

# Metadata Editor

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## Motivation

- Direct use of structured data is very impractical for scientists.
- Data integration into existing user-interfaces is time-consuming and requires a deep knowledge of various technologies.
- Validation of metadata before sending REST requests represents a fundamental quality.

## Aims

- Provide a Graphical User Interface (GUI) for a service.
- Intuitive and generic generation of forms based on provided JSON Schemas.
- Validation of JSON metadata.
- Execution of CRUD (Create, Read, Update, Delete) operations.

## Method

- JavaScript library allowing the generation of web forms as well as the management of JSON metadata in an intuitive and generic way.
- Validate JSON metadata based on a developer-provided JSON schemas.
- Perform CRUD operations and additional operations in case further requirements need to be fulfilled.

## RDA Connection

- Adoption of the Collection Registry as a use case to test various functionalities of the editor.
- Collection Registry is an implementation of the Collection API recommended by the RDA Research Data Collections Working Group and has been developed at the Data Exploitation Methods department.
- Provide a GUI for the service to make the service easier-to-use and more intuitive for the scientists.
- Provide the JSON metadata through the generated web forms.
- Validation of the JSON metadata against a defined JSON schema enabling the user to provide correct inputs.

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**Metadata Editor:** <https://github.com/kit-data-manager/metadata-editor.git>  
**Collection API:** <https://github.com/kit-data-manager/collection-api.git>

## Example

JSON Schema

```
{
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "title": "Identifier"
    },
    "capabilities": {
      "type": "object",
      "title": "capabilities",
      "properties": {
        "maxLength": {
          "type": "number",
          "title": "maxLength"
        }
      }
    },
    "properties": {
      "type": "object",
      "title": "properties",
      "properties": {
        "ownership": {
          "type": "string",
          "title": "Ownership"
        }
      }
    }
  }
}
```

Generated Form

