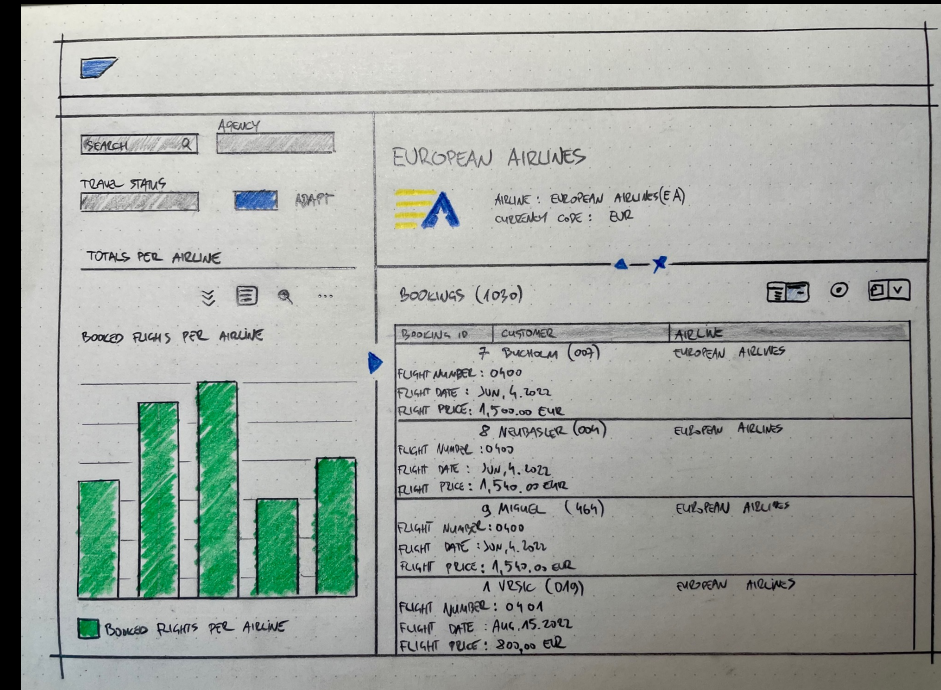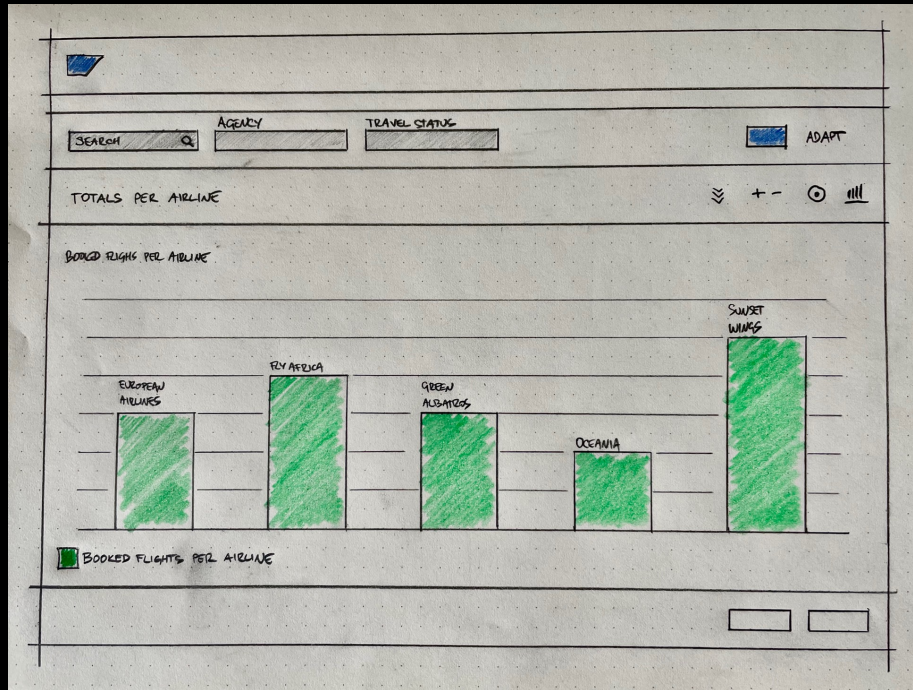# Building SAP Fiori apps with flexible open-source modules

Tobias Queck, SAP
Ashley Tung, SAP
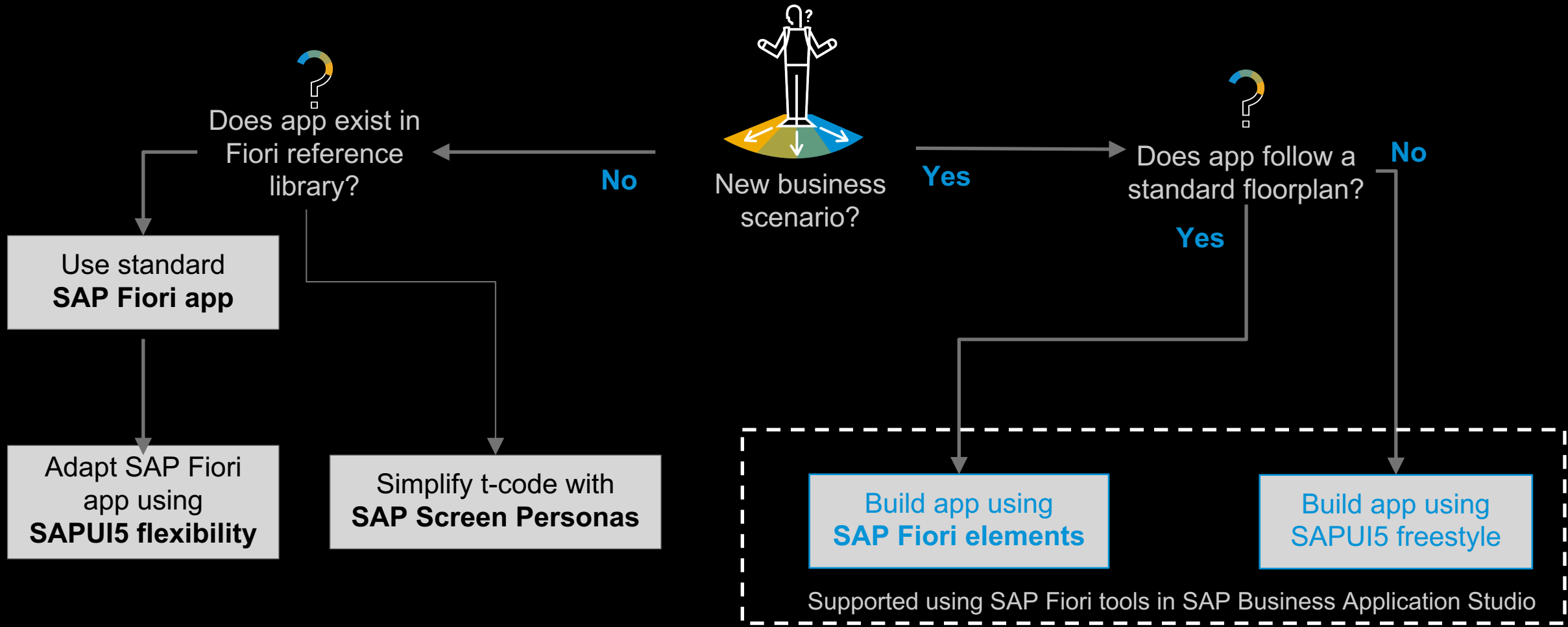July 7th/8th, 2022

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- Scenario / use case

- Challenge when starting a new SAP Fiori app

- Simplifying SAP Fiori app development
  - Standard SAP Fiori elements page types
  - Flexible Programming Model

- Demo

- SAP Fiori tools - open source strategy
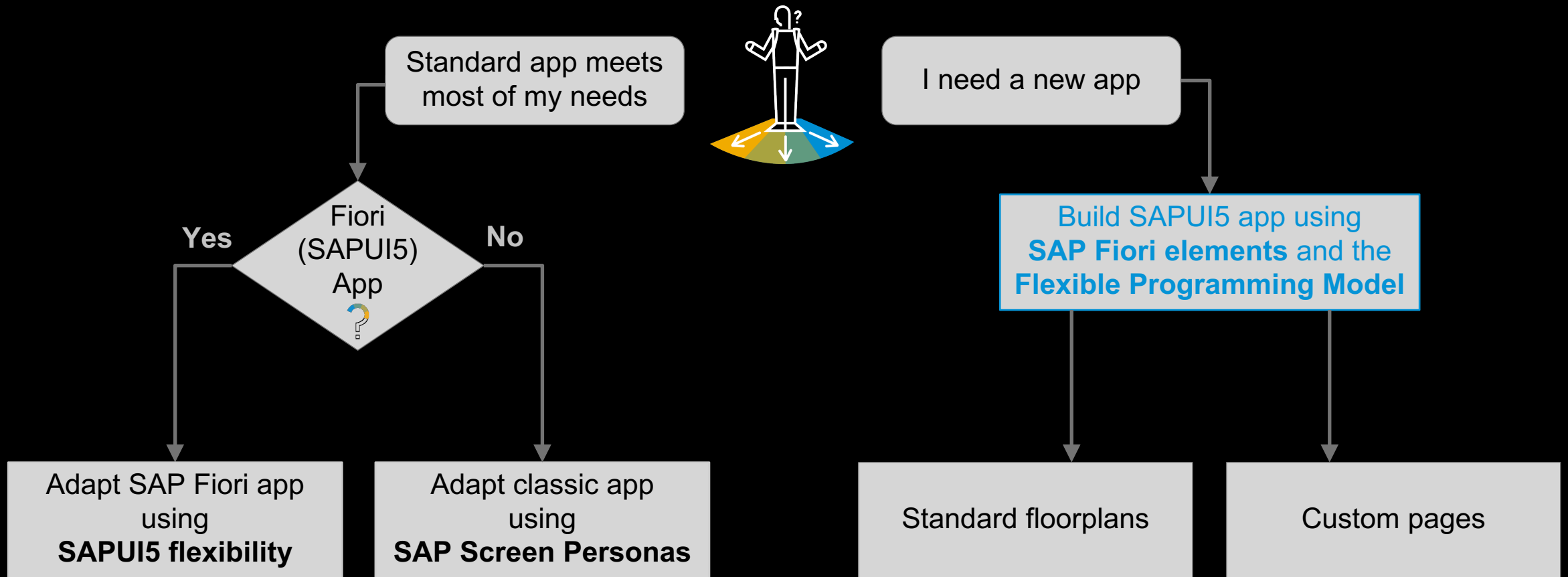
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Scenario / use Case for a new app

A developer using SAP Fiori tools asked for a recommendation on getting started to build a new SAP Fiori app. Her business manager wants to analyze the travel booking by agency and airline to better negotiate contract terms with agency and airline.

You used to have to choose the development approach up front

Does app exist in Fiori reference library?

New business scenario?

No

Does app follow a standard floorplan?

Yes

No

Yes

Use standard **SAP Fiori app**

Adapt SAP Fiori app using **SAPUI5 flexibility**

Simplify t-code with **SAP Screen Personas**

Build app using **SAP Fiori elements**

Build app using SAPUI5 freestyle

Supported using SAP Fiori tools in SAP Business Application Studio

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The Flexible Programming Model simplifies SAP Fiori development

Standard app meets most of my needs

I need a new app

Fiori (SAPUI5) App

Yes

No

Build SAPUI5 app using **SAP Fiori elements** and the **Flexible Programming Model**

Adapt SAP Fiori app using **SAPUI5 flexibility**

Adapt classic app using **SAP Screen Personas**

Standard floorplans

Custom pages

Accelerate development with SAP Fiori tools

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SAP Fiori elements has five standard floorplans

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

Overview page
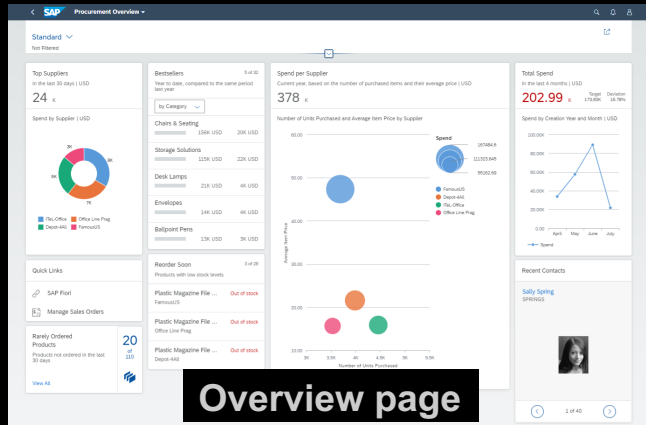
Work on a **list** of business objects

List report page

Manage individual business **objects**

Object page

Analytical list page

Worklist page

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Custom code complements your app beyond standard SAP Fiori elements

Floorplans

OData service

Annotations

Configuration

Custom code

Custom Field

Custom Section

Custom Column
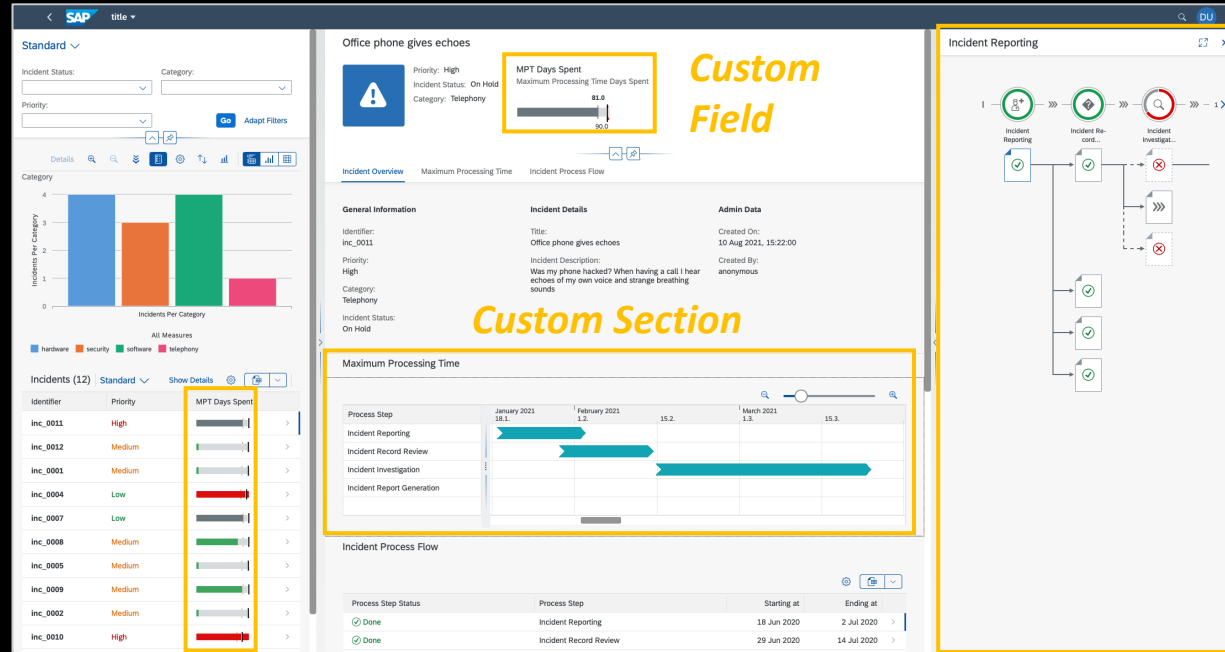
Custom Page

- **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**

The closer you stay to the standard SAP Fiori elements floorplans, the greater the savings in development and maintenance costs
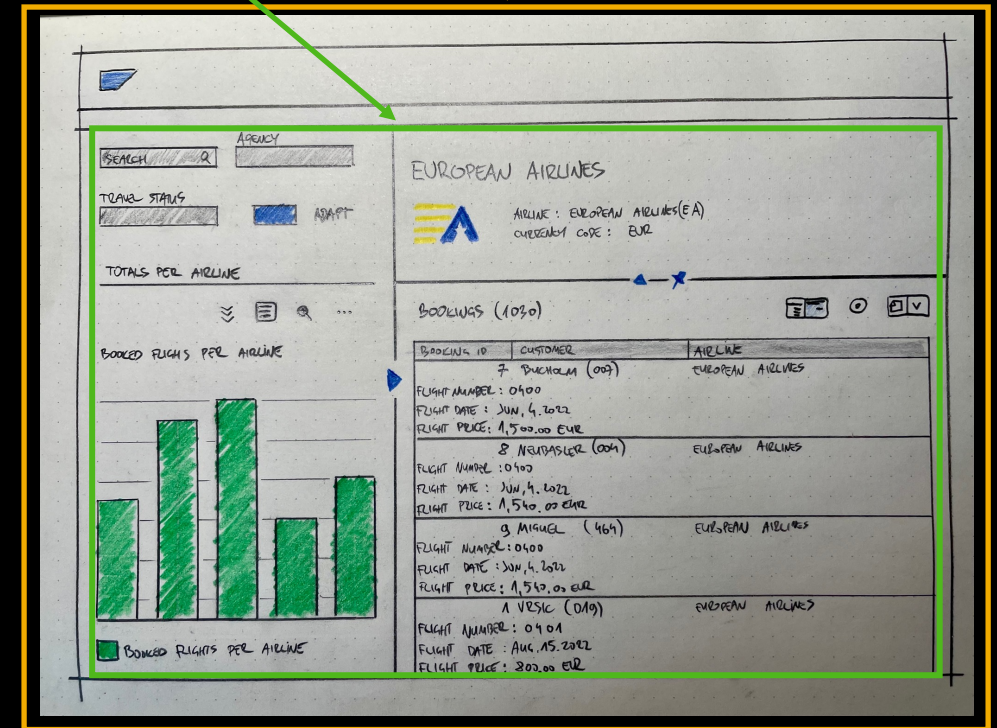
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Making a wire frame is a great way to visualize the app
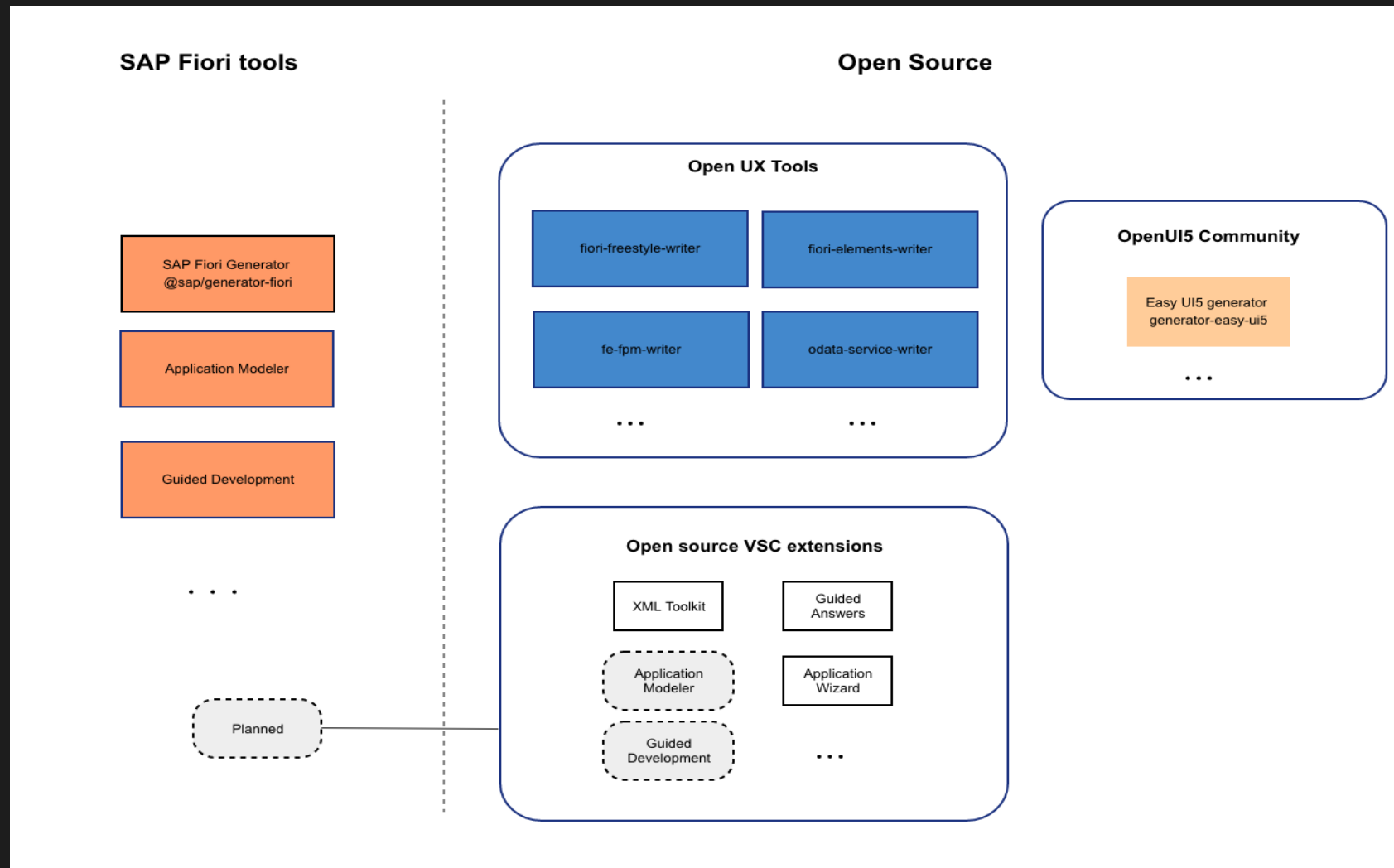

Custom Page
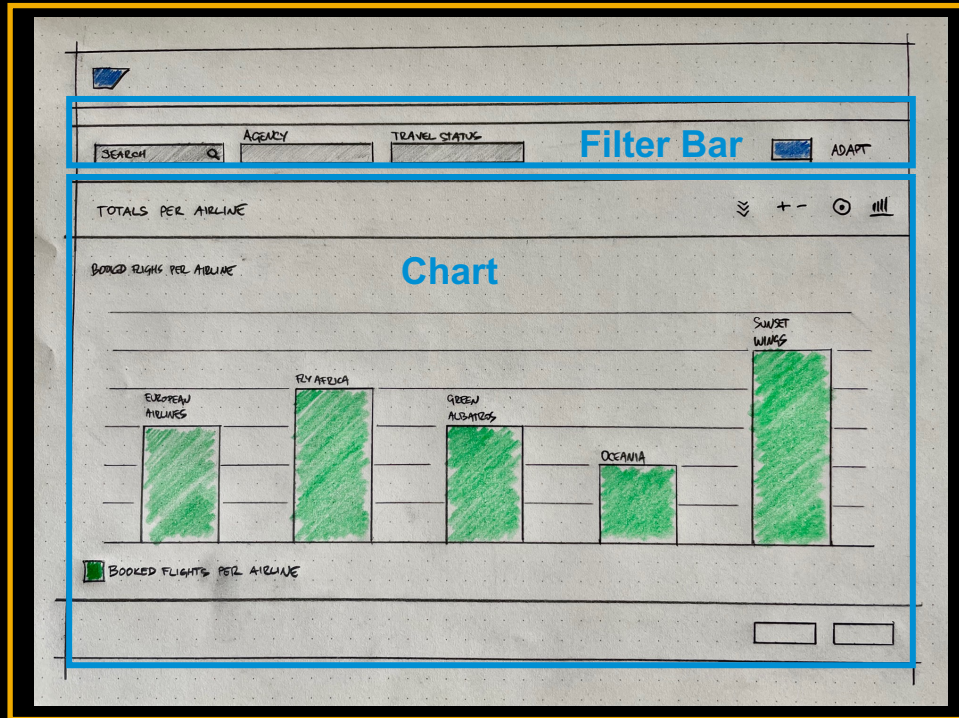
Object Page

Flexible Column Layout

Filter Bar

Chart

Page Type

FPM Building Blocks

Configuration

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Demo

We are making parts of SAP Fiori tools open source

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