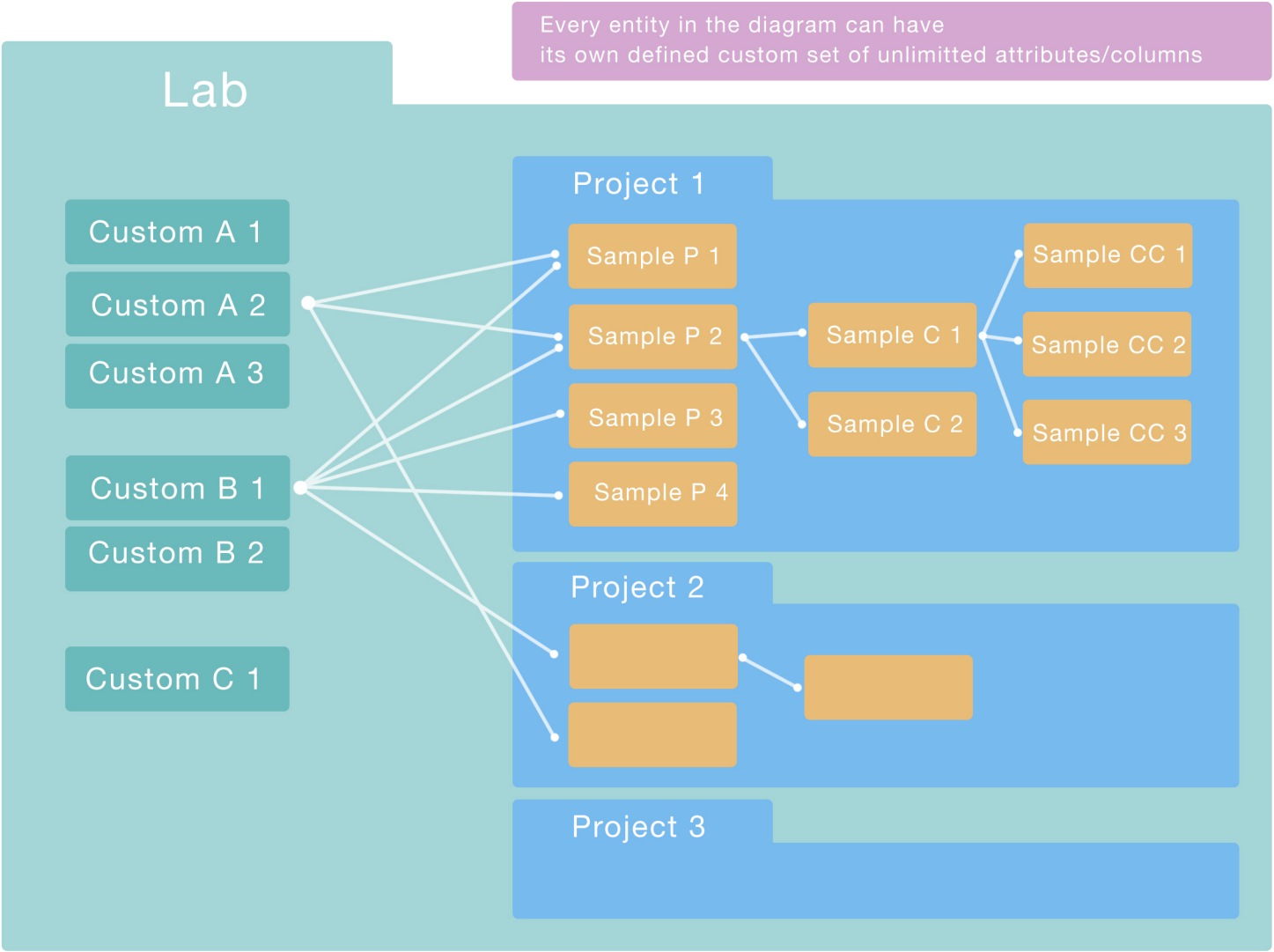


Data Model

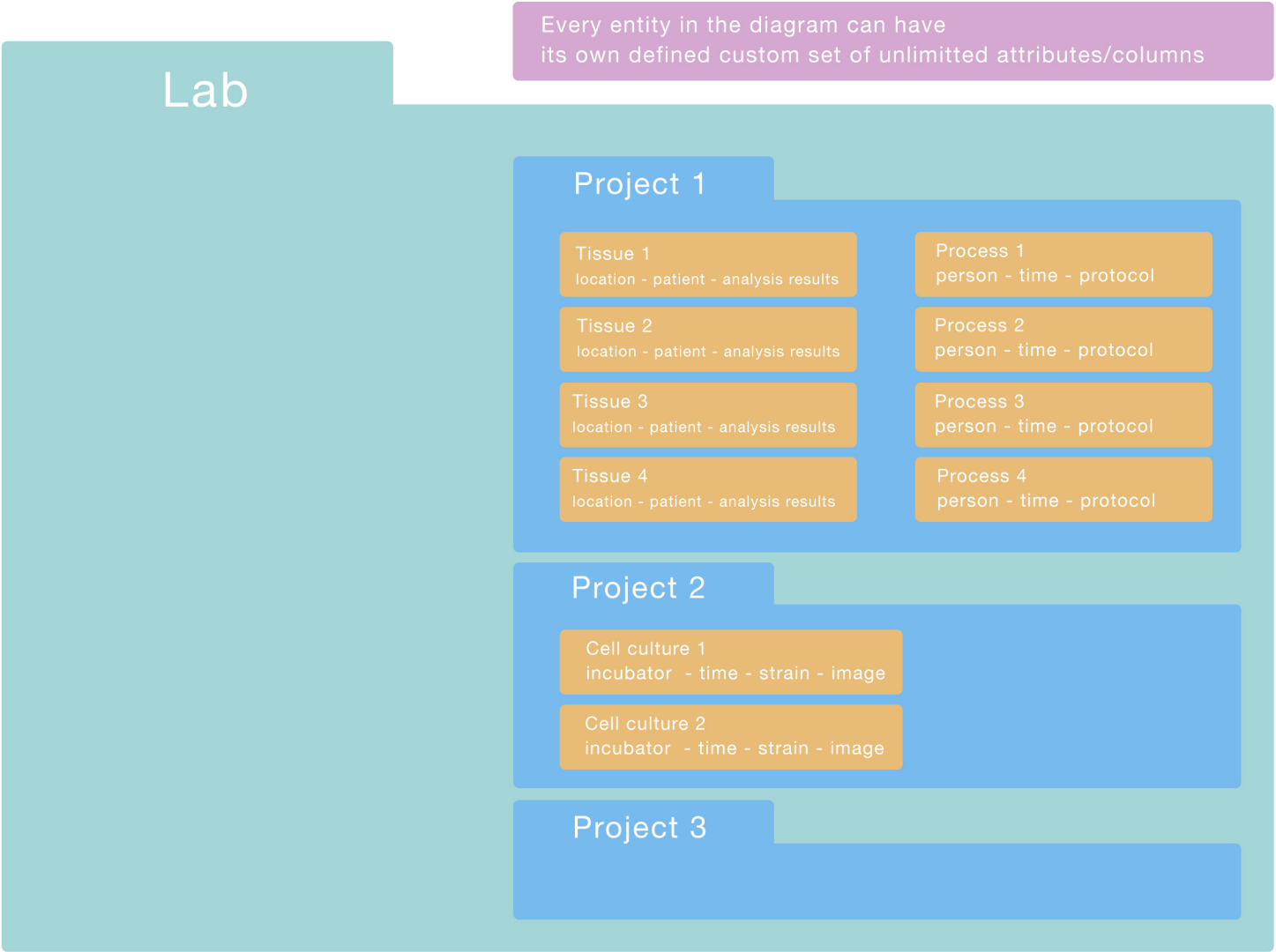
Check how can you model your data in FlexyLIMS

- ✓ You will need to define your own entities
- ✓ You will need to define attributes/columns for the entities above and for your projects

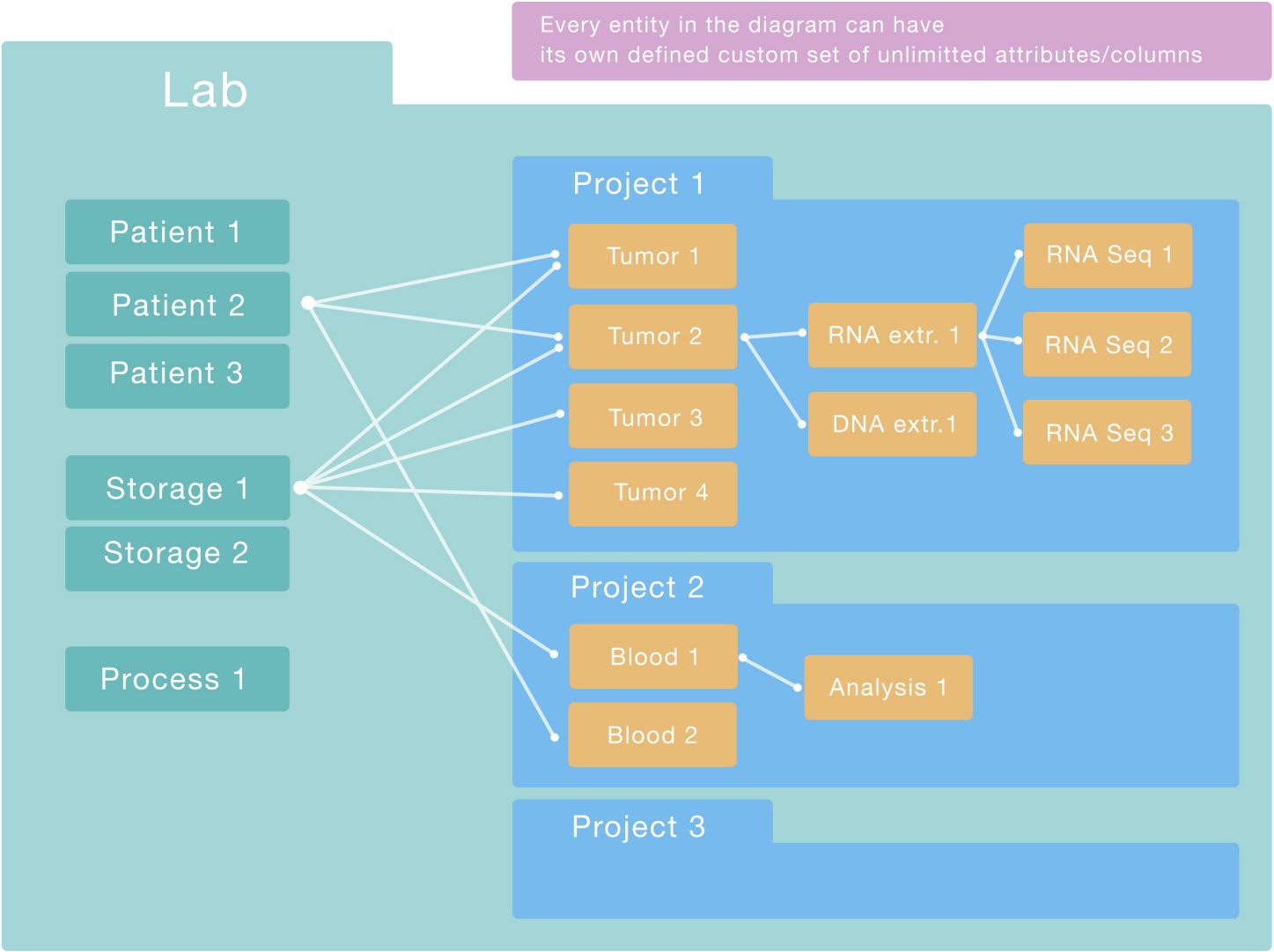
Genera Schema



Example 1



Example 2



API

Check out how you can use FlexyLIMS RESTful API

There are three end-points for the API available via <https://flexylims.thecrick.org/flexilims/api>:

- Get
- Update
- Save

There is a token-based authorization supported

- To get a token you will need to login/authorise once via the API

API Authentication

You will need to authenticate once via <https://flexylims.thecrick.org/flexilims/api/authenticate> to get a token. All subsequent requests will be authenticated using this token.

For the first authentication provide your username and password (encrypted) with the above URL with a “Basic” authorisation type in your request Headers. Doing so you will receive a token.

You will find the token in the body as well as a cookie in the response.

GET <https://flexylims.thecrick.org/flexilims/api/authenticate>

Params **Authorization** Headers (7) Body Pre-request Script Tests Settings

TYPE
Basic Auth

The authorization header will be automatically generated when you send the request. [Learn more about authorization](#)

Username: demo
Password:
☐ Show Password

Body Cookies (1) Headers (5) Test Results

Pretty Raw Preview Visualize

fb72bffa-aefd-432d-9c78-ad15c7cc39b1

GET <https://flexylims.thecrick.org/flexilims/api/authenticate>

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Key	Value	Description
<input checked="" type="checkbox"/> Authorization ⓘ	Basic ZGVtbzpkZW1v	
<input checked="" type="checkbox"/> Postman-Token ⓘ	<calculated when request is sent>	
<input checked="" type="checkbox"/> Host ⓘ	<calculated when request is sent>	
<input checked="" type="checkbox"/> User-Agent ⓘ	PostmanRuntime/7.26.8	
<input checked="" type="checkbox"/> Accept ⓘ	*/*	
<input checked="" type="checkbox"/> Accept-Encoding ⓘ	gzip, deflate, br	
<input checked="" type="checkbox"/> Connection ⓘ	keep-alive	

Body Cookies (1) Headers (5) Test Results

Pretty Raw Preview Visualize

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API Authentication

For your other API requests, you need to put the token in the Headers as a “Bearer” authorisation type.

POST

https://flexylims.thecrick.org/flexilims/api/save

ParamsAuthorization●Headers (10)Body●Pre-request ScriptTestsSettings

TYPE

Bearer Token

The authorization header will be automatically generated when you send the request. [Learn more about](#)

Token

fb72bffa-aefd-432d-9c78-ad15c7cc39b1

POST

https://flexylims.thecrick.org/flexilims/api/save

ParamsAuthorization●Headers (10)Body●Pre-request ScriptTestsSettings

Headers

Hide auto-generated headers

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	Authorization ⓘ	Bearer fb72bffa-aefd-432d-9c78-ad15c7cc39b1	
<input checked="" type="checkbox"/>	Postman-Token ⓘ	<calculated when request is sent>	

API CRUD End-points

- Get end-point
- GET request
- <https://flexylims.thecrick.org/flexilims/api/get>
- Parameters:
 - type
 - projectId
(required if the type is in the project scope. The ID can be found on the FlexyLIMS homepage > project > more)
- Response
 - JSON
 - XML

API CRUD End-points

- Update end-point

- PUT request

<https://flexylims.thecrick.org/flexilims/api/update>

- Parameters

projectId

type

queryKey (optional, to query the subset of items to update)

queryValue (optional , to query the subset of items to update)

updateKey

updateValue

API CRUD End-points

- Save end-point
- POST request
- <https://flexylims.thecrick.org/flexilims/api/save>
- Parameters:
 - JSON
 - type
 - Type of the item
 - name
 - Name of the item
 - project_id
 - Project ID that the item belongs to
 - origin_id (optional)
 - The ID of the origin (parent item) of this item. Must be of a type that is defined in the Project scope.
 - attributes (optional)
 - Map of all the attributes for the item
 - other_relations (optional)
 - List of the IDs that related to this item. Must be of a type that is defined in Lab scope.
- Response
 - JSON of the item created

