

# **SciCat - Frontend&Microservices**

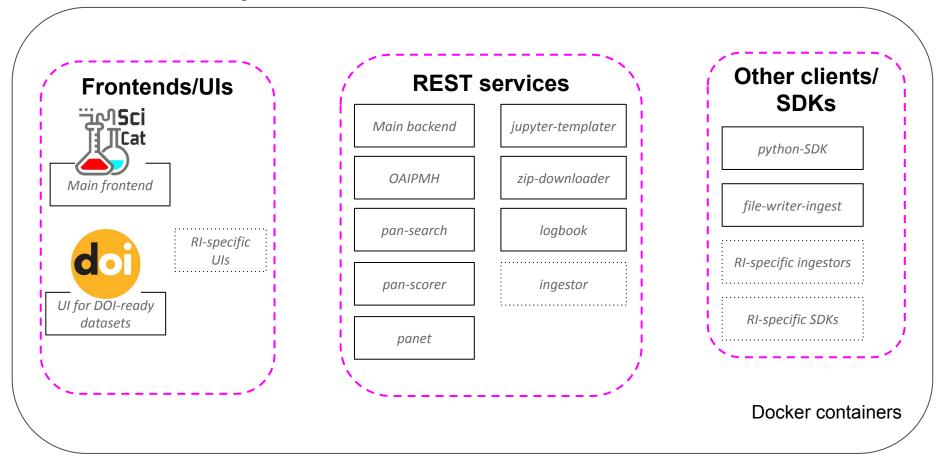
Grenoble, 2024/09

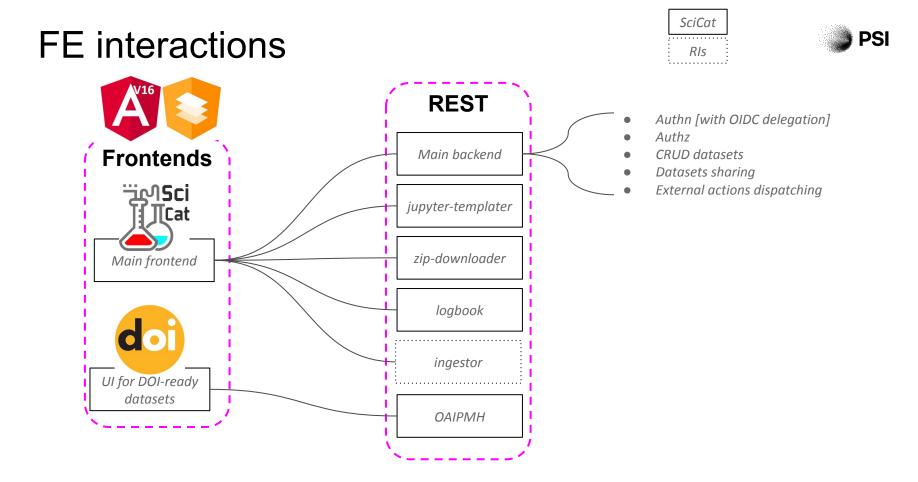
Paul Scherrer Institut

### SciCat ecosystem

SciCat RIs







## Main Frontend architecture



- **Togglable** functionalities
- Split into angular **modules** (by functionality)
  - Often lazy loaded
  - Organised in angular components
  - Internal components dedicated routing
  - Guards protected
- Shared module for **common functionalities**, e.g. size display
- Interaction with additional (to main backend for CRUD metadata) HTTP SciCat services,
  e.g. logbook service for logbook linking
- <u>NgRx</u> for **state management** (in memory state management)
- Some components are **standalone**

## **Togglable functionalities**

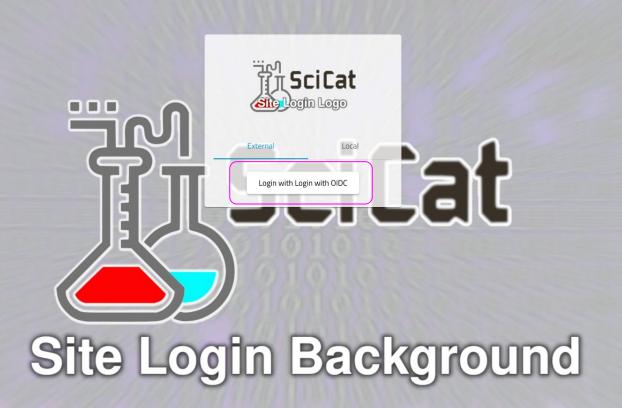
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### Angular (functional) modules 1/2

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Datasets /		(lazy loaded) angular modules	Datasets
Search = Clear	My Data All Public Data	Items per pa	ge: 25 • 1 - 19 of 19
Text Search	Rame	<b>е?</b> Түре	Start Time Proposal ID Proposals
Location	main/mantid-files	derived	02-23 Tue 14:46 Samples
Group	main/original_reduced_data	raw	2021- 02-23 Tue 14:46
Type  Keywords	main/nexus_files	derived	2021- 02-23 Tue 14:46
Start Date - End Date	Tests_Carto.tar	raw	2021- 02-20 Sat 14:46
+ Add Condition	Globalmap_268_noslope_q0.033_lmax_1_9.zip	derived	2021- 02-20 Sat 14:46
	MOF_data.hspy	derived	2020- 07-04 Sat 15:46
	record/277	derived	2020- 04-15Analysis Wed 15:46

### Angular (functional) modules 2/2

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Datasets PID. SAMPL	E. P R E F I X/hzdr ds1 /	nents Lifecycle
General Information		
Name	record/277	
Description	-	
PID	PID.SAMPLE.PREFIX/hzdr_ds1	Dataset-module specific angular components with (lazy) routing
Түре	derived	
Creation Time Keywords	2020-04-15 15:46	Additional HTTP service
	🖍 Edit	Guard (isAdmin)
Creator Information		
Owner	Hao Chu	Shared module component
Investigator	Hao Chu	(size pipe)
Contact Email	email.com	
Owner Group	aGroup	NgRx state management
Access Groups		
File Information		Standalone component
Source Folder	Analysis 2 TIB	

## Open points for microFE architecture



- Guards are shared between modules
- Some module components are used in other modules
- State management is not always restricted to the relative module
- Could we use a standalone component or a module to test microFE feasibility?