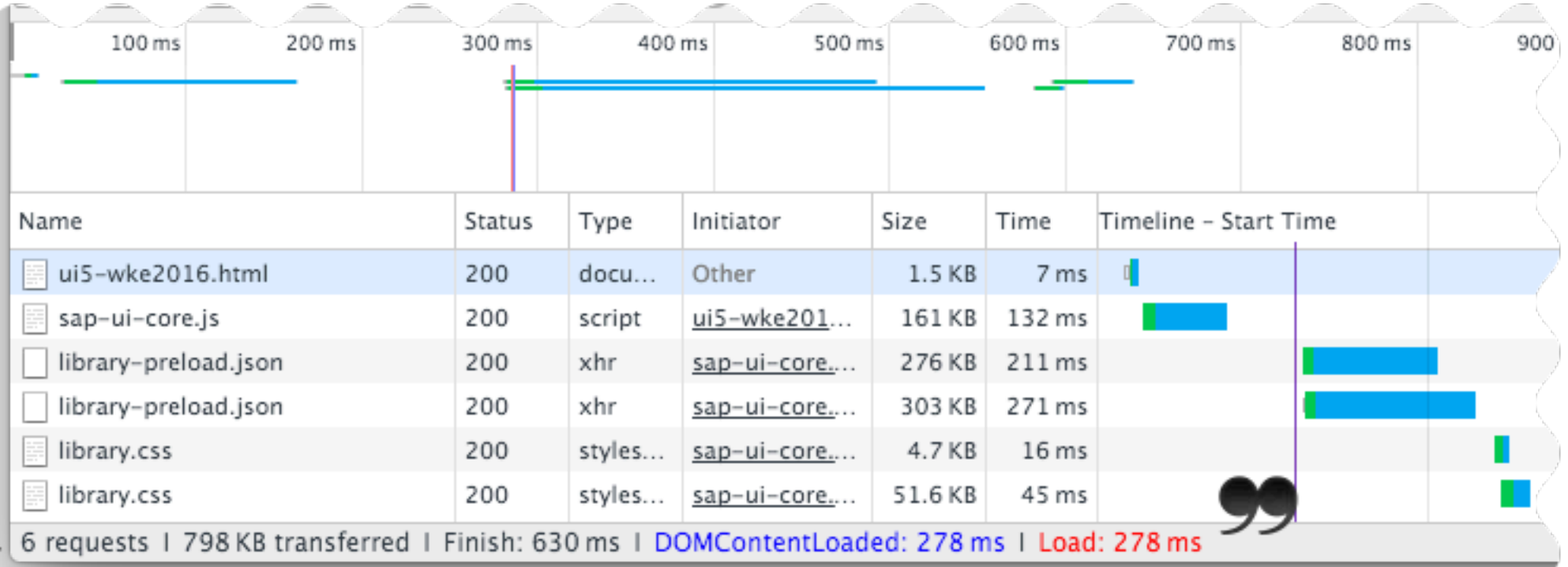
21 requests | 218 KB transferred | Finish: 1.69 s | DOMContentLoaded: 443 ms | Load: 1.37 s

"Weigh in"

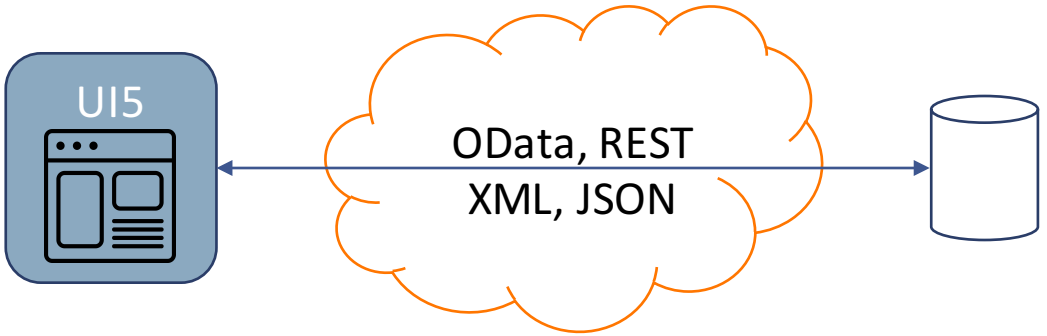
HTML5 vs. Web Dynpro vs. UI5



UI5 WebApp



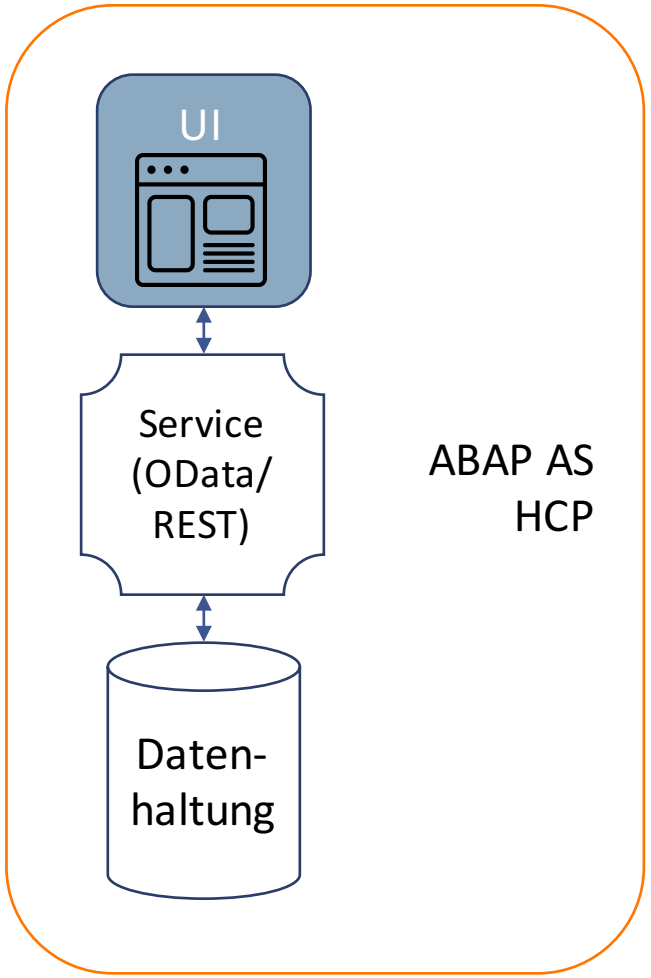
```
<!DOCTYPE html>
<html lang="de-DE" class="sap-desktop sapUiTheme-sap_bluecrystal sapUiMedia-Std-Desktop
sapUiMedia-StdExt-Desktop" data-sap-ui-browser="cr48" data-sap-ui-os="mac" data-sap-ui-animation="on">
    <head>
        <meta charset="UTF-8">
        <title>
            WKE 2016
        </title>
        <link type="text/css" rel="stylesheet"
href="https://sapui5.hana.ondemand.com/resources/sap/ui/core/themes/sap_bluecrystal/library.css"
id="sap-ui-theme-sap.ui.core" data-sap-ui-ready="true">
        <link type="text/css" rel="stylesheet"
href="https://sapui5.hana.ondemand.com/resources/sap/m/themes/sap_bluecrystal/library.css"
id="sap-ui-theme-sap.m" data-sap-ui-ready="true">
    </head>
    <body id="ui5" role="application" data-sap-ui-area="ui5">
        <div aria-hidden="true" id="sap-ui-preserve" class="sapUiHidden sapUiForcedHidden"
style="width: 0px; height: 0px; overflow: hidden;"></div>
        <div id="__xmlview0" data-sap-ui="__xmlview0" data-sap-ui-preserve="__xmlview0"
style="width:100%" class="sapUiView sapUiXMLView">
            <span id="__text0" data-sap-ui="__text0" class="sapMText sapMTextMaxWidth
sapUiSelectable" style="text-align:left">Hello WKE2016!</span>
        </div>
    </body>
</html>
```



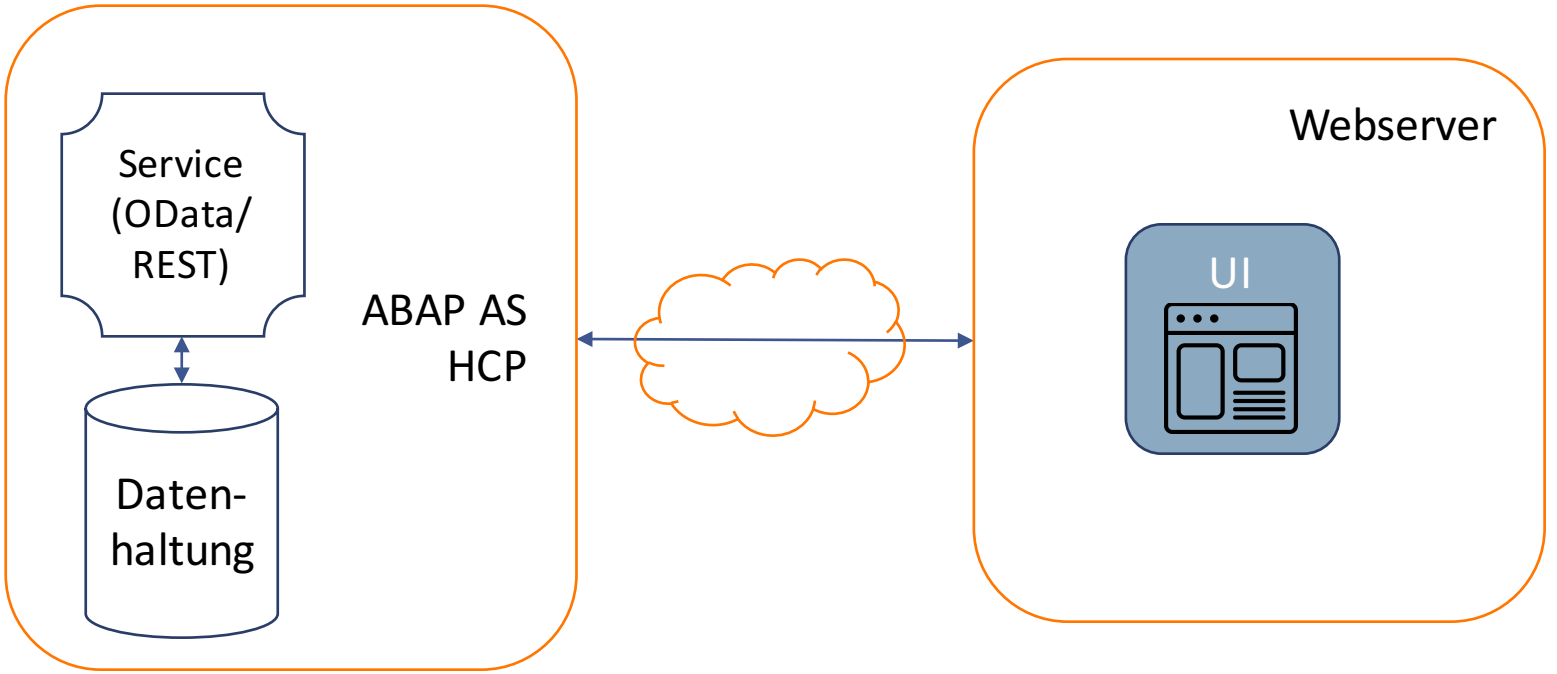

```
GET https://wke2016.de/participants?$filter=
    FirstName eq Volker
```

```
{
   value:[
      {
         "FirstName":"Volker",
         "LastName": "Buzek"
      },
      {
         "FirstName":"Daniel",
         "LastName": "de West"
      },
      ...
   ]
}
```

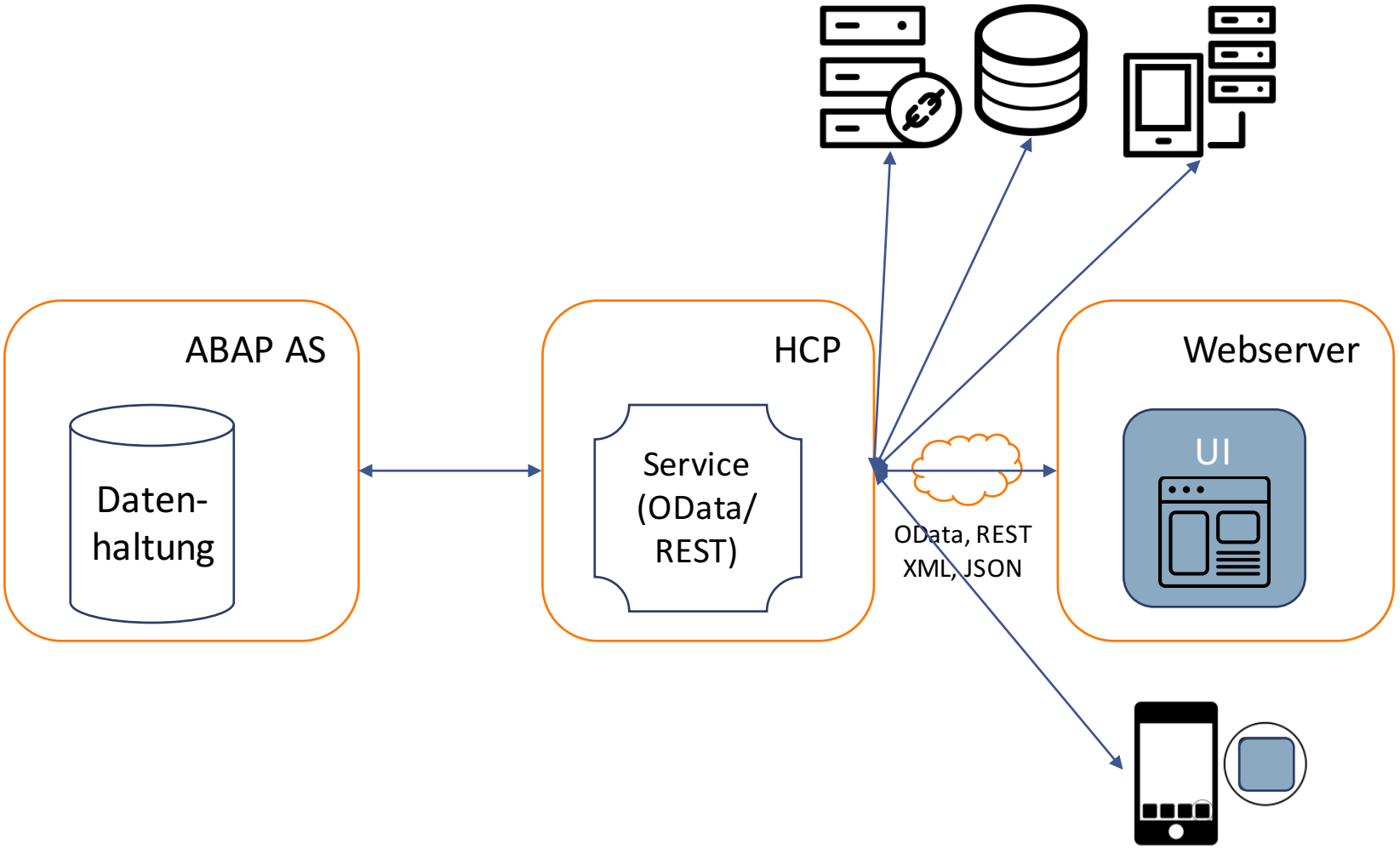
Architektur



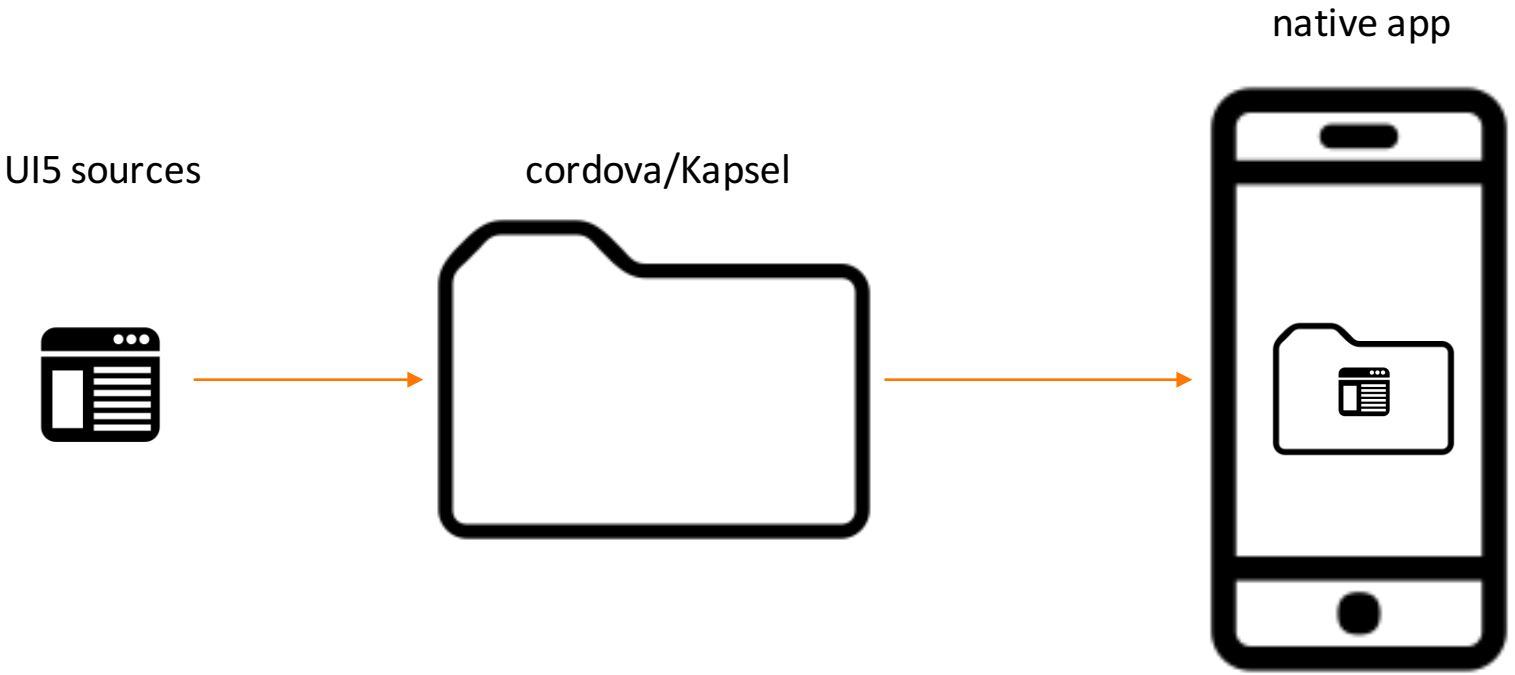
Architektur



Architektur



"Kapsel": reuse UI5



WebApp

Wiederverwendbarkeit Mobilisierung

Datenversorgung -> API-Ansatz

Theming

~~€€€~~

Theming

Entwicklungsgeschwindigkeit ~ 1/Architektur

Volker Buzek
Development Architect Mobility

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E: volker.buzek@js-soft.com

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evolute your software