CGE716 – Everything Wrong with My SAPUI5 App

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Speakers 2018

SAP TechEd Las Vegas
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Michael Graf

SAP TechEd Barcelona
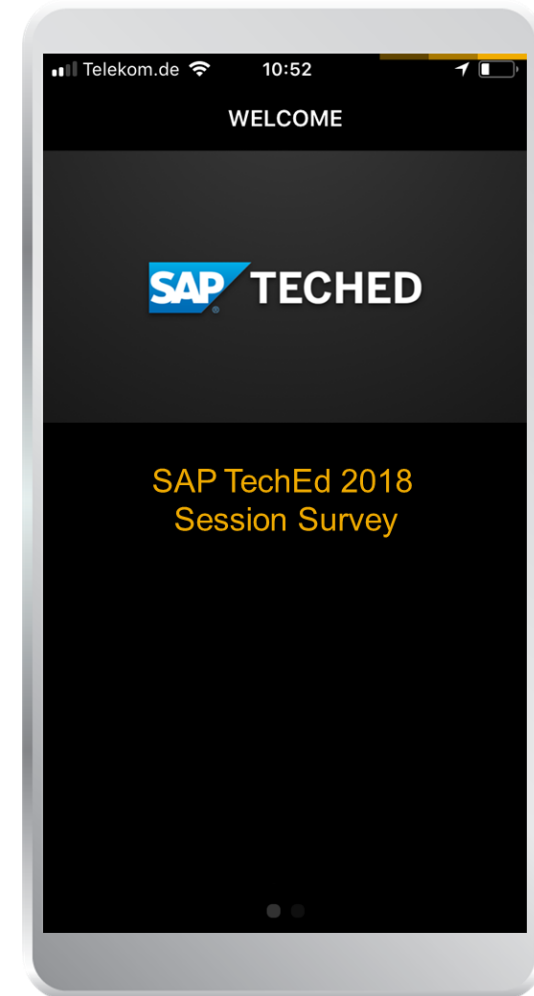October 23–25, 2018

Christian Voshage

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Agenda

Troubleshooting

- Learn how to fix common issues with our integrated troubleshooting tools

Performance

- Make your app fast and provide a good user experience

Layouting

- Analyze the control tree and fix common errors

Data Binding

- Know how to apply data binding concepts well

Lifecycle

- Understand where to hook into with your business logic

Demo

Let's dive into the code…

You can find the project shown today here:
https://github.com/Michadelic/EverythingWrong

Troubleshooting

To analyze errors efficiently, make use of tools:

Chrome Developer Tools

Technical Information Dialog

Support Assistant

SAPUI5 Diagnostics

UI5 Inspector

For more information check the Troubleshooting tutorial

Performance

To develop high-performance apps:

Do not use legacy APIs and concepts

Use asynchronous loading for all resources

Build the app and create an application preload

Optimize response times (UI and backend)

For more information check [Performance: Speed Up Your App](#)

Layout

To develop great user experiences:

Prefer standard Fiori controls over pixel-perfect custom designs

Never override SAPUI5 standard CSS classes or DOM elements

Do not create deep hierarchy of layout controls in aggregations

Use Standard Margin and padding classes

Even though its all HTML and CSS avoid layout hacks and worarounds!

Data Binding

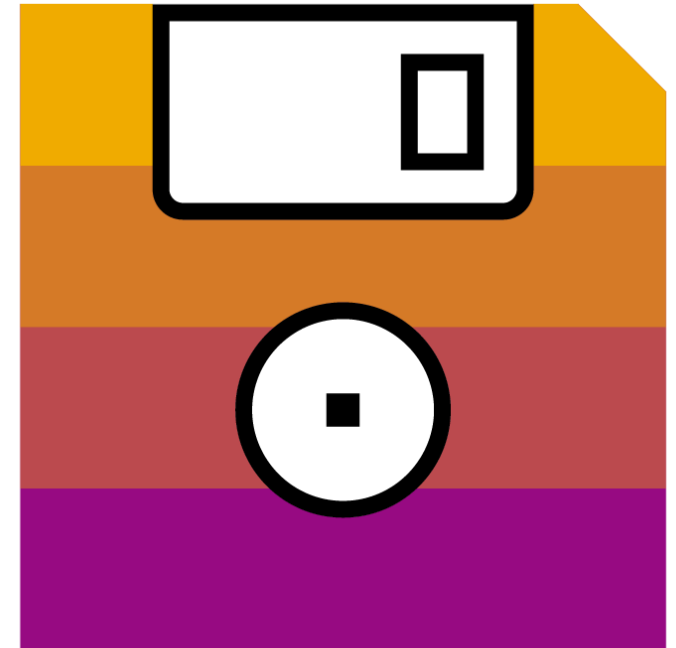To properly bind data in your app:

Use simple and consistent model structures

Use property, aggregation, and element binding as needed

Prefer formatters over expressions for complex use cases

Do not concatenate translated texts

Know the lifecycle of your data

For more information check Data Binding Tutorial
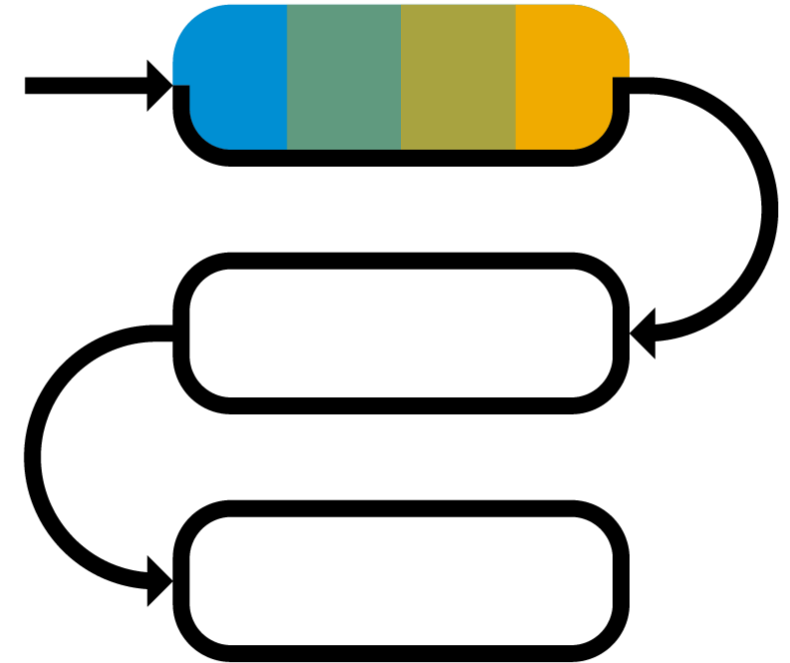
Lifecycle

To develop well-functioning apps:

Don't mix Data Binding / Routing / Rendering / DOM lifecycle

Prefer framework hooks and behaviour over custom implementations

Do not use setTimeout and setInterval calls

Avoid „callback hell" with named functions and Promises

Modularize and comment your code well

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Related SAP TechEd sessions

CGE855 - Road Map: SAPUI5
CGE210 - SAPUI5 Evolution: Gain Performance, Close Gaps, and Use New Technologies (Lecture)
CNA220 - Next-Generation Smart SAPUI5 Controls Consuming SAP Cloud Platform Services (Lecture)
CGE372 - Evolved Best Practices and Tips for Working with SAPUI5 (Hands-On 4h)
CGE371 - How to efficiently develop SAP Fiori with Fiori elements (Hands-On 2h)
CGE716 - Everything wrong with… my SAPUI5 App (Code Review)
CGE713 - Prepare your App for SAPUI5 Evolution (Code Review)
CGE877 - SAP Web IDE: Roadmap and Q&A
CNA376 - Build Applications with the Programming Model on SAP Cloud Platform (Hands-On 2h)
CGE367 - Build Your SAP Fiori App from Back End to User Interface (Hands-On 2h)
CGE625 - Apply Your Brand to SAP Apps Using UI Theme Designer on SAP Cloud Platform (CodeJam mini-edition)
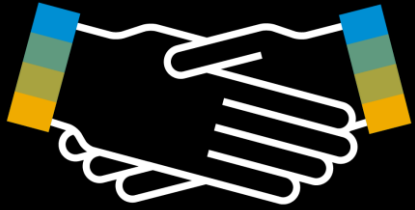
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