

UI5con

Develop SAP Fiori apps

in TypeScript using SAP Fiori tools

Marius Freitag, Tobias Queck, SAP UX Engineering

July 6th, 2023

Agenda

A quick refresher

Fiori elements and Fiori tools

What's new?

Open source, TypeScript, FPM

Let's start coding

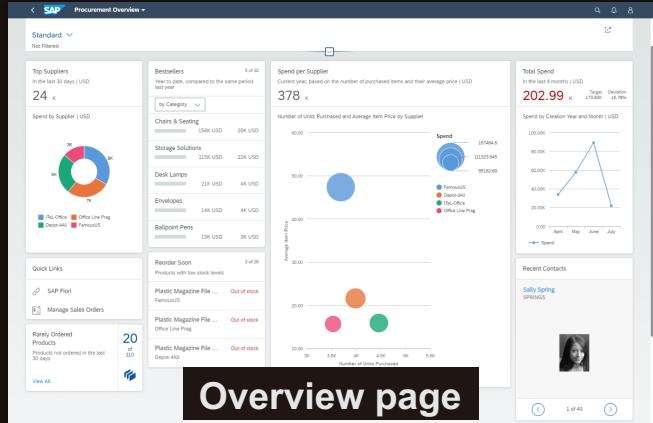
CAP, TypeScript & Fiori elements

A quick refresher...

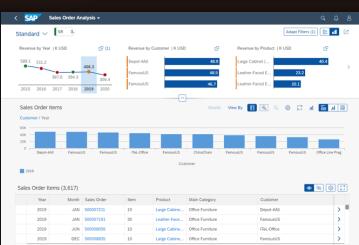
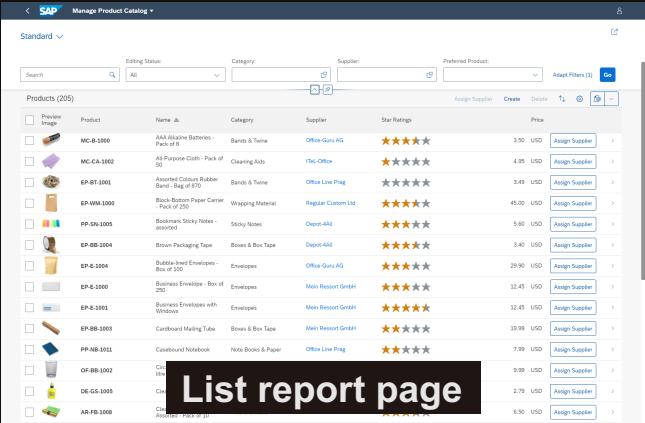
SAP Fiori Elements

Most use cases in the enterprise space involve providing an **overview**, **lists** of business objects and management of these business objects.

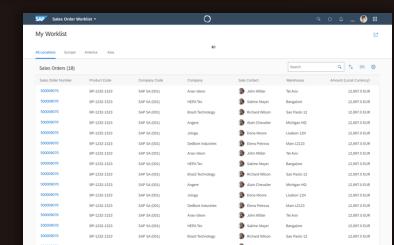
Provide **overview** on business relevant data



Work on a **list** of business objects

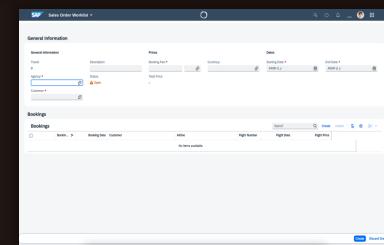
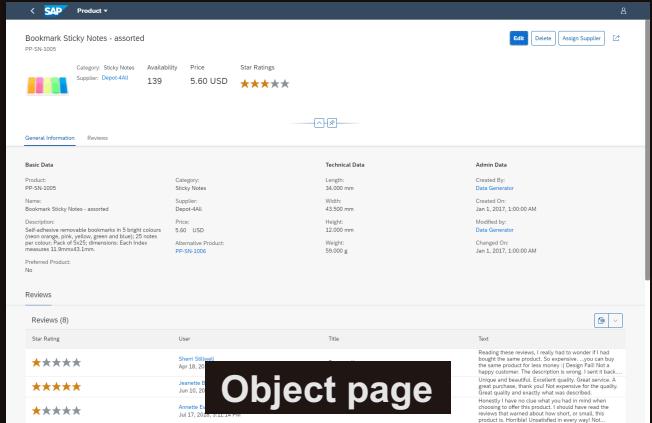


Analytical list page



Worklist page

Manage individual business objects



Form entry page

Flexible Programming Model

Floorplans

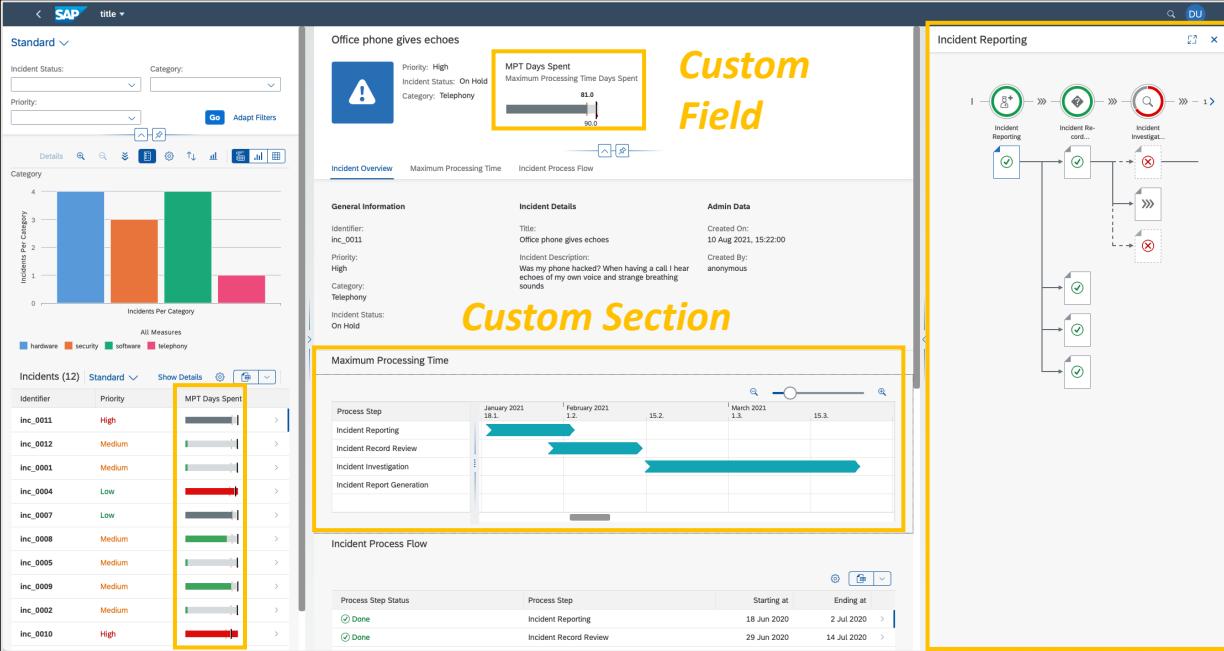
OData service

Annotations

Configuration

Custom code

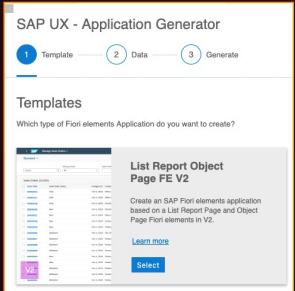
The closer you stay to the standard SAP Fiori elements floorplans,
the greater the savings in development and maintenance costs



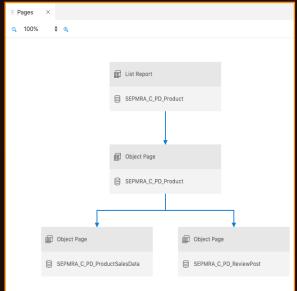
- **Extension points** allow you to add **custom artifacts** like custom sections, custom actions, custom table columns, or even custom pages.
- Within these custom artifacts you can leverage **building blocks** (OData V4), **smart controls** (OData V2) or **custom controls**
- Custom logic can be incorporated using **controller extensions** specified in the ExtensionAPI

SAP Fiori Tools

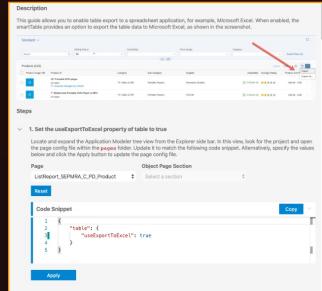
Generates the project environment for development



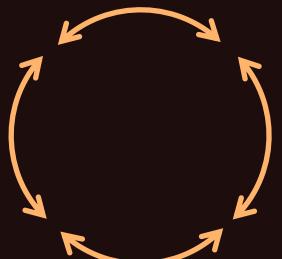
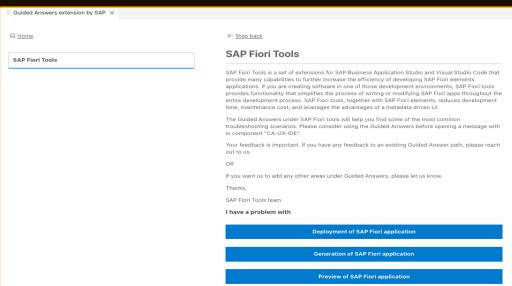
Allows editing of the app structure: pages, content, properties, and navigation



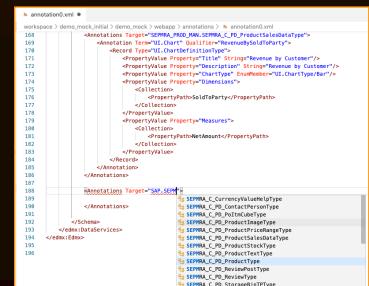
Provides step-by-step development instructions and generates code snippets in-line



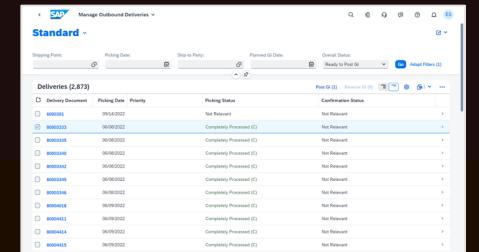
Offers troubleshooting tips (open source)



Delivers code completion using a language server protocol for annotations



Provides preview of web app in the browser either with mock data or live data



What's new?

UI5con

SAP Fiori Tools

Open Source

Open UX Tools

- New modules
 - deploy-tooling, project-access, ui5-library-writer, create (npm init @sap-ux),
- Enhancements
 - TypeScript support for all writers
 - Building blocks and more extensions in fe-fpm-writer

More Projects

- Open UX OData (containing the mockserver for OData v4)
- UI5 Language Assistant
- Guided Answers extension by SAP

SAP Fiori Elements

Flexible Programming Model

Extension API

- More functionality available
- Fully typed API

Building Blocks

- Improved overall API for programmatic interactions
- Better support in UI5 Language Assistant

FPM Explorer

- More and better structured examples
- Searchable, downloadable

Let's start Coding!

Let's start Coding!

14:00 Hands-on

UI5con

Remember

TypeScript, TypeScript, TypeScript

There is no reason not to use it anymore

Flexible Programming Model

It's flexible ;)

Commitment to open source

The journey continues

UI5con

Thank you!

Marius Freitag, Tobias Queck

SAP UX Engineering