How Libraries Support Inclusion Through Efficient Design and Development Cycles

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AGENDA

01

Accessibility problem diagram

Design blueprint

02

Accessibility checklist

Designer persona Overview

03

Library types

Challenges working with libraries

04

Annotated component

Libraries alignment

Problem & solution

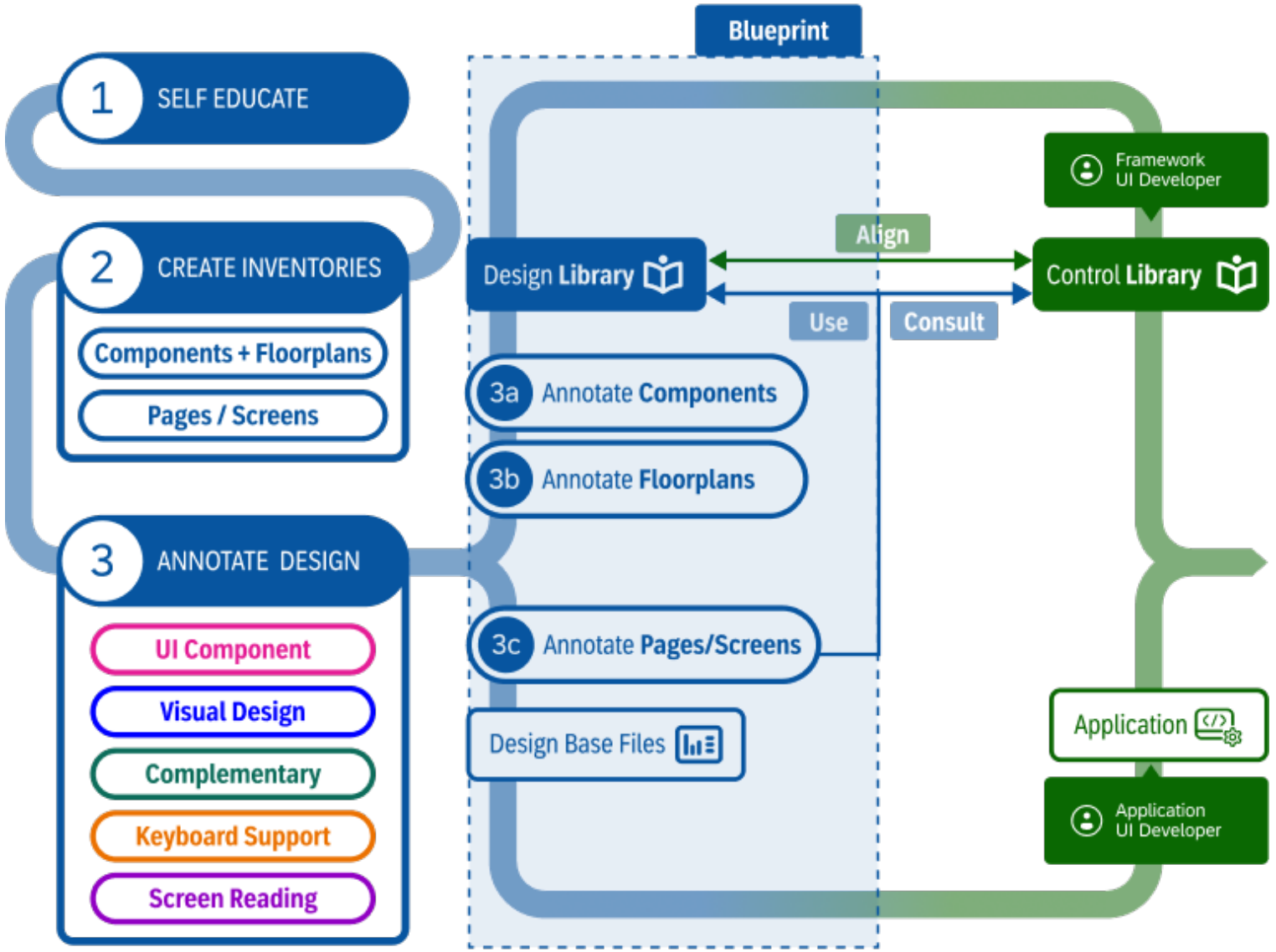
Takeaways

“… WCAG 2.1 will be supported by an extensive library of implementation techniques and educational materials…”

Web Content Accessibility Guidelines (WCAG) 2.1 is a W3C Recommendation

What about design?

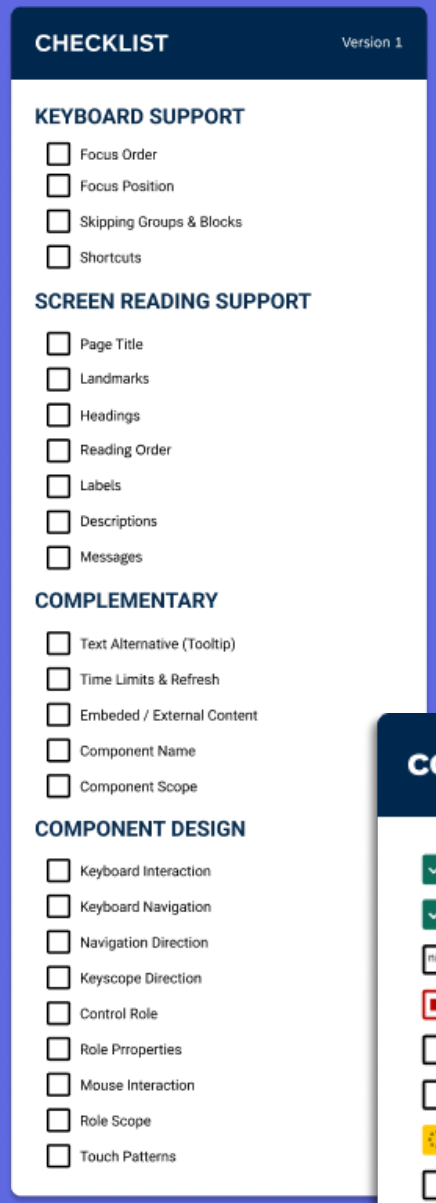
ACCESSIBILITY PROBLEM DIAGRAM



ACCESSIBILITY CHECKLIST

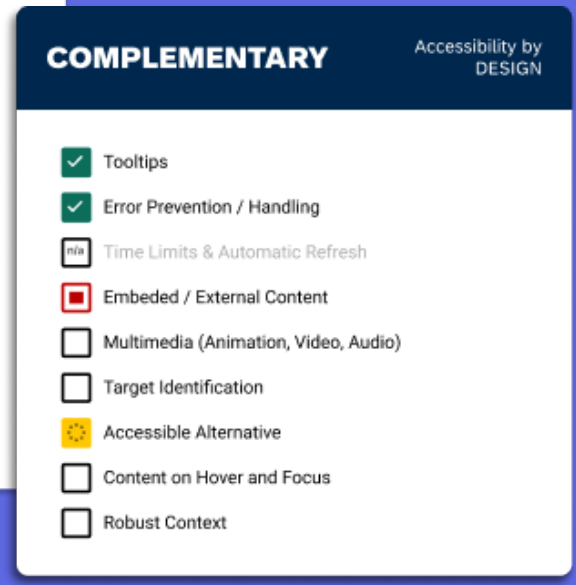
“At its heart, accessibility is about people not checklists.”
Liz Brown

But they are useful tools to manage and track annotations for accessibility.



Full checklist from SAP Guidelines Version 1 including Keyboard support, Screen reading, Complementary and Component design.

Partial checklist of complementary annotation from SAP Guidelines Version 2 with some items marked as done, as blocker and in progress.



PERSONA OVERVIEW

DAVE
Designer

Accessibility

Responsibilities	Activities	Tools
Training	Workshops, courses	Guidelines, videos, etc
Design / Fix	Pages Components Floorplans	Component library Personas' lenses Assets for annotation
Review	Formal Review (Jira ticket + QA) Informal Review (peer, meeting, comment)	Checklist
Research	Choose & Prepare Research Study Prepare Operations for testing Analyse Data Collected Consult Past Research Results	Templates Research results library & data
App Document	Create Base File Update Base File	Base specification file references

LIBRARY TYPES

Efficiency

Components in these libs are aligned and can be reused for consistent experiences

Design Guidelines

Design direction

Specification Lib

Design Library

Design tool (Figma)

Implementation Lib

Styles component

Visual appearance Tech agnostic

Wrapped component

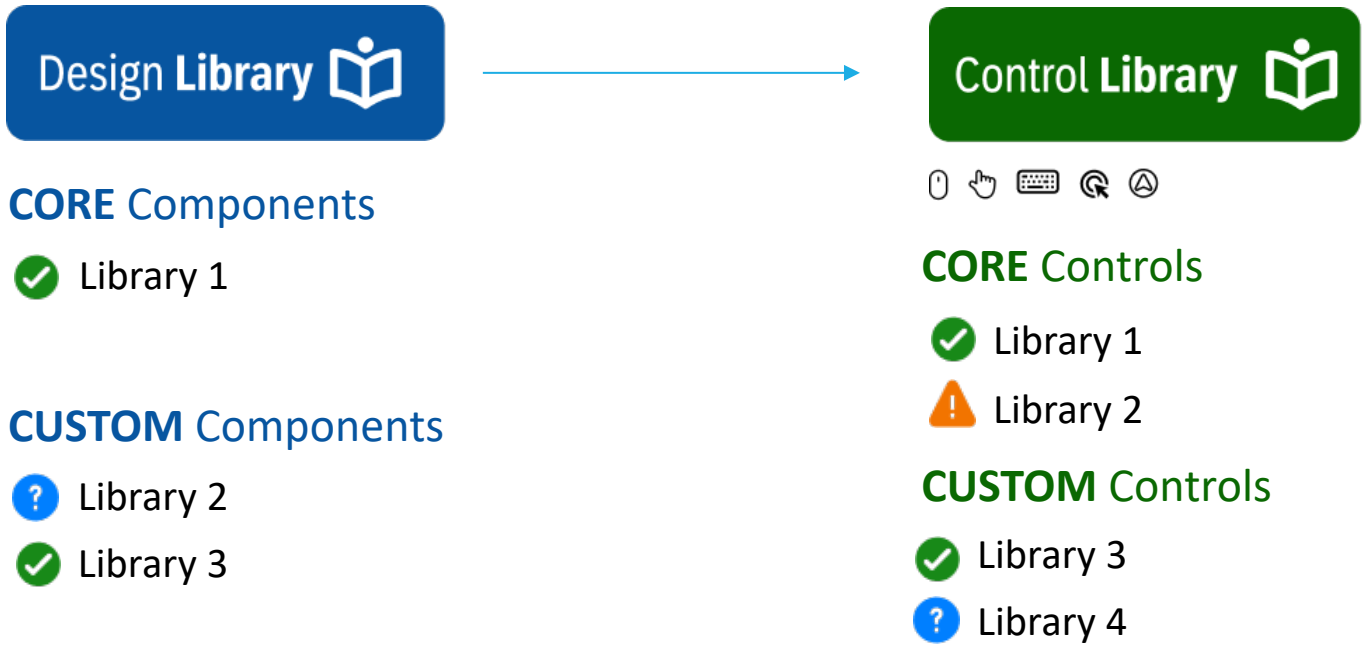
Tech ready / framework & behavior

CHALLENGES WORKING WITH LIBRARIES

01

Locate Libraries

Where is the library I need? Is this component available in the control library? Do I need to request the implementation of a custom component?



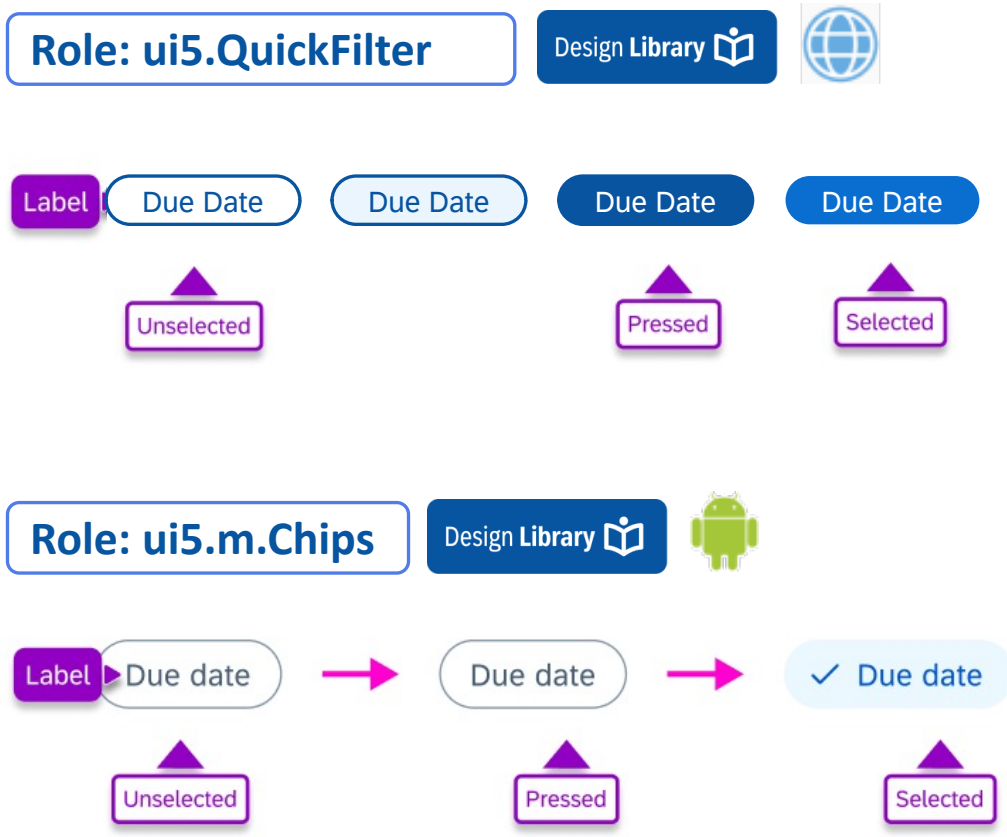
Alignment

CHALLENGES WORKING WITH LIBRARIES

02

Consistent Terminology

Why this component is called something else here?



CHALLENGES WORKING WITH LIBRARIES

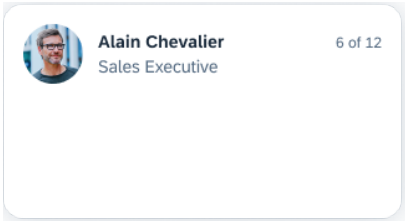
03

Consistent Look & behavior

Where are the gaps regarding interactions? Is it in the design specification or in the implementation? How many variations are there of the same control?

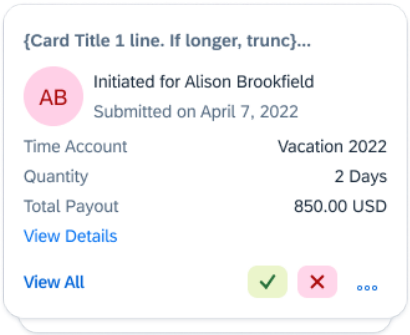
DESIGN

Library 1



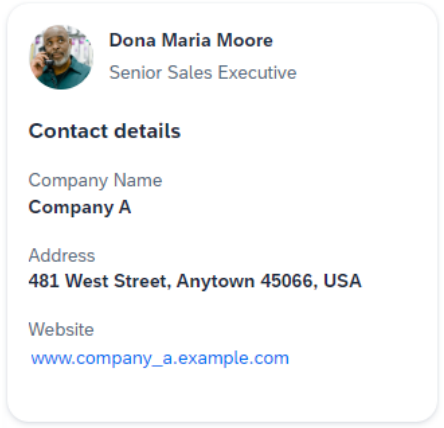
Library 2

Library 3

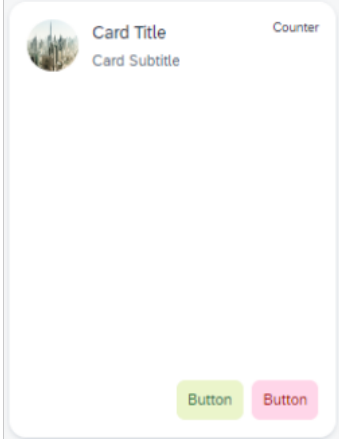


TECHNOLOGY

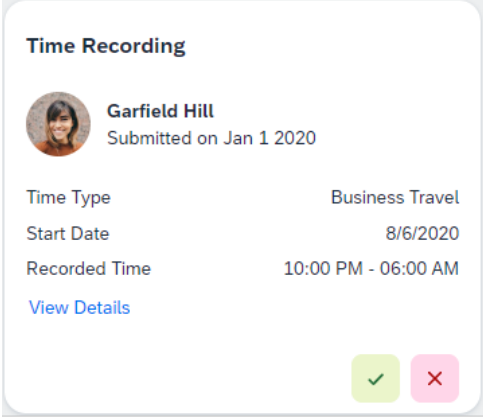
Library 1



Library 2



Library 3

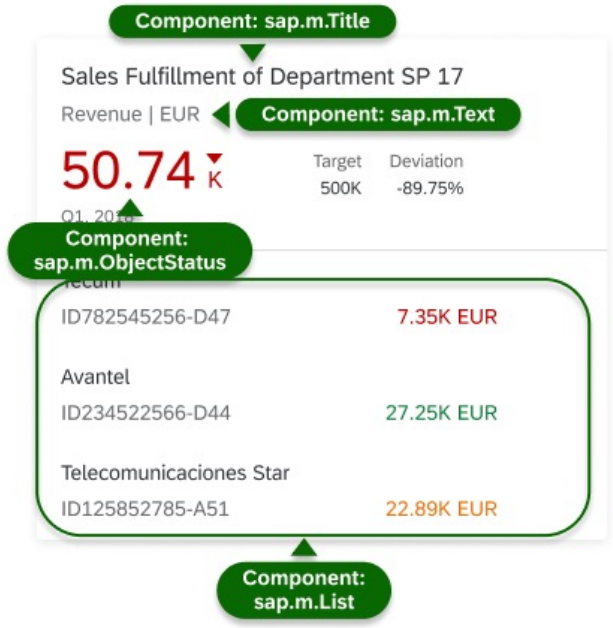


How to annotate components?

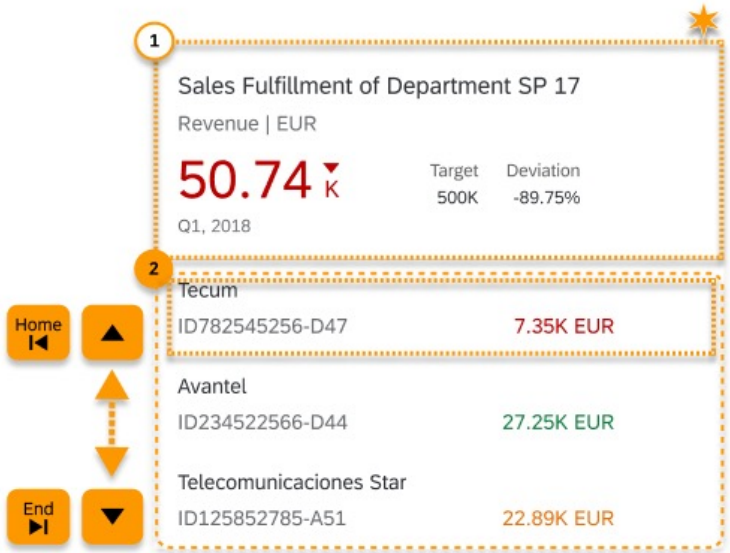
Annotated Component in library

Component Design name	Control name	Designer	Last update
Summary Card	**ui5.SummaryCard**	**John Sean**	**May 2022**

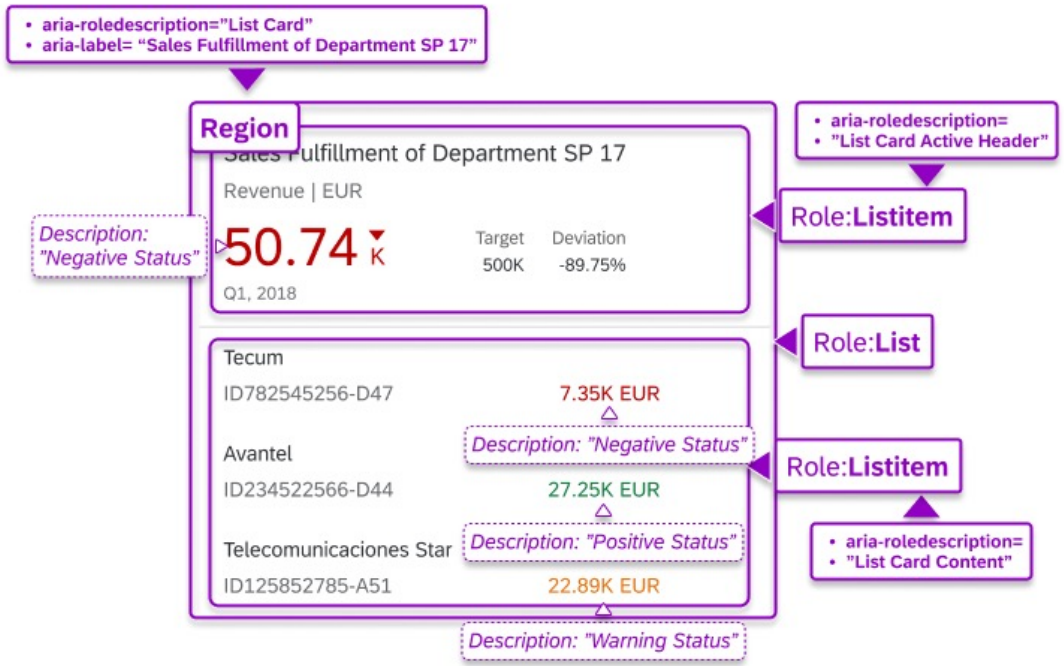
Complementary Annotation



Keyboard Support



Screen Reading



ALIGNMENT = EFFICIENCY

The **designer** annotate the component.

The **developer** implemented the component.

Now component and control can be **efficiently reused**.

Design Guidelines

Design direction

Specification Lib

Design Library

Design tool (Figma)

Implementation Lib

Styles component

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Fundamental Library

Wrapped component

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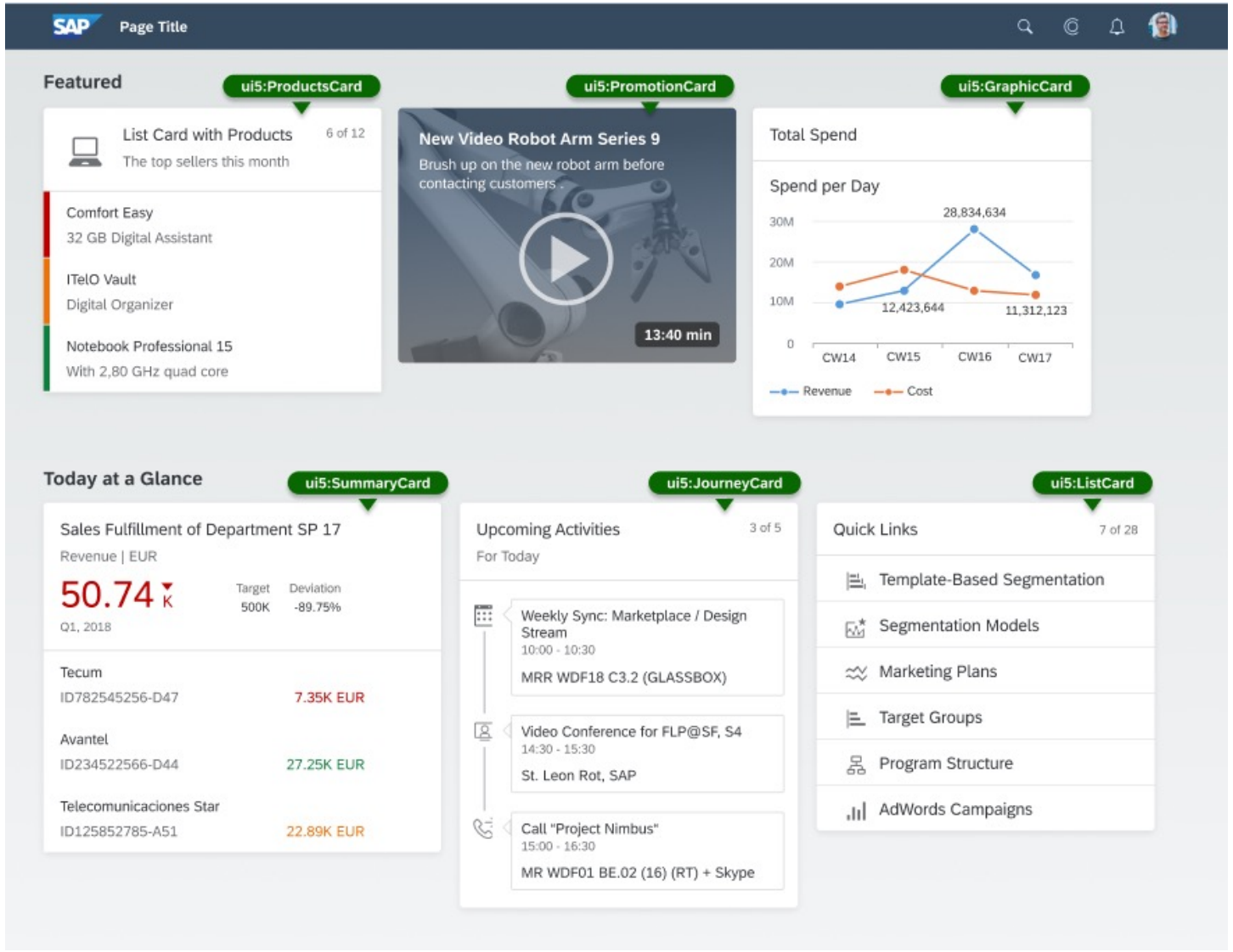
Fundamental Library

Annotating the screen using the component ui5.SummaryCard

In the context of the page a designer only inform the name of the component. If needed, add contextualized information like names, tooltips, shortcuts, etc.



Problem

Lack of coordination and vision:

- prevents work efficiency and alignments
- do not provide the right tools for stakeholders to work
- ignore the importance of trusted libraries where components look alike, behave alike

Solution

Acknowledge your landscape and identify the problem.

How many lib are there?

Create a plan of action.

Make an inventory of commonly used assets used to create experiences.

TAKEAWAYS

Challenges to work with libraries includes locate them, find components using clear terminology and maintain consistent look and behaviors.

Inventories are helpful to create a controlled environments and they support efficient work flows.

A design library contains reusable components annotated for accessibility.

Design and Control Libraries depend on a solid strategy plan and strong alignment.

THANK YOU.

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Teasing questions:

What has been your experience working with accessibility?

Are you comfortable using accessible components from design libraries?

BLUEPRINT

Avoid repeating annotation that are common to many pages like floorplans and structural elements.

01 SELF EDUCATE

Be patient and perseverant.

02 CREATE INVENTORIES

They contributes to work efficiency providing visibility of your building blocks for an strategic inclusive design: floorplans & components.

03 ANNOTATE DESIGN

Components

Make components reusable with accessibility specification for correct implementation of behaviors

Floorplans

Annotate repetitive layers pointing to layout structures and UI elements such as shell bar, menus, breadcrumbs. Make this part of a base file.

Pages & Features

Every new page or new features added to an existing page should be specified for accessible navigation and interactions. Refer components from the library.