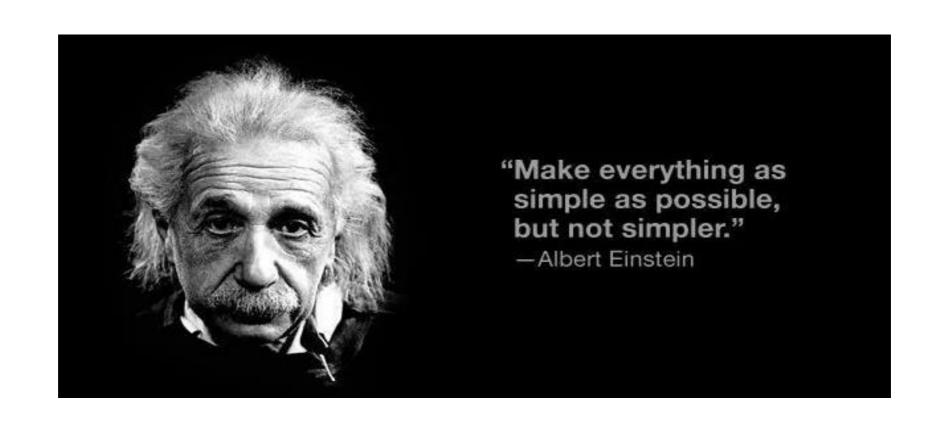
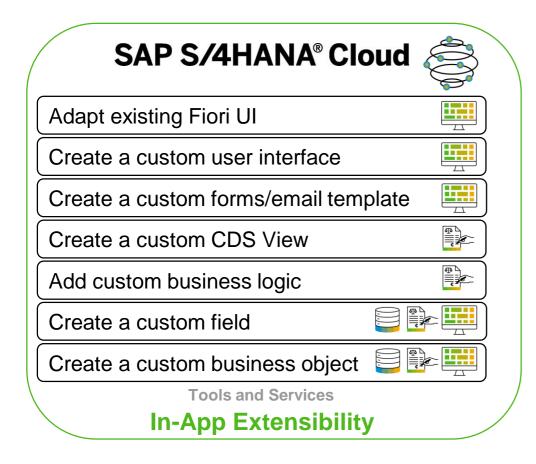
In-App Extensibility



In-App Extensibility



In-App Extensibility; Enrich the core

- Variants of standard processes and business logic (for example, micro-vertical solutions, localization)
- Focus on company-owned business documents (for example, legal compliance)
- Analytics extensibility (for example, tailored operational reporting for minimized asset allocation)

User Interface Layer



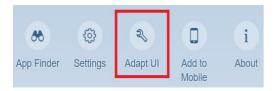
Application Layer

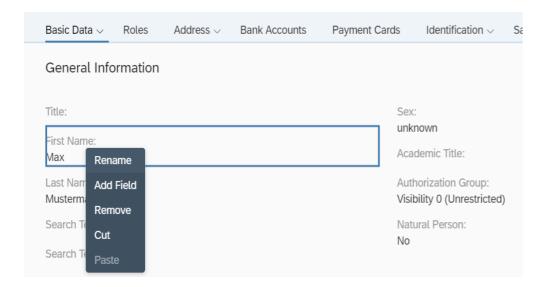


Database Layer



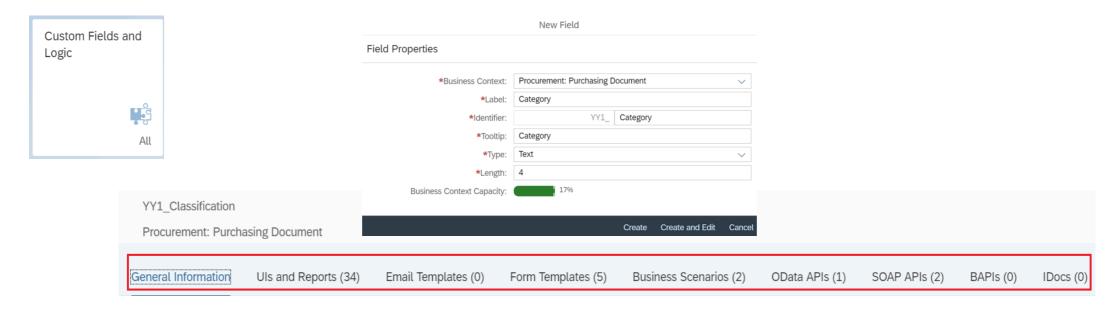
Adapt existing Fiori UI





- Change a standard UI to fit the desired usage in a specific business context
- Change the UI the following:
 - Hide fields in a form, table, or filter, hide groups and areas
 - Rename labels
 - Add field to UI from field repository
 - Move form field or UI group, create new groups and move fields into, combine fields into one line, split combined fields
 - Define new filter and table variants

Custom Fields

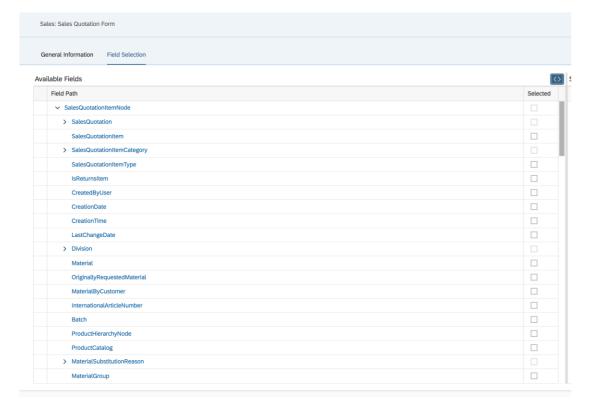


- Create new fields in the application's business context
- Choose different data types (e.g. Number, Text, Associations to SAP Object) to fit the desired usage
- Use this app to create your own fields and enhancement implementations to customize applications and their Uls, reports, email templates, and form templates
- Make your field available in other languages

Custom Data Source Extensions



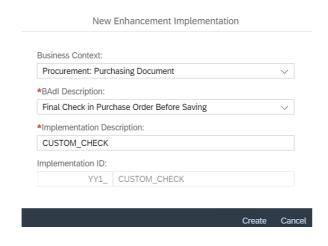


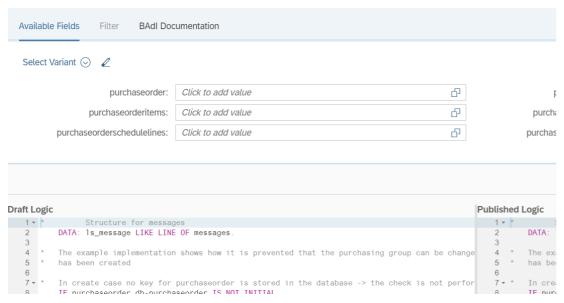


- Data source extensions enables users to add additional fields delivered with SAP Standard Objects
- Data Source Extensions provide read access to this standard fields

Custom Logic



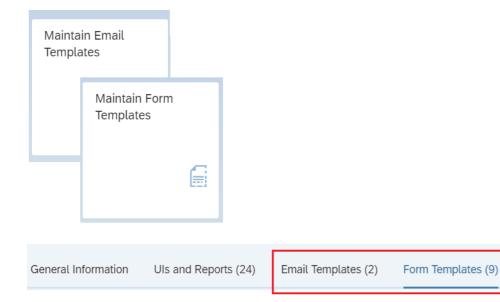




- Extend your business processes
- Make use of restricted ABAP Code in Custom Logic
 - Not allowed: any DB operation except selects from released views, tweaking new tasks, dynamic programming, code generation
- Test draft code before publishing
- BAdI Documentation and sample code is provided

Custom forms and email templates

Creation



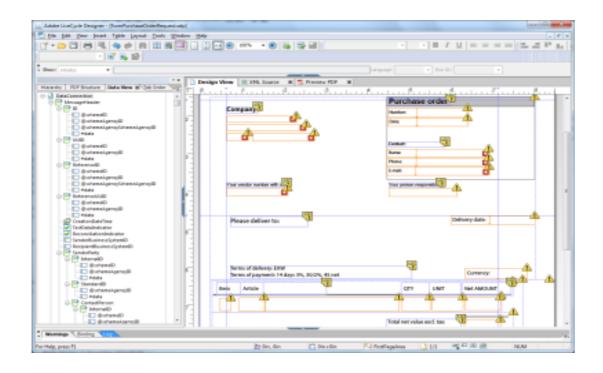
Form Templates

Description	Field Usage	
Credit Memo Request PDF Output	Disabled	Enable Usage
Debit Memo Request PDF Output	Disabled	Enable Usage
Sales Cash Sale PDF Output	Disabled	Enable Usage
Sales Contract PDF Output	Disabled	Enable Usage

- Create a new custom Email or Form template based on an existing data source
- Extend your form and email templates with new custom fields
- Reuse existing templates

Custom forms and email templates

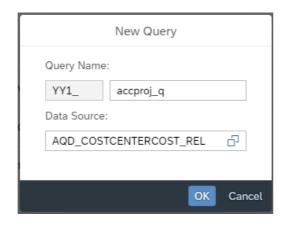
Adjust using the Adobe® LifeCycle™ Designer



- One-stop design tool for Form- and Emailtemplates
- Leveraging the SAP S/4HANA Cloud data sources (OData services and CDS Views)

Custom Queries



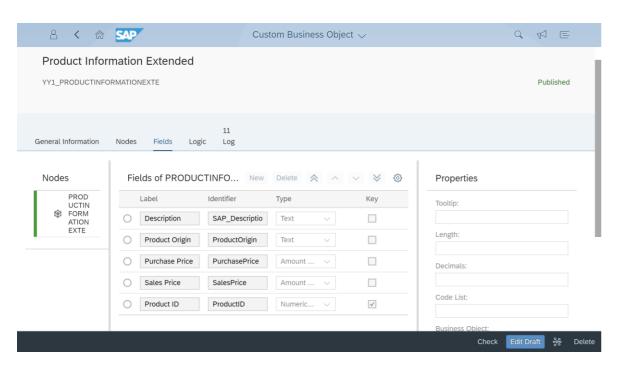


TSM Sales Order Item Query (undefined) General >>> Field Selection >>> Display >>> Available Fields (16) Search Available Fields Тур Selectio Label Name **✓** GrossAmount GrossAmount **~** GrossAmountCurrency GrossAmountCurrency Id Id **ItemNumber** ItemNumber **V OrderQuantity** OrderQuantity

- Search for a query
- Create a new query
- Add or remove custom fields in the new query
- Create Restricted Measures, Calculated Measures and User Input Filters
- Create Hierarchies
- Preview result sets after modifying the query
- Use custom CDS views as a data source
- Reuse pre-delivered queries

Custom Business Object



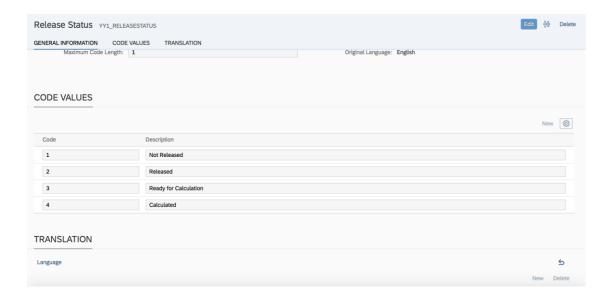


- Create your own business objects and thus the corresponding database table
- Generate Create and Update OData services for your custom business objects
- Implement custom logic in your custom business object
- Generate your own UI for your custom business object

Custom Business Object

Custom Code List

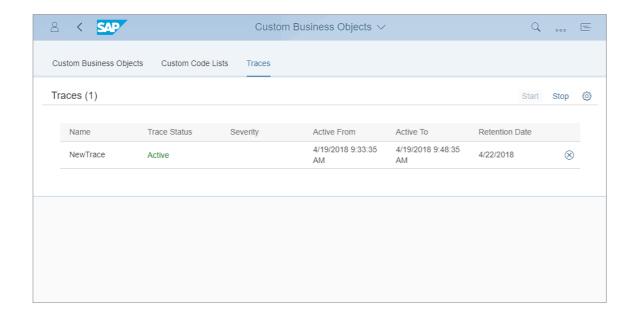




- You can reuse a code list in several custom business objects
- A code list consists of code values (example: enUS) and code value descriptions (example English (US))
- After a code list hast been transported, you cannot modify or delete code values anymore
- Code values descriptions can be translated

Custom Business Object

Tracing



- Tracing can be used to see which determinations, validations and actions of which custom business object and nodes are being processed in which order.
- You can also trace values of the input, output and changing parameters of validations, determinations, actions and the duration of their execution

Data privacy policy for Custom Fields and Custom Business Object

Custom fields and custom business objects cannot be marked as relevant for Data Protection & Privacy (DP&P) and cannot be blocked or deleted. Please don't store DP&P relevant content in custom fields or custom business objects

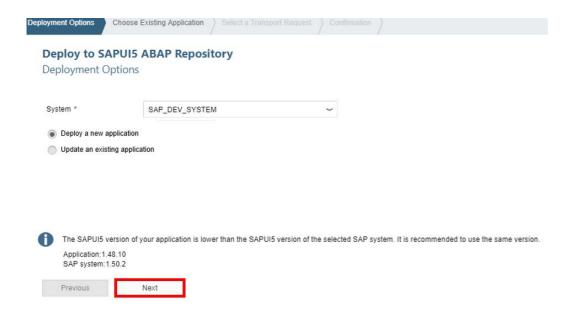
Custom Fields:

https://help.sap.com/viewer/f544846954f24b9183eddadcc41bdc3b/1805.500/en-US/57909455bf7c4fdd8bcf48d76c1eae33.html

Custom Business Object:

https://help.sap.com/viewer/f544846954f24b9183eddadcc41bdc3b/1805.500/en-US/b45696ca0d9143cba040797e9c71aa44.html

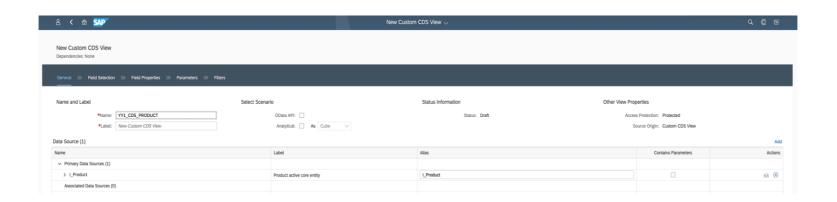
Create a custom user interface in SAP S/4HANA Cloud



- Create you own custom user interface using SAP
 Web IDE service of the SAP Cloud Platform
- Deploy your UI back to the SAPUI5 ABAP Repository of SAP S/4HANA Cloud
- Step by step tutorial: <u>https://www.sap.com/developer/tutorials/abap-custom-ui-tile.html</u>

Custom Core Data Services (CDS) views

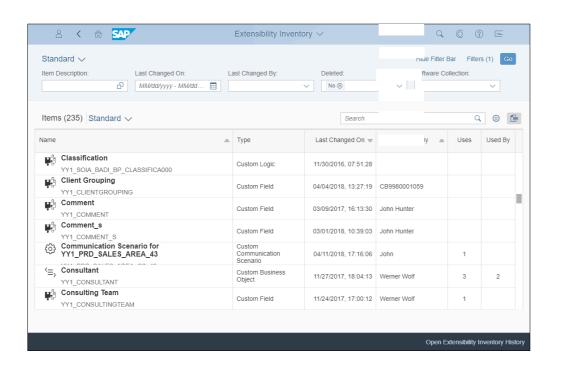




- You can use CDS view to:
 - build new analytical cubes and queries
 - consume them in custom code extensions ("BAdIs")
 - expose them as read OData service

Extensibility Inventory Application



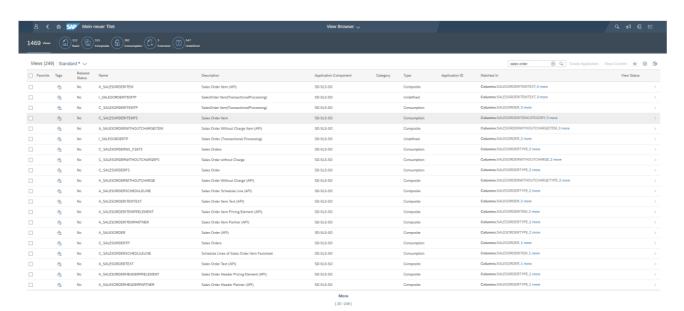


- Display an overview of your extensibility items and view associations or dependencies between various extensibility items
- See how importing or exporting extensibility items affect other extensibility items

View Browser

One stop shop for CDS Views





- Displays Core Data Services (CDS) views
- Search for views, view types, tables and fields
- Accessible with business role: SAP_BR_ANALYTICS_SPECIALIST

Supporting Extensibility tools SAP S/4HANA Cloud

SAP Extensibility Explorer

Get a comprehensive overview about all extension options around SAP S/4HANA Cloud (In-App and Side-by-Side Extensibility)

Extensibility Cockpit

Overview about all extension objects of a business context in SAP S/4HANA Cloud

Extensibility Inventory

You can display an overview of your extensibility

View Browser

Search and display analytical and non-analytical queries

Roles & Authorization

Access to extension objects can be restricted

items and view associations or dependencies between various extensibility items

Transportation & Lifecycle Management

Export and Import Software Collection are the apps used for transport management of extended objects.





Thank you.

