The Container Principle

BPaaS processes a workflow along the principles of an assembly line. During conventional assembly line processing **containers** pass through a production line. In earlier days the to be assembled product (for example a camera) was transported in trays.

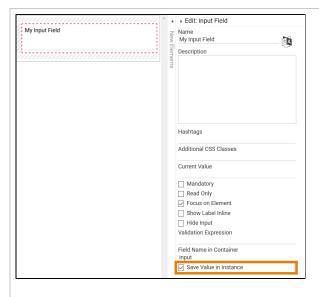
Symbolically an event driven process chain (EPC) presents the assembly line, on which the data containers run. Each data container contains multiple data areas:

- Tracking: "Routing Slips" where all previous as well as future stations are noted.
- Workspace: Common area where any kind of data may be saved. This area is also used by the system to file system-relevant data.
- Instance: Subarea of the workspace and the area where steadily events are filed to be saved in the database later on.

The Container

Data that is generated when an app is called and process steps are executed is referred to as **instances**. Instances are consequently datasets created during app execution. They are saved and managed in a so-called **Container**.

The value of a form field is in any case saved in the container. Therefore all values of the container are **te mporarily available** during the **runtime of the app.** If the values are not saved to the database as well, the container values are lost after the process ends.



Each form field offers the option Sa ve Value in Instance.

Activate this option if you want to save the value of the field permane ntly in the datab ase once the form is complete d and saved.

The values of a form field are also saved in container if the option Sa ve Value in Instance remains deactivat ed

Since container values are only available temporarily, you need to save an instance to store it permanently in the database. This can be done either via a preconfigured **Save** button or programmatically.



Additional information can be found at page Saving and Deleting Instances.

On this Page:

- The Container
 - Field Name in Container
- Displaying Container Data

Related Pages:

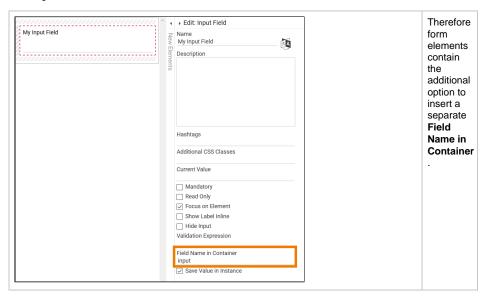
- Executing Processes
 - Form Elements
 - Saving and Deleting Instances

Related Documentation:

- BPaaS Entwicklerhandbuch (German)
 - Flüchtige Werte in die Datenbank speichern

Field Name in Container

Each form element is saved to the database by a unique, technical key. Generally an element is saved in the container by its name. This may however not always be desirable, since it could for example lead to doubling.



You can find the field **Field Name in Container** in the Edit Sidebar of a form element. Here you can enter a key different from the element's name by which the values will be saved in the container. If a **Field Name in Container** is defined, you always need to use the Field Name in Container instead of the element's name to enable access to the corresponding data.

Inserting a Field Name in Container is especially useful if the element's name is very long, contains special characters or spaces. Using a shorter Field Name in Container makes it much easier to reference the value, for example in Worker coding.

The content of the Field Name in Container is a JSON dot notation, therefore hierarchic in its structure. This means: Using dots in the Field Name in Container creates substructures.

Example: Creating a section with substructures

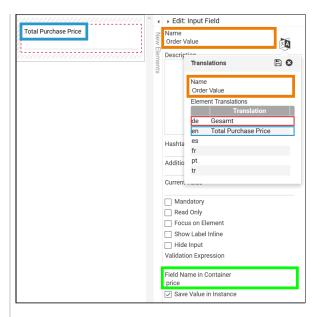
Field Name in Container	Possible Content
Invoice	Creates a section Invoice in the container which can contain complex data or primitive data types.
Invoice.Number	Creates the substructure Number which itself can contain complex data or primitive data types.
Invoice.Date	Creates the substructure Date which itself can contain complex data or primitive data types.



The **Field Name in Container** is a technical identifier often used for additional coding. Therefore the Field Name in Container should not contain any spaces, special cases or umlauts.

Make sure that an element's key is always **unique**. If multiple fields are named alike or were assigned the same Field Name in Container, errors will occur during app execution.

Example: One element - various names



The form eleme nt Input Field was assign ed the Na me Or der

Value.

• Transl ations have also been saved:

• G

s a mt f

е

or Germanlangu

a g e. • T

o t al P u rc h a

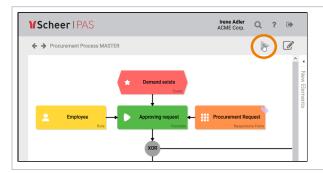
s e P ri ce f o r E n

gl is h la n g u a g e.

In the form itself the Englis h transla tion T otal Purch ase Price is displa yed, as the curren t desi gner uses the **BPaa** S Editor Englis h. • The saved Field Name in Conta iner is price. Now the value of this Input . Field is saved in the contai ner under the

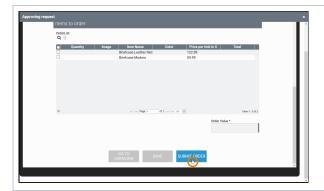
Displaying Container Data

During testing it may be helpful to have a look at the container content. You have simple access to the container content in test mode. In the reference process' last form insert a Button and activate the option **Go to Next Step**.

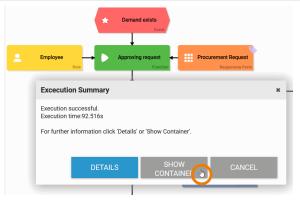


Start the reference model's execution via the Play button.

name price.



Capture the form data during test mode.



Clicking of the correspondi ng button ends the app and an **Execution Summary** is displayed.



e fr a m e b е t w е e n st a rt а n d e n d o f t h е е x e С u ti 0 n.

Use the button Sho w Container to review the container's content. This allows temporary access to all form and other data elements at runtime.

```
Current Container Content
                                                         ×
procurementName: Irene Adler
procurementEmail: irene.adler@acme-corp.com
procurementNumber:
Procurement Request - Main Data:
Responsive Element-w60n:
procurementList: [
  "orderQuantity": "",
  "itemImage": {
   "0": {}
  "itemName": "Briefcase Leather Retro",
  "orderColor": "",
  "itemPriceUnit": "122.89",
  "itemTotal": "",
  "dbRef": "acmeltems/cfb176a0-5ac2-11e9-
a129-115606247b24",
  "uuid": "cfb176a0-5ac2-11e9-a129-115606247b24"
  "orderQuantity": "",
  "itemImage": {
   "0": {}
 "itemName": "Briefcase Modern",
"orderColor": "",
"itemPriceUnit": "59.99",
  "itemTotal": "",
  "dbRef": "acmeltems/21f2a230-5ac4-11e9-
a129-115606247b24",
  "uuid": "21f2a230-5ac4-11e9-a129-115606247b24"
Items to order:
procurementValue:
RootGrid:
ACME Procurement Request:
                                        CANCEL
```

A click on S how Container opens the pop-up Current Container Content showing all information saved in the container.

```
Current Container Content
                                                       ×
procurementName: Irene Adler
procurementEmail: irene.adler@acme-corp.com
procurementNumber:
Procurement Request - Main Data:
Responsive Element-w60n:
procurementList: [
  "orderQuantity": "",
  "itemImage": {
   "0": {}
  "itemName": "Briefcase Leather Retro",
  "orderColor": "",
  "itemPriceUnit": "122.89",
  "itemTotal": "",
  "dbRef": "acmeltems/cfb176a0-5ac2-11e9-
a129-115606247b24",
  "uuid": "cfb176a0-5ac2-11e9-a129-115606247b24"
  "orderQuantity": "",
  "itemImage": {
   "0": {}
  "itemName": "Briefcase Modern",
"orderColor": "",
  "itemPriceUnit": "59.99",
  "itemTotal": "",
  "dbRef": "acmeltems/21f2a230-5ac4-11e9-
a129-115606247b24",
  "uuid": "21f2a230-5ac4-11e9-a129-115606247b24"
It ams to order:
procurementValue: 182.98
PootGrid:
ACME Procurement Request:
                                      CANCEL
```

In this popup, you can use your browser's search function (in most browsers available via Ctrl+F).

In the Exam ple a match was found for the search term value.

Expert Advice

Alterna tively develo pers can enter the Field Name Contai ner into the browse consol e: con sole. info (cont ainer getWo rkspa ce(). getDa ta());