

# Reading Sample

This sample chapter provides you with an introduction to each type of SAP Fiori elements floorplan: overview pages, list reports, analytical list pages, worklists, and object pages. You'll walk through an example of each floorplan type and then review their common uses cases. Finally, you'll see how generic annotations can be used to control and customize each type of floorplan.

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- The Authors

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**Development and Extensibility** 

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## Chapter 6

# Introduction to Floorplans and Application Scenarios

In the development of business apps, there are always use cases that require the representation of data in similar formats. Whether lists, tables, forms, or graphics, SAP Fiori elements provides suitable floorplans are available for all.

From the most diverse requirements for business apps, comparable use cases crystal-lize again and again in which data must be presented in a certain way. To implement these use cases as simply as possible and with relatively little development effort, you can fall back on *floorplans*. Admittedly, you're more flexible if you develop your own freestyle SAPUI5 apps. However, freestyle development is more complex and requires in-depth knowledge of SAPUI5 development. If you rely on SAP Fiori elements instead, you can create apps with little knowledge of SAPUI5. At the same time, you automatically achieve a consistent user interface (UI) design, and your apps comply with the SAP Fiori design guidelines.

In this chapter, we give you an overview of the floorplans available with SAP Fiori elements and their app scenarios. To this end, we'll first discuss the individual floorplans in Section 6.1. Then, in Section 6.2, we'll introduce you to their use cases. Finally, in Section 6.3, you'll learn about some annotations that can be used generically for all floorplans.

## 6.1 Available Floorplans

SAP Fiori elements offers you a range of floorplans. Whether you want to create an overview page with key figures or simply display a large amount of data in list form, there is a floorplan for every common use case. In addition to a list display, you can also create a detailed view for the individual objects within this list, which you can jump to when you select an object. You can use this detailed view to create new objects or edit existing ones. And statistical data can also be displayed in various ways with a floorplan.

We briefly introduce the available floorplans and their functions in the following sections. We'll then show a detailed development example for each floorplan type.

[>>]

#### **OData Version**

The individual floorplans sometimes differ depending on which OData version you're using. Versions 2 and 4 are available, so it could be that certain functions or annotations are only available in one of the two versions or work differently in the two versions. In the following examples we use OData V2.

#### 6.1.1 Overview Page

If you want to display an overview or dashboard for a specific business area or topic, it's best to use the floorplan overview page for this purpose. The *overview page* is particularly suitable for displaying the following information:

- Key tasks to be completed
- Various notes on a task area
- Various key performance indicators (KPIs)

In addition, you can also display diagrams and graphics on an overview page. The data displayed on the overview page is usually compiled from a variety of sources and is intended to provide the user with an overall view. For example, you could show data on all your products, customers, suppliers, or similar on an overview page.

Figure 6.1 shows what an overview page might look like. Cards are used to display the data. *Cards* are design elements on which the most important information about an object can be clearly displayed. Similar to tiles, cards allow a UI that brings together information on several objects or from several apps to be structured dynamically and clearly. This floorplan is also characterized by this design element. What kind of content you place on the individual cards is up to you. You can display tables, lists, diagrams, or tiles of any kind within the individual cards.

Basically, an overview page consists of two areas:

- Dynamic page header
- Dynamic page content

In the upper area of the app is the *dynamic page header* (Figure 6.1 **1**), which contains general information about the app. Here, for instance, the title describes the area for which the app provides data, such as purchasing or maintenance. You'll also find some user-specific settings in the header area. For example, you can call up and manage your user profile here. It's also possible to manage the displayed cards here.

If you want to further restrict the data displayed, you can do so using *smart filter* ②, which is located below the title in the dynamic page header. For example, you can filter the data displayed so that only entries that match your filter criteria are shown, such as only certain date values, totals, and so on.

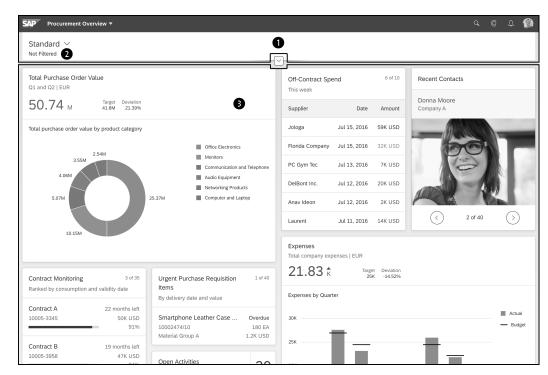


Figure 6.1 SAP Fiori Elements Overview Page

The actual content is represented by the area with the cards, also called *dynamic page content* ③. Cards belong to the components of the UI that can be configured via annotations. This makes them very versatile, as data can be displayed in many different ways. All kinds of charts, tables, or lists can be displayed within a card. The cards are displayed in five dynamic columns, whereby a card can also extend over several columns. They can be arranged as desired via drag and drop.

Note that a card is always bound to exactly one entity set. For example, if you want to display a product list on a card, this can be defined in a JavaScript Object Notation (JSON) object, as shown in Listing 6.1. This object can be found in the *manifest.json* file of your SAP Fiori elements app. When adding a card via one of the development environments, the corresponding definition is added at the code level.

```
"sap.ovp": {
    "cards": {
        "model": "ZCP_PRODUCTS_SRV",
        "template": "sap.ovp.cards.list",
        "settings": {
            "sortBy": "Price",
            "sortOrder": "descending",
            "listFlavor": "bar",
```

Listing 6.1 Definition of a Card in manifest.json

#### 6.1.2 Floorplans for Lists

With the list floorplans, you have the option of displaying data in list or table form. Unlike the overview page, three variants of the list floorplan are available here, which are used depending on the app:

- List report
- Analytical list page
- Worklist

All three floorplans are ideal for presenting data in the form of lists or tables. However, there are some differences in their use, which we'll now discuss briefly.

#### **List Report**

The *list report* is mainly used when large amounts of data need to be displayed and the individual entries need to be handled. The presentation doesn't necessarily have to be in tabular or list form, and a diagram is also possible. In addition, this floorplan enables users to prepare the result set accordingly by means of filters, sorting, and grouping. In this way, large amounts of data can be reduced to the relevant records.

However, you should not use the list report if you want to see the details of a record. In this case, the object page would be suitable (Section 6.1.3).

The list report is structured as follows:

- Dynamic page header
- Content area
- Footer toolbar

At the top of the page, you'll find the dynamic page header mentioned earlier (Figure 6.2 •). This header contains the title of the report and tells you what information is displayed with the app. In addition, you'll also find the filter line and buttons for general actions in the dynamic page header. These actions allow you to expand or compress the header. You can also pin or unpin it so that it's always displayed or only at the top when scrolling through the list.

The *content area* ② displays the actual content in table, list, or chart form. You can display data in different ways in this area. In addition, a title and an *icon tab bar* are displayed above the list. The latter can contain text buttons and/or icons.

In the *footer toolbar*, you'll find overarching actions that relate to the entire data overview, for example, saving or starting a simulation, as well as a notification icon, if applicable. This icon allows you to view notifications of errors that have occurred in a floating menu (popover). The footer toolbar is optional.

Figure 6.2 shows what a list report might look like. In this example, however, no footer toolbar is used—only the dynamic page header with the filter functions and the content area.

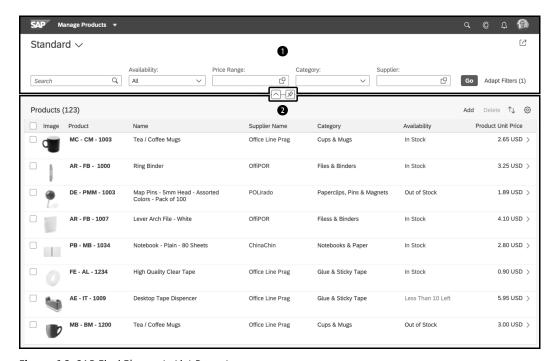


Figure 6.2 SAP Fiori Elements List Report

#### Worklist

The worklist is very similar to the list report in some respects. This floorplan is also used when large amounts of data need to be presented in list or table form. However, the data processed in a worklist differs from that of a list report. A list report displays all data. A worklist displays data on tasks that need to be completed by the user. A worklist can be used in an approval/rejection process, for example. As a rule, users can choose whether to complete a work item themselves or to delegate it.

The structure of the worklist basically corresponds to that of the list report. You'll find the following sections here as well:

- Header title
- Content area
- Footer toolbar

Figure 6.3 shows an example of a worklist. The header title and header tool are visible in the upper area, and the content area with several tabs is directly below. The *header title* • for the worklist is the counterpart to the dynamic page header of the list report. However, KPIs can also be displayed here. In the content area • you'll find the table with the work items. In addition, a *tab bar* • can be inserted to filter the displayed data via different tabs. The footer toolbar is used in the same way as the list report. Here, too, closing functions and a floating menu (popover) for notifications are available.

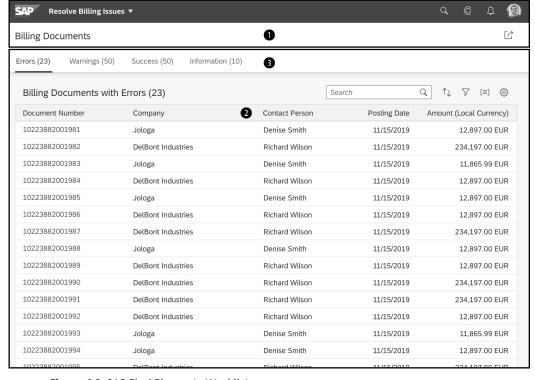


Figure 6.3 SAP Fiori Elements Worklist

#### **Analytical List Page**

The third list floorplan is the *analytical list page*, which offers you the possibility to display a wide variety of data in a unique way. For example, you can break down data into individual items and analyze them in different ways. To do this, you don't have to navigate back and forth, but can stay on the same page. In addition to a simple table view, the analytical list page allows you to display selected data in charts and more detailed lists. This allows users to see all the data sets that are relevant to them at first glance.

Highest and lowest values in particular, as well as deviations, can be displayed especially well.

Unlike the other two list floorplans, the analytical list page consists of only two elements:

- Analytical list page header
- Analytical list page content area

The analytical list page header (Figure 6.4 ①) contains filter operations in addition to a title. You'll also find the option to expand or compress the filter bar here. You can display data in a formatted form within the header using KPIs. The analytical list page content area ② contains the content of the analytical list page. This can be displayed using a wide variety of UI elements. It's up to you whether you display the data using a table, diagram, or both.

The analytical list page is particularly useful when the app needs to provide key information about a subject or topic area at a glance. It's often used to gain insight into the current situation and to understand how this data came about. To do this, it's often necessary to break down data to several levels, for which the analytical list page is very well suited. If, on the other hand, it's only a question of displaying an arbitrary list of data or the detailed view of an object, this floorplan should not be used.

Figure 6.4 shows the hybrid view of an analytical list page.



Figure 6.4 SAP Fiori Elements Analytical List Page

In addition to a tabular representation, this also contains diagrams. The tables and the charts are based on the same data. However, in the table view the data is broken down in more detail. While in the diagram, you see the **Sales Orders** cumulated per customer, the tables show the individual orders of each **Customer**. This view provides an improved overview of this data.

#### 6.1.3 Object Page

In the previous sections, we've looked at floorplans that allow data to be displayed in tables or charts. What we're still missing is the detailed view of a business object. This is made possible by the object page. However, the functions of the *object page* go beyond those of a detailed view. You can also use it to create new objects, edit existing ones, or delete them. Depending on how complex your objects are, you can display the data in simple forms or in tables.

The object page is made up of the following components:

- Dynamic page header
- Navigation bar (optional)
- Content area
- Footer toolbar (optional)

The dynamic page header (Figure 6.5 ①) contains key information about the displayed object. You'll also find an **Edit** button and a **Delete** button here. In addition to the title, the header also contains a subtitle or breadcrumbs.

You can use the *navigation bar* **2** to control which content is displayed in the content area. This can be used in two different ways:

#### Anchor bar

An anchor bar consists of a series of links that refer to different subsections. Clicking on such a link takes you to the corresponding subsection. The anchor bar is mainly used when the contents of the individual sections belong together.

#### ■ Tab bar

The tab bar also contains links. However, these refer to other pages within the app. This form of navigation is used when different contents are displayed on the individual pages.

The available tabs are displayed in the form of horizontally arranged links. Each of these links can be used to jump to a section or subsection.

The content area displays the detailed data of an object. this representation is done by means of *sections* 3 and *subsections* 4. A section can be seen as a kind of container that contains several subsections. Each section has a title. In the subsections, you'll find the actual contents. Each subsection also has a title and a toolbar. Whether you display tables, forms, or diagrams in the subsections is up to you.

Below the content area is the footer toolbar, which contains, if available, final actions such as saving, canceling, or accepting changes.

Figure 6.5 shows what an object page might look like. In the header, some important KPIs are shown here. You'll also find actions such as editing or deleting an object, but also more specific functions. In the content area, the details of the selected object are displayed in forms and tables.

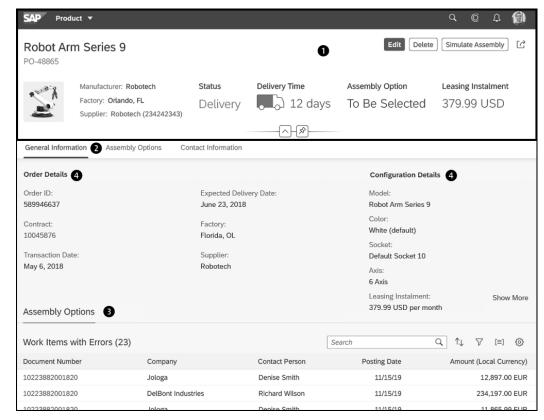


Figure 6.5 SAP Fiori Elements Object Page

The object page should be used if you want to allow users to view, create, and edit business objects. It's also very practical to get an overview of an object and to use some interaction possibilities.

### 6.2 Use Cases for the Floorplans

With the help of the individual floorplans, all conceivable scenarios can be mapped. The individual use cases have already been mentioned in the previous sections. Here, we compare them once again:

#### Overview page

The aim of the overview page is to provide users with an overview of a subject area or a business division. For example, they can get an overview of sales figures, earnings, or other information.

An overview page is therefore often classified as a launchpad, but there are significant differences: while the classic launchpad exists only once for each user, an overview page can have different views for a user. In addition, the contents of an overview page are context-related, whereas with the launchpad, you access completely different apps depending on your role.

#### ■ List report

You should use the list report especially if you want to enable filtering, sorting, and grouping of large amounts of data. The display is in table or list form. List reports can also be ideally combined with the object page to display the details of a list object.

#### ■ Worklist

The scope of the worklist is very similar to that of the list report. One difference is the data displayed. In the worklist, data records, called work items, are displayed that are to be processed by a user. In addition, a worklist contains actions that complete a process or workflow, such as releases.

#### ■ Analytical list page

The analytical list page is mainly used when it comes to displaying analytical data and breaking it down to several levels. For example, you can display the turnover of customers in chart form. By selecting an individual customer, you get an exact breakdown of how this total turnover came about.

#### Object page

The object page is basically the detailed view of a single object. This floorplan gives you a detailed overview of the respective object. It can be used not only to display and edit the objects but also as a form to create new objects.

#### 6.3 Generic Annotations

When you create apps using SAP Fiori elements, you'll notice that a lot is controlled by annotations within these apps. You can determine what content is displayed and how it's displayed. But functions such as filters can also be controlled via annotations.

The annotations can come from the OData service in the backend system, or they can be stored locally in the SAPUI5 app in a separate file. To simplify the maintenance of this file for SAP Fiori elements apps, the *annotation modeler* is provided. This is available in SAP Web IDE.

In the following sections, we'll present specific UI annotations for each of the floorplans presented, which you can use to influence the display on the interface. The annotations

listed in this section, on the other hand, are generic and can thus be applied to any floorplan of SAP Fiori elements.

#### 6.3.1 UI.HeaderInfo

The following annotation is used to control the display of the respective headers:

#### ■ UI.HeaderInfo.typeName

- Datatype: String(60)
- Example: UI.HeaderInfo.typeName: 'Order'

This string, which can contain up to 60 characters, is displayed in the header of the called app and indicates the name of an object type. This annotation must be obligatory if the annotation <code>EndUserText.label</code> isn't used instead. This annotation is typically defined in a Core Data Services (CDS) view and contains a title for the CDS view that is as meaningful as possible.

#### ■ UI.HeaderInfo.typeNamePlural

- Datatype: String(60)
- Example: UI.HeaderInfo.typeNamePlural: 'Orders'

This represents the title of a list and is mandatory.

#### ■ UI.HeaderInfo.typeImageUrl

- Datatype: String
- Example: UI.HeaderInfo.typeName: '/img/order'

This contains the URL of an image used to represent the object type and can be specified optionally.

#### 6.3.2 Ul.selectionField

With these annotations, you can determine which filter criteria you want to provide. The following variants are available:

#### ■ UI.selectionField.qualifier

- Datatype: String(120)
- Example: UI.selectionField.qualifier: 'Ordernumber'

With this string of up to 120 characters, a unique name for a selection field can be specified.

#### ■ UI.selectionField.position

- Datatype: Decimal
- Example: UI.selectionField.position: 16

This property controls the order of the individual filter criteria. The individual criteria are sorted in ascending order.

#### 6.3.3 UI.lineItem

The annotation UI.lineItem allows you to control the presentation of data fields in tables and lists. For example, you can specify which columns should be present, how they should be arranged, and also what the column heading should look like. The following specifications are possible here:

#### ■ UI.lineItem.position

- Datatype: Decimal
- Example: UI.lineItem.position: 16

The position of a column can be determined by the value of this annotation. This annotation must be obligatory.

#### ■ UI.lineItem.importance

- Datatype: String
- Possible values: HIGH, MEDIUM, LOW
- Example: UI.lineItem.importance: HIGH

This indicates the priority of a column. This specification plays a role if not all columns can be displayed due to the display size.

#### ■ UI.lineItem.label

- Datatype: String(60)
- Example: UI.lineItem.label: 'Ordernumber'

This indicates the title of the respective column in the table.

#### 6.3.4 UI.hidden

With this annotation you can control the visibility of UI elements. Possible values for this are true or false. A corresponding specification could therefore look as follows:

UI.hidden: false

#### 6.4 Summary

In this chapter, we provided a rough overview of the available floorplans, their structures, and their possible uses. We'll look at how these are implemented in the following chapters. In addition, you've also learned about annotations in this chapter, which can be used in any case regardless of the floorplan used.

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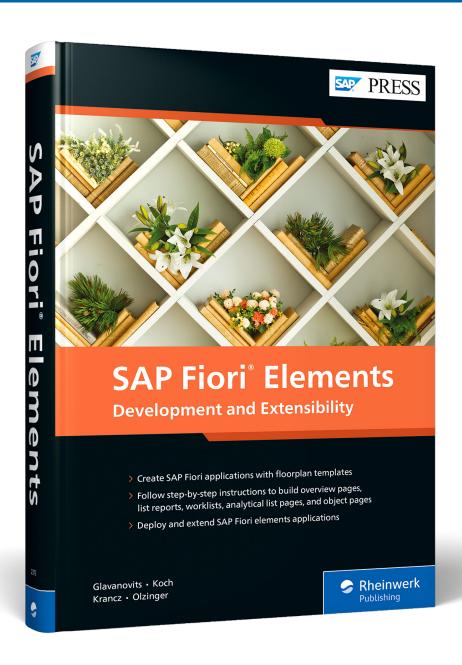
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