

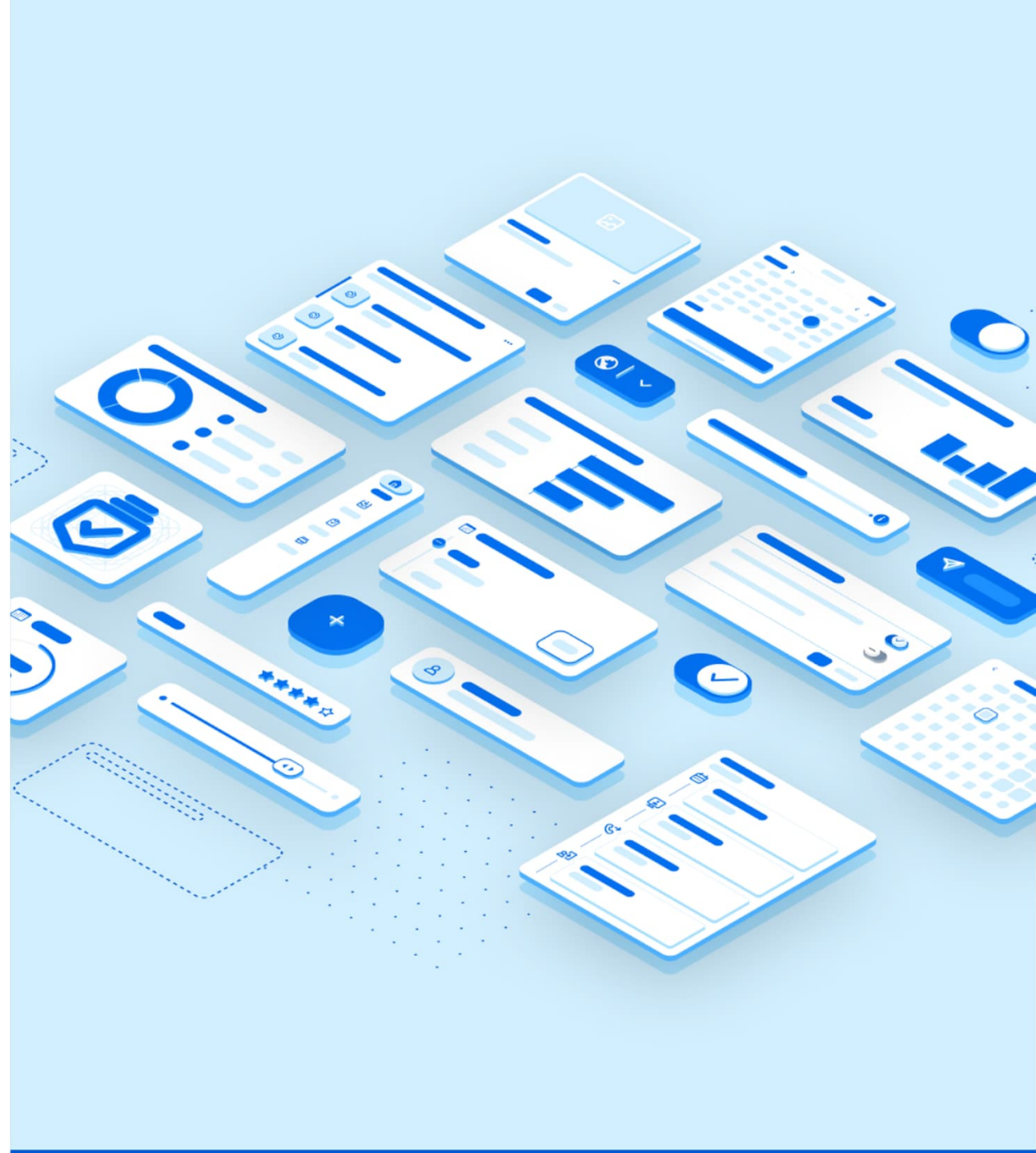
AI-Powered Full-Stack Dev with SAP's MCP Servers for ABAP & SAP Fiori

June 13th, 2026
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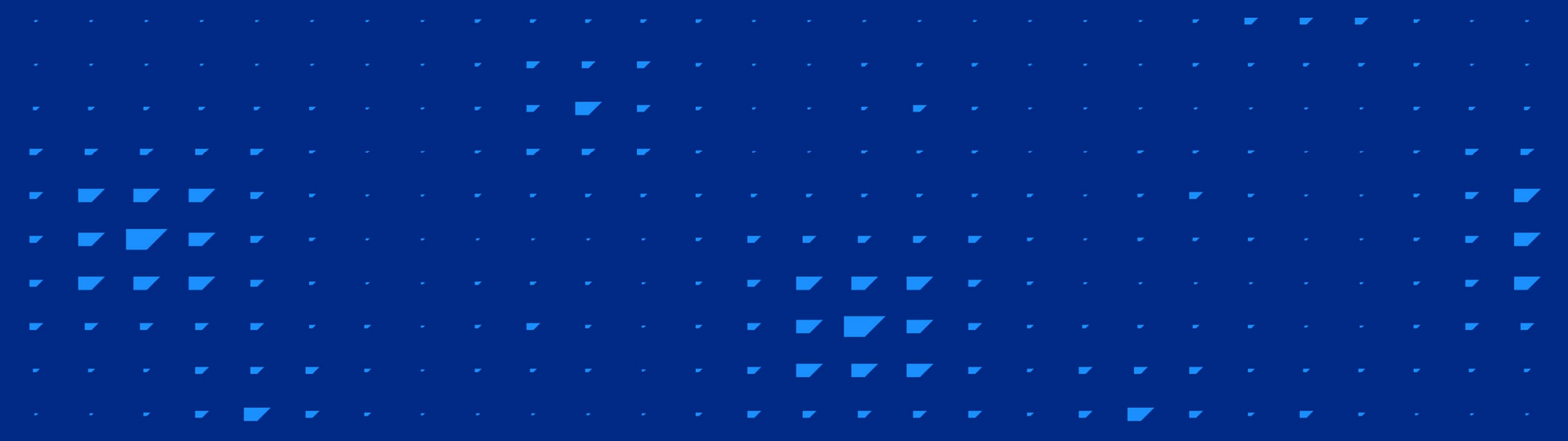
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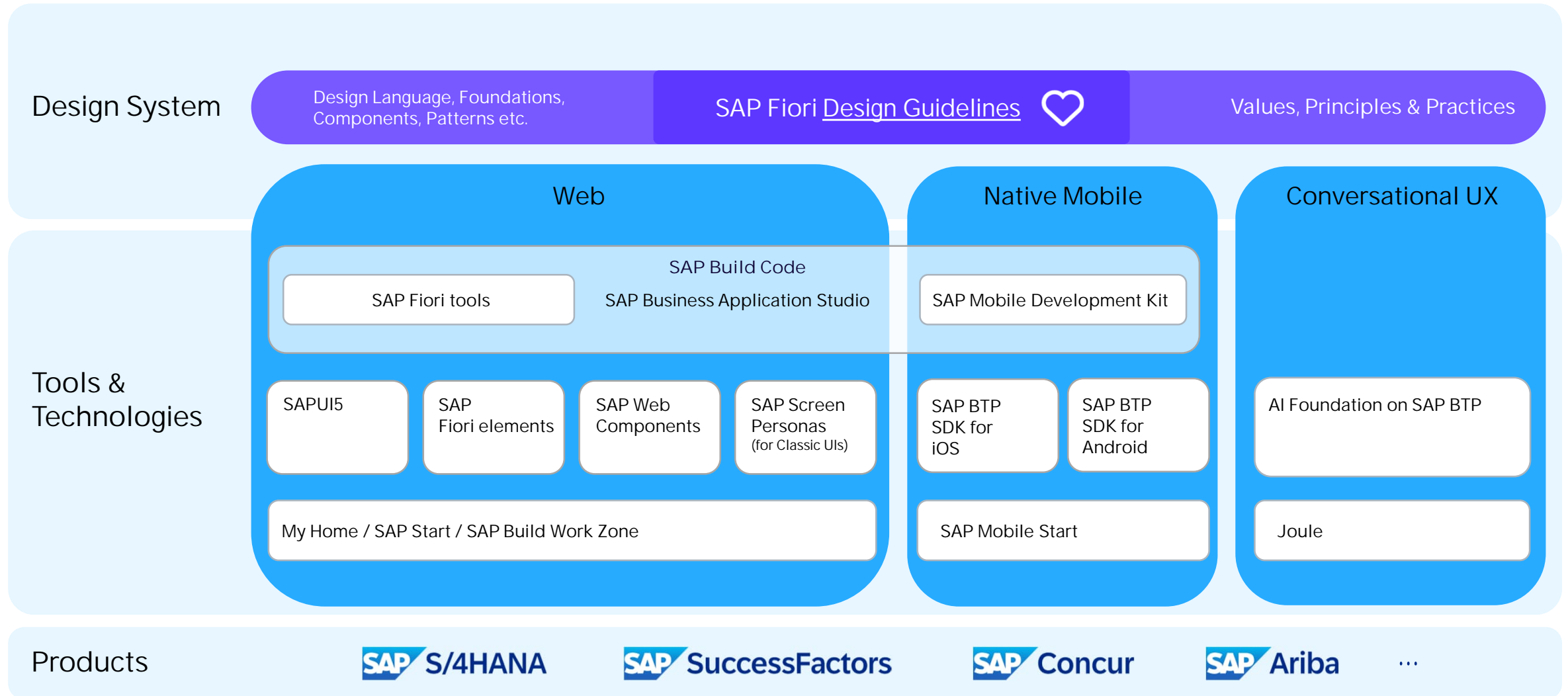
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SAP Fiori elements & tools

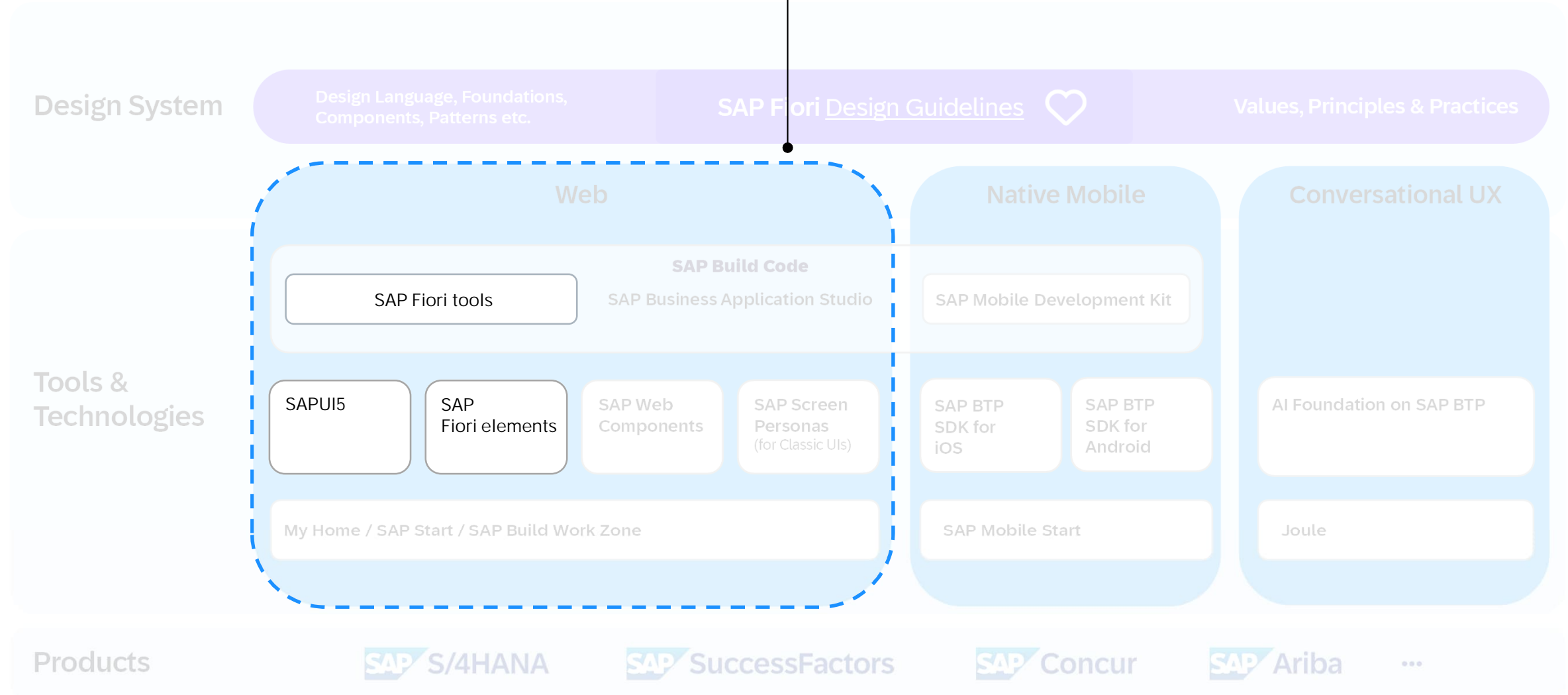


SAP Fiori covers several dimensions



SAP Fiori covers several dimensions

We will focus on building SAPUI5-based web apps using SAP Fiori elements and SAP Fiori tools





Scaling app development with SAP Fiori elements and SAP Fiori tools

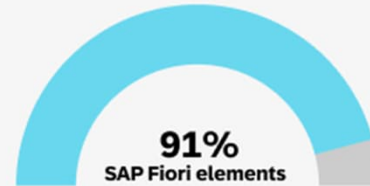
SAP Fiori elements dynamically generates SAP Fiori apps at runtime based on backend services and metadata.

SAP Fiori Tools makes the SAP Fiori elements easily approachable, to build and extend SAP Fiori elements-based apps.

Both accelerate consistent app development and AI integration.

Over 100K apps created this year to enhance SAP Business Suite.

**SAP Fiori elements:
New apps in
SAP S/4HANA 2602**



**SAP Fiori tools: Generated
projects in 2026**



194.4k

Generated projects with SAP Fiori tools

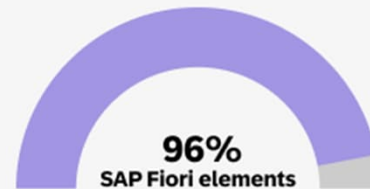
**SAP Fiori tools: Downloads
& Installations in 2026**



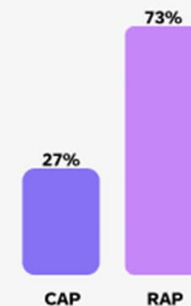
SAP Fiori tools extension pack installations

148K

**SAP Fiori elements:
New apps in
SAP S/4HANA 2608**



**SAP Fiori tools: CAP vs
RAP projects in 2026**



**MCP server for
SAP Fiori downloads
(NPMJS)**



750K

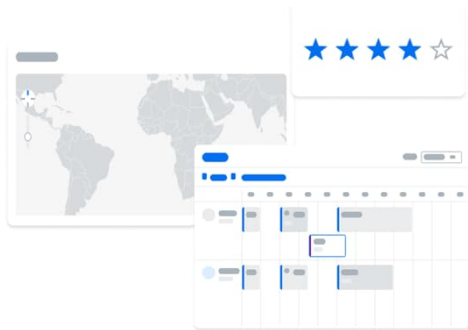
1 Learn the basics

Reusable artifacts for standardized layout patterns or interaction behaviors to provide enterprise readiness, support UI consistency, and boost developer efficiency as part of the SAP Fiori elements framework and additional flexibility through SAPUI5.

SAP Fiori elements
Building Blocks



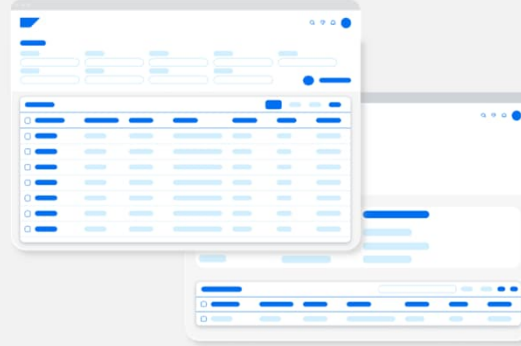
SAPUI5



2 Choose your starting point

Depending on your target picture choose among floorplans for standardized layouts or custom pages with building blocks or freestyle SAPUI5 page to provide maximum flexibility.

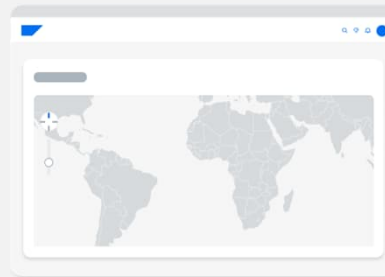
Floorplans



Custom Page
with Building
Blocks



Freestyle
SAPUI5 Page



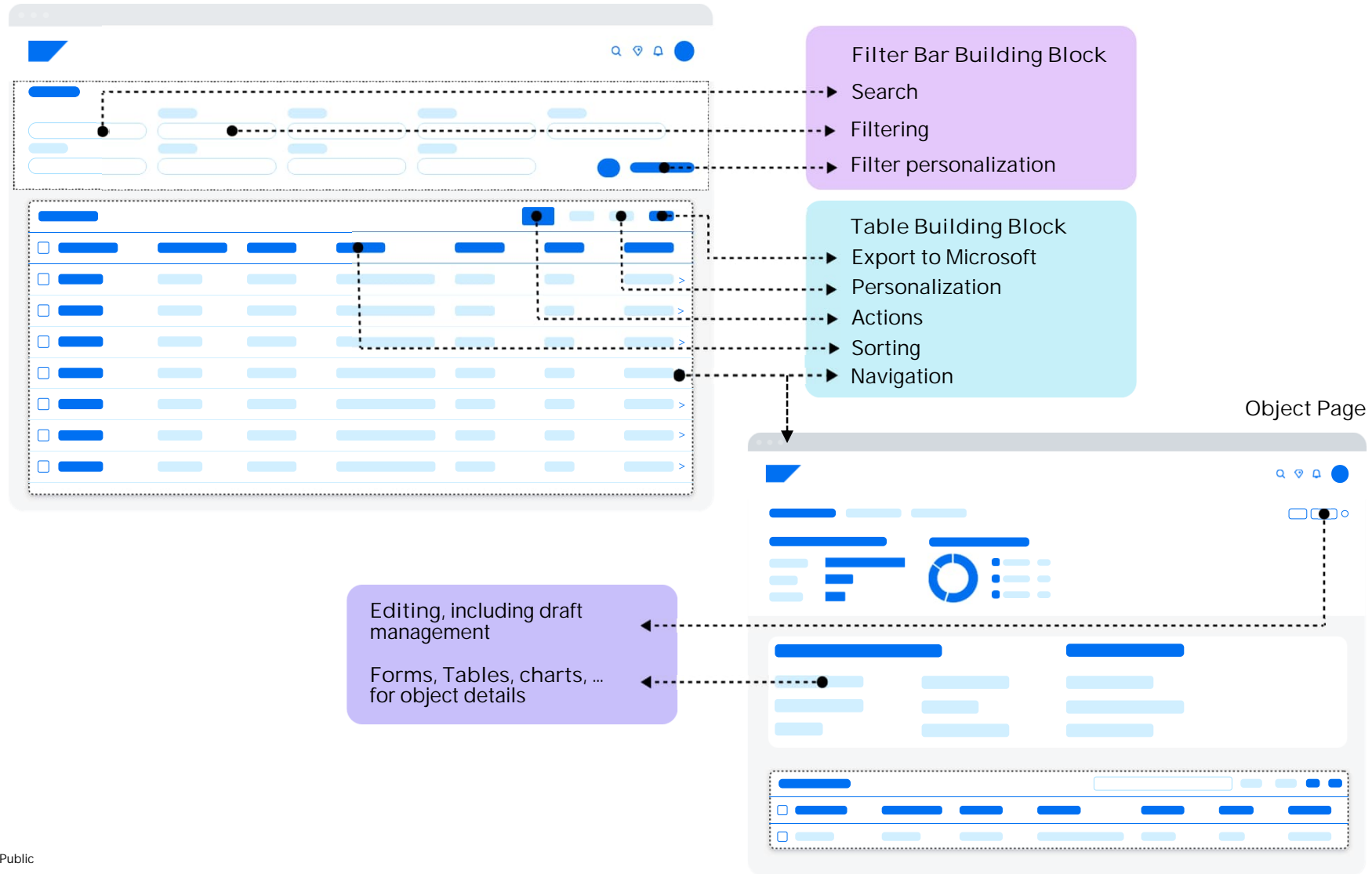
3 Combine SAP Fiori elements and freestyle SAPUI5

To combine freestyle SAPUI5 code with SAP Fiori elements you now have the full flexibility to either use both in extension points of your floorplan or add the custom pages you built with building blocks or completely go freestyle SAPUI5.



SAP Fiori elements provides enterprise readiness from the start

List Report



- ### Readiness features
- Accessibility
 - Internationalization
 - Mobile compatibility
 - Responsiveness
 - Performance optimizations
 - Integration
 - Security checks
 - Lifecycle stability
 - Test automation support
 - And more

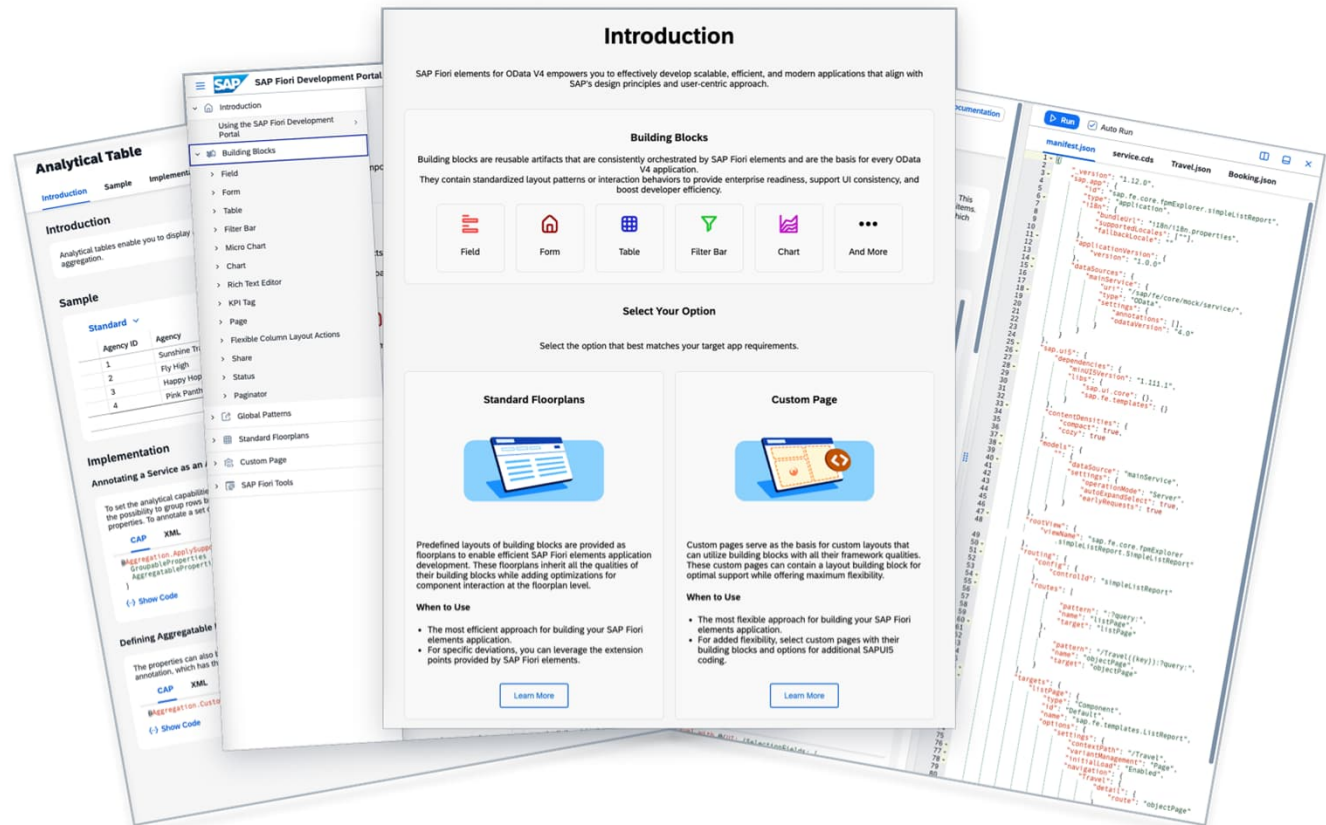


SAP Fiori development portal

Pick your set of building blocks

Explore in real-time features and their adaptation options on frontend and backend

All project members



[SAP Fiori Development Portal](#)

Blog # 1 of a mini series: [Introducing the SAP Fiori Development Portal: Your...](#)



SAP Fiori development portal



Roundtable

Sign up:

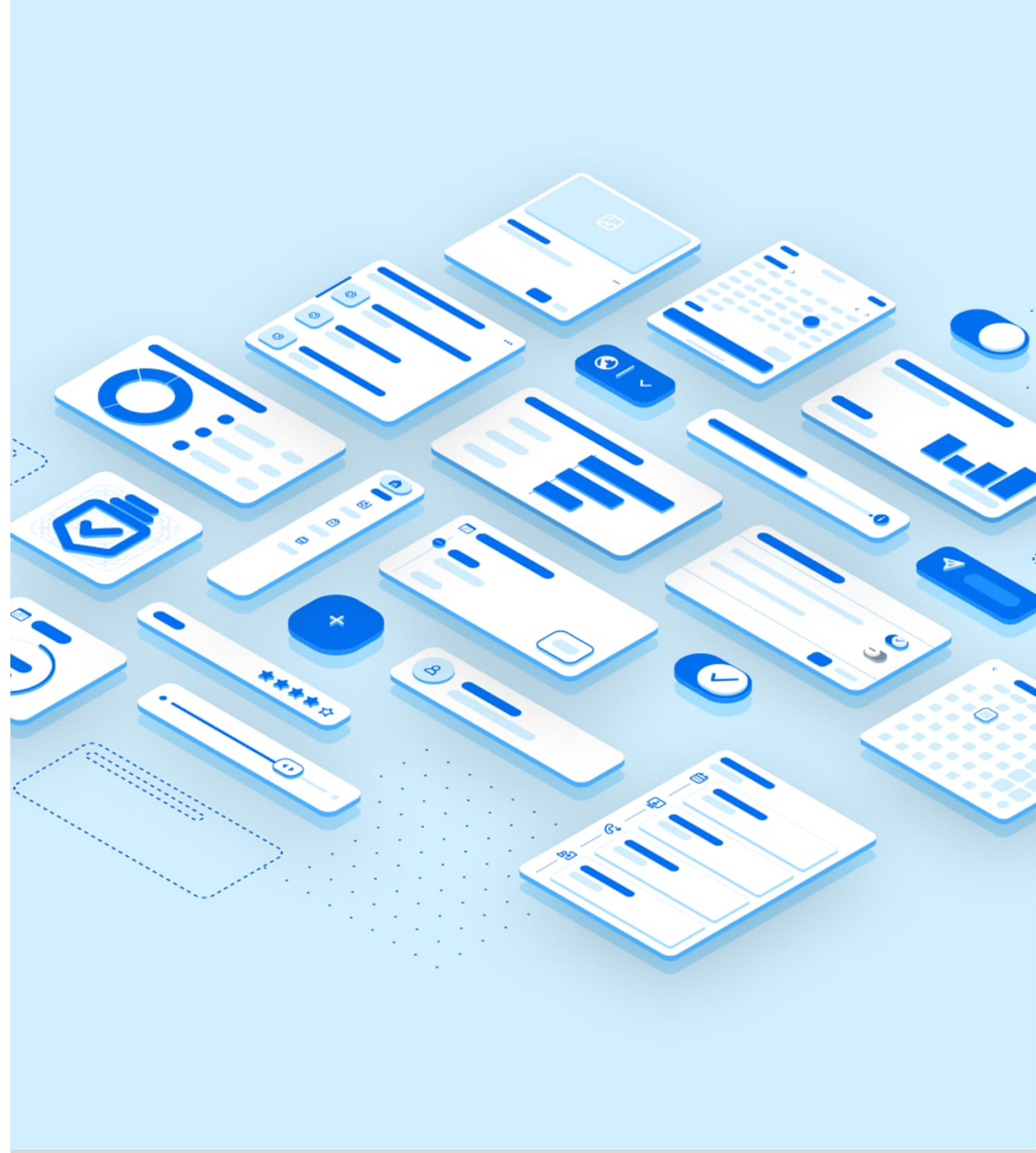


<https://tinyurl.com/elementsroundtable>

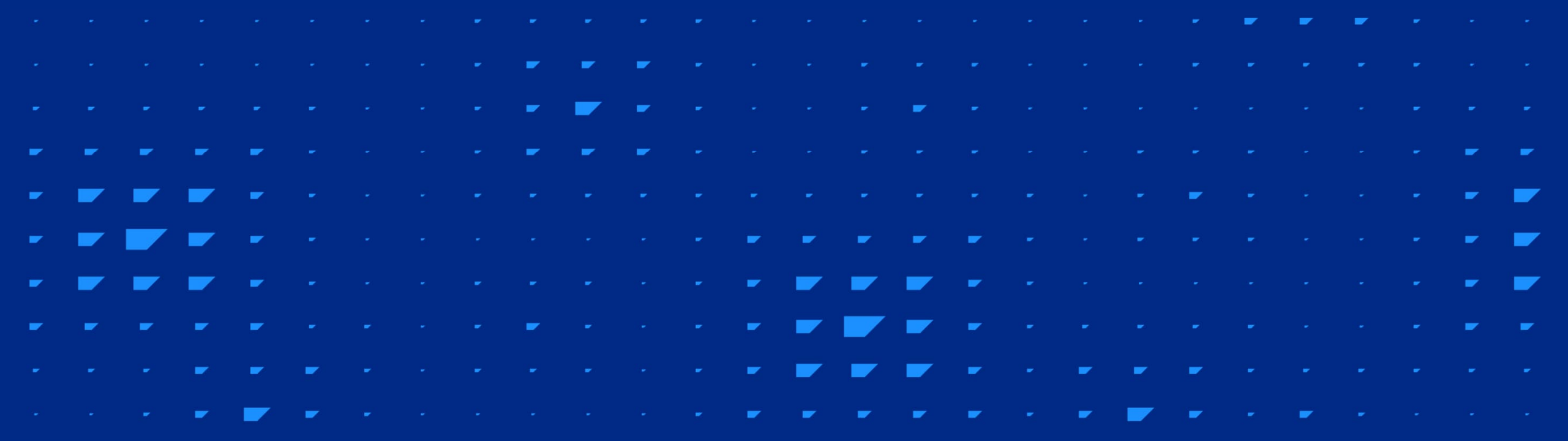


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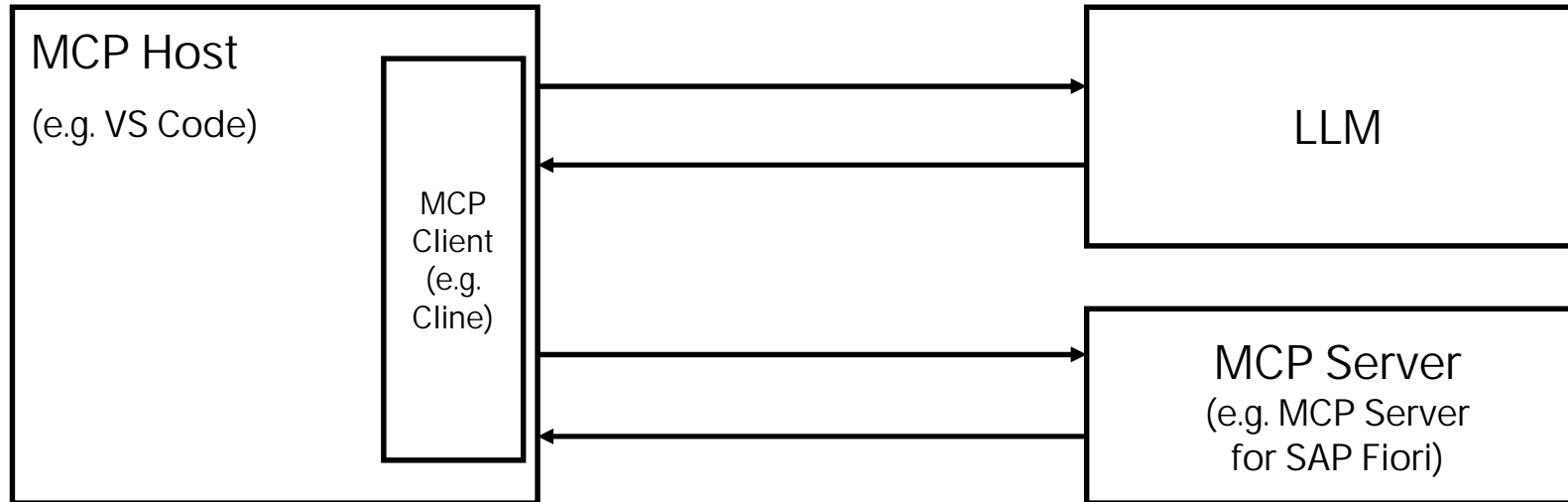
MCP server



Challenges of using AI in a development project

- LLM uses outdated information
- LLM lacks specialized access to resources
- LLM does not use domain specific best practices
- LLM creates artefacts from scratch
- LLM generates code which does not work

Model Context Protocol (MCP) servers – offer expertise to LLMs



- Tools Help with creation, modification of artefacts, provide access
- Context Information about projects and related objects
- Guidance Up-to-date documentation and best practices for AI-assisted development tasks

→ Goal: reduce errors, iterations, and token-usage

MCP servers from SAP for developers



Availability as

- open source, node module (CAP, UI5, SAP Fiori, MDK), Claude plugin (UI5, SAP Fiori)
- part of ADT for VS Code extension (ABAP)

MCP server for CAP

- Development of CAP applications

ADT MCP server

- Create and administer ABAP artefacts

MCP server for SAP Fiori

- Create or modify SAP Fiori elements applications

UI5 MCP server

UI5 Web Components MCP Server

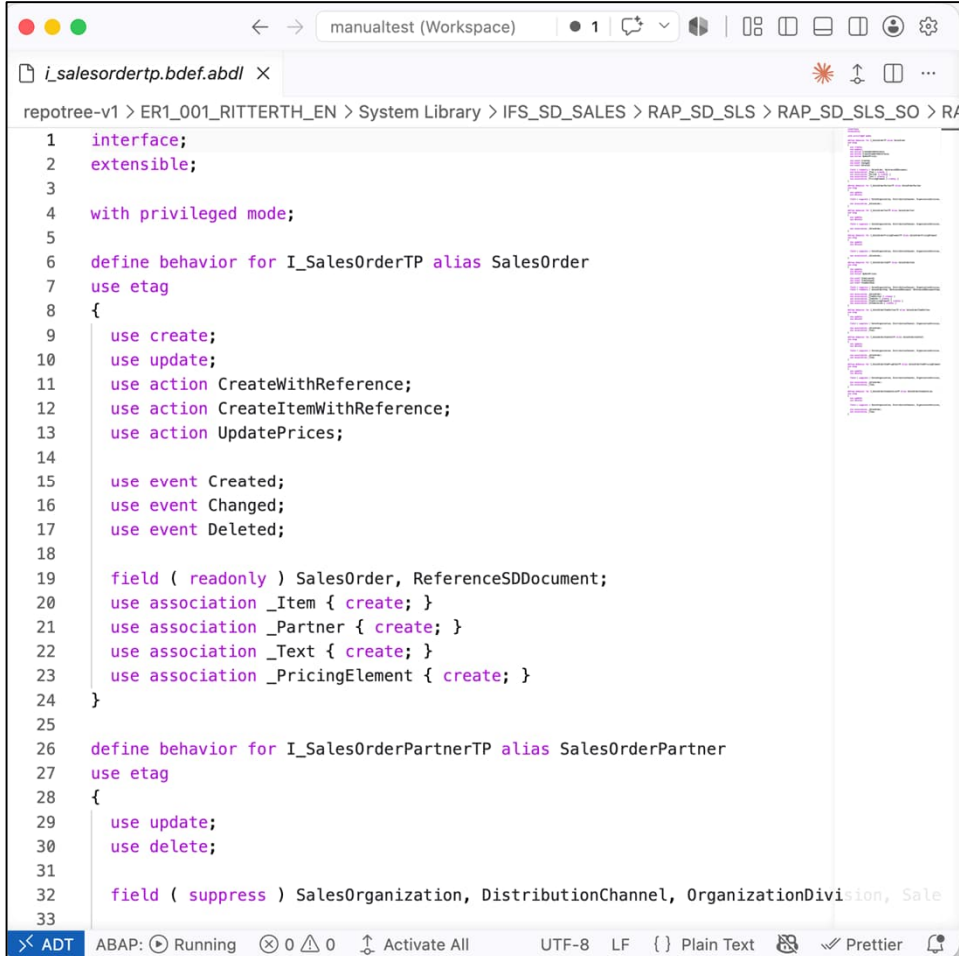
- Creation of new UI5 projects
- Detect and fix UI5-specific errors in the code
- Development of Web Applications with UI5 Web Components

MCP server for mobile development kit (MDK)

- Create or modify MDK based mobile apps

ABAP Development Tools for VS Code

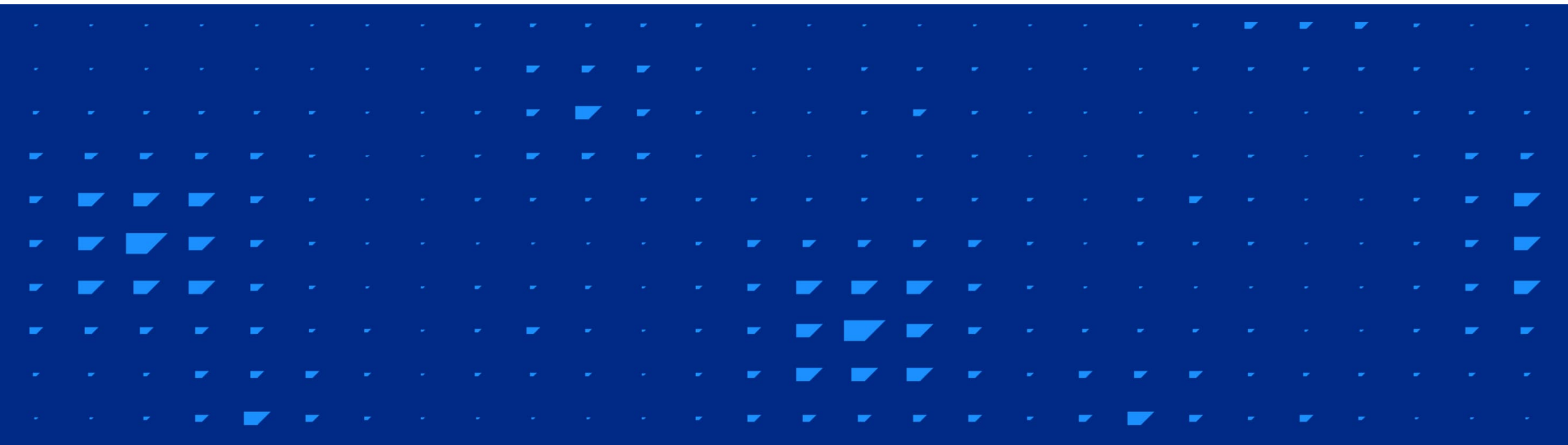
- Available on the [VS Code marketplace](#)
- Supports backends from SAP NetWeaver 7.3 EHP1 SP04 or higher
- First version focuses on RAP UI service development. Includes MCP server supporting ABAP development via AI agents
- See [announcement blog post](#) and [roadmap](#) for more information on the next releases



The screenshot shows the Visual Studio Code editor with the ABAP Development Tools (ADT) extension. The editor is displaying the file `i_salesordertp.bdef.abdl`. The code is an ABAP interface definition for `I_SalesOrderTP`. The code includes the following elements:

```
1 interface;
2 extensible;
3
4 with privileged mode;
5
6 define behavior for I_SalesOrderTP alias SalesOrder
7 use etag
8 {
9     use create;
10    use update;
11    use action CreateWithReference;
12    use action CreateItemWithReference;
13    use action UpdatePrices;
14
15    use event Created;
16    use event Changed;
17    use event Deleted;
18
19    field ( readonly ) SalesOrder, ReferenceSDDocument;
20    use association _Item { create; }
21    use association _Partner { create; }
22    use association _Text { create; }
23    use association _PricingElement { create; }
24 }
25
26 define behavior for I_SalesOrderPartnerTP alias SalesOrderPartner
27 use etag
28 {
29    use update;
30    use delete;
31
32    field ( suppress ) SalesOrganization, DistributionChannel, OrganizationDivision, Sale
33
```

Demo



Demo recap

- Using VS Code, GitHub co-pilot, RAP backend
- ABAP MCP server exposed by ADT for VS Code extension
 - Used to create the RAP service, activate artefacts, validate, etc.
 - Virtual file system used for modifications
- MCP server for SAP Fiori, installed as node module
 - Create the SAP Fiori elements app
 - Provide guidance and tools for modification
- Agents and skills to help with demo flow and orchestration of backend vs. frontend tasks

Example prompts used in the demo

1. List Available MCP Server Tools

List the tools and their description for the ADT MCP server and the MCP server for SAP Fiori in table format. Omit the MCP server prefix from tool names, group the tools semantically.

2. Create End-to-End App from Specification

Find the spec for our app project in the travel_spec folder. Make an implementation plan for RAP backend and SAP Fiori elements frontend. RAP artefacts have to go into package TEST_CFG_NRW in system UI3. Consult the appropriate skills.

3. Add Validations and Determinations

Next I pick your proposal, add validations for TripEndDate > TripStartDate, on save/activate, and create. Mark both fields when the problem occurs. Also give the two fields a better human readable label.

4. Modify Fiori App Layout

I want that the data loads automatically when I open the list report of the travel management app. I also want to see the object page next to the list of trips shown in the list report. Use the functions of the Fiori MCP server, don't edit the files.

Roundtable

Sign up:

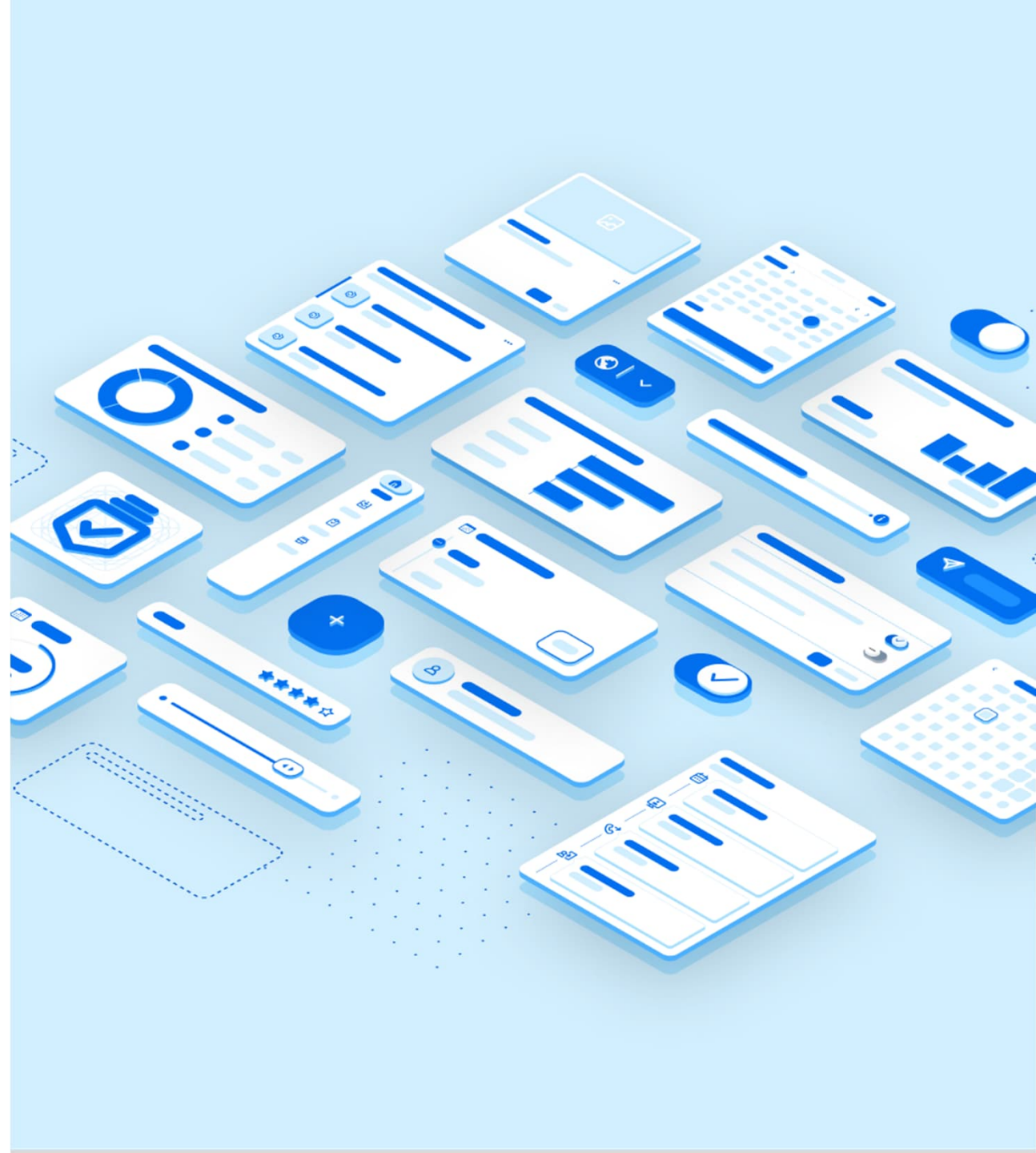


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Thank you!



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