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# hydra-python-core

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**Hydra**

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The `core library` is used heavily in both `hydrus` and `agent`. The core library has mainly two modules. The `doc_writer` and `doc_maker` module.



## DOC\_WRITER

The `doc_writer` module contains the implementation of Hydra specification classes, which are the core building pieces of any Hydra powered REST APIs. The classes can be found at <http://www.hydra-cg.com/spec/latest/core/#classes>. These classes are used to build the APIDOC from scratch. To see how we can generate APIDOC from scratch, please refer [this](#). The mapping of hydra classes and implementation of `doc_writer` is given below:

Table 1: Mapping

| Hydra Class                              | class name in <code>doc_writer</code> |
|------------------------------------------|---------------------------------------|
| <a href="#">hydra:SupportedProperty</a>  | HydraClassProp, HydraCollectionProp   |
| <a href="#">hydra:Status</a>             | HydraStatus                           |
| <a href="#">hydra:Operation</a>          | HydraClassOp, HydraCollectionOp       |
| <a href="#">hydra:IriTemplateMapping</a> | IriTemplateMapping                    |
| <a href="#">hydra:Link</a>               | HydraLink                             |
| <a href="#">hydra:Error</a>              | HydraError                            |
| <a href="#">hydra:Collection</a>         | HydraCollection                       |
| <a href="#">hydra:ApiDocumentation</a>   | HydraDoc                              |
| <a href="#">hydra:Class</a>              | HydraClass                            |

HydraEntryPoint class is the template for the `entrypoint`. Entrypoint is the location from where the agent discovers all the possible locations it can go to. The `hydrus` uses the `get` method of this class to generate the entrypoint of the API.





## **DOC\_MAKER**

The `doc_maker` module is used to parse existing JSON-LD Hydra based APIDOC. It throws error, if anything is not spec compliant. It uses the JSON-LD [expansion algorithm](#) before parsing the apidoc. The benefit this expansion provides over processing raw apidoc is the flexibility of parsing the IRIs. Some authors prefer expanded IRIs, some use compacted IRIs and some use mixture of both. So, to correctly able to parse all the IRIs we expand the IRIs and thus start parsing the doc after coming to the same page. This allows us to parse even more variety of apidocs. Then the small parsing engine traverses through entire doc and extracts classes, collections, links, property and status by calling appropriate methods of this `doc_maker` module.

Also another use case of `doc_maker` is to update the IRIs once the doc is generated by `doc_writer`. For example, if the server url changes, or api name changes, the changes can be reflected in the entire APIDOC by passing the doc to the `create_doc` method of the `doc_maker` with the updated parameters.

The `doc_maker` has following methods:

1. `create_doc` - To parse the doc or to update the doc according to new params.
2. `create_collection` - To parse the collection in `HydraCollection` of `doc_writer`
3. `create_class` - To parse classes in `HydraClass` of `doc_writer`
4. `create_operation` - To parse supported\_operations in `HydraClassOp`
5. `create_status` - To parse the status in `HydraStatus`
6. `create_property` - To parse the supported properties in `HydraClassProp`
7. `create_link` - To parse properties referencing other class or collection in `HydraLink`
8. `check_namespace` - To check if the url provided is in the correct namespace.



## 3.1 Create a new API Documentation and a new HydraDoc object

The doc\_writer can be used to create an API Doc itself as defined below: The first step is to create a new HydraDoc object

```
1 from hydra_python_core.doc_writer import HydraDoc
2 # Creating the HydraDoc object, this is the primary class for the Doc
3 API_NAME = "api" # Name of the API, will serve as EntryPoint
4 BASE_URL = "http://hydrus.com/" # The base url at which the API is hosted
5 # NOTE: The API will be accessible at BASE_URL + ENTRY_POINT
6 # (http://hydrus.com/api)
7 # Create ApiDoc Object
8 api_doc = HydraDoc(API_NAME,
9                     "Title for the API Documentation",
10                    "Description for the API Documentation",
11                    API_NAME,
12                    BASE_URL,
13                    "vocab") # vocab is the name of vocabulary
```

The API Documentation has been created, but it is not yet complete. Classes, properties, and operations must be added to the Doc.

```
1 from hydra_python_core.doc_writer import HydraClass
2 # Creating classes for the API
3 class_title = "dummyClass" # Title of the Class
4 class_description = "A dummyClass for demo" # Description of the class
5 class_ = HydraClass(class_title, class_description, endpoint=False)
```

Classes need to have properties that allow them to store information related to the class. Similar to attributes in a Python class, these are stored as supportedProperty of the HydraClass. Properties are defined as HydraClassProp objects:

```
1 from hydra_python_core.doc_writer import HydraClassProp
2 # Create new properties for the class
3 # The URI of the class of the property
4 prop1_uri = "http://props.hydrus.com/prop1"
5 prop1_title = "Prop1" # Title of the property
6 dummyProp1 = HydraClassProp(prop1_uri, prop1_title,
7                              required=False, read=False, write=True)
```

Besides these properties, classes also need to have operations that can modify the data stored within their instances. These operation are defined as HydraClassOp and are stored in supportedOperation of the HydraClass

```
1 from hydra_python_core.doc_writer import HydraClassOp, HydraStatus
2
3 # Create operations for the class
4 op_name = "UpdateClass" # The name of the operation
5 op_method = "POST" # The method of the Operation [GET, POST, PUT, DELETE]
6 # URI of the object that is expected for the operation
7 op_expects = class_.id_
8 op_returns = None # URI of the object that is returned by the operation
9 op_returns_header = ["Content-Type", "Content-Length"]
10 op_expects_header = []
11 # List of statusCode for the operation
12 op_status = [HydraStatus(code=200, desc="dummyClass updated.")]
13
14 op1 = HydraClassOp(op_name,
15                    op_method,
16                    op_expects,
17                    op_returns,
18                    op_expects_header,
19                    op_returns_header,
20                    op_status)
```

Once the classes and properties have been defined, add them to the class.

```
1 class_.add_supported_prop(dummyProp1)
2 class_.add_supported_op(op1)
```

After defining a class along with its properties and operations, add this class to the APIDocumentation.

```
1 api_doc.add_supported_class(class_)
```

We can also define a collection in the same we defined class. A collection is the set of somehow related resource

```
1 from hydra_python_core.doc_writer import HydraCollection
2 collection2_title = "dummyClass collection"
3 collection2_name = "dummyclasses"
4 collection2_description = "This collection comprises of instances of dummyClass"
5 # A manages block is a way to declare additional, implicit statements about members_
6 # Here we are defining that all the members of this collection is of type class_.
7 collection2_managed_by = {
8     "property": "rdf:type",
9     "object": class_.id_,
10 }
11 collection_2 = HydraCollection(collection_name=collection2_name,
12                                collection_description=collection2_description,
13                                manages=collection2_managed_by, get=True,
14                                post=True, collection_path="DcTest")
```

Now we add this collection to the HydraDoc object.

```
1 # add the collection to the HydraDoc.
2 api_doc.add_supported_collection(collection_2)
```

Other than this, an API Documentation also needs to have the Resource and the Collection classes, so that the server can identify the class members. This can be done automatically using the `add_baseResource` and `add_baseCollection` methods.

```

1 # Other operations
2 api_doc.add_baseResource() # Creates the base Resource Class and adds it to the API_
  ↳ Documentation
3 api_doc.add_baseCollection() # Creates the base Collection Class and adds it to_
  ↳ the API Documentation

```

Finally, create the EntryPoint object for the API Documentation. All Collections are automatically assigned endpoints in the EntryPoint object. Classes that had their endpoint variables set to True are also assigned endpoints in the EntryPoint object. This object is created automatically by the HydraDoc object and can be created using the gen\_EntryPoint method.

```

1 api_doc.gen_EntryPoint() # Generates the EntryPoint object for the Doc using the_
  ↳ Classes and Collections

```

The final API Documentation can be viewed by calling the generate method which returns a Python dictionary containing the entire API Documentation. The generate method can be called for every class defined in the doc\_writer module to generate its own Python dictionary.

```

1 doc = api_doc.generate()

```

The complete script for this API Documentation can be found in `samples/doc_writer_sample.py`, and the generated ApiDocumentation can be found in `samples/doc_writer_sample_output.py`.

## 3.2 Use an existing API Documentation to create a new HydraDoc object

If there is an existing apidoc in JSON-LD, to work with the tools of Hydra Ecosystem it needs to be converted in HydraDoc object. Any existing doc can be converted in HydraDoc by simply calling the `create_doc` method of `doc_maker` module.

Example:

```

1 # Sample to convert the API Doc into doc_writer classes
2
3 from hydra_python_core.doc_maker import create_doc
4
5 # Note: It would be better to use json.loads from the python json library to create
  ↳ 'doc'
6 doc = {
7     "@context": "http://www.w3.org/ns/hydra/context.jsonld",
8     "@id": "http://api.example.com/doc/",
9     "@type": "ApiDocumentation",
10    "title": "The name of the API",
11    "description": "A short description of the API",
12    "entrypoint": "URL of the API's main entry point",
13    "supportedClass": [
14        # ... Classes known to be supported by the Web API ...
15    ],
16    "possibleStatus": [
17        # ... Statuses that should be expected and handled properly ...
18    ]
19 }
20
21 APIDoc = create_doc(doc)

```

### 3.2.1 doc\_writer

API Doc templates generator.

```
class hydra_python_core.doc_writer.Context (address: str, class_: Optional[hydra_python_core.doc_writer.HydraClass]
= None, collection: Optional[hydra_python_core.doc_writer.HydraCollection]
= None, endpoint: Optional[hydra_python_core.doc_writer.HydraEntryPoint]
= None)
```

Class for JSON-LD context.

**add** (key: str, value: Union[Dict[str, str], str]) → None

Add entry to context.

**createContext** (object\_: Dict[str, Any]) → None

Create the context for the given object.

**generate** () → Dict[str, Any]

Get as a python dict.

```
class hydra_python_core.doc_writer.EntryPointClass (class_: hydra_python_core.doc_writer.HydraClass)
```

Class for a Operation Entry to the EntryPoint object.

**generate** () → Dict[str, Any]

Get as Python Dict.

```
class hydra_python_core.doc_writer.EntryPointCollection (collection: hydra_python_core.doc_writer.HydraCollection)
```

Class for a Collection Entry to the EntryPoint object.

**generate** () → Dict[str, Any]

Get as a python dict.

```
class hydra_python_core.doc_writer.EntryPointOp (id_: str, method: str, desc: str, expects: Optional[str], returns: Optional[str], expects_header: List[str] = [], returns_header: List[str] = [], possible_status: List[Union[HydraStatus, HydraError]] = [], type_: Optional[str] = None, label: str = "")
```

supportedOperation for EntryPoint.

**generate** () → Dict[str, Any]

Get as Python Dict.

**get\_type** (method: str) → str

Return @type for op based on method type.

```
class hydra_python_core.doc_writer.HydraClass (title: str, desc: str, path: str = None, endpoint: bool = True, sub_classof: None = None, _id: str = None)
```

Template for a new class.

**add\_supported\_op** (op: Union[EntryPointOp, HydraClassOp]) → None

Add a new supportedOperation.

**Raises:** TypeError: If op is not an instance of *HydraClassOp* or *EntryPointOp*

**add\_supported\_prop** (*prop*: Union[HydraClassProp, EntryPointClass, EntryPointCollection]) → None  
Add a new supportedProperty.

**Raises:**

**TypeError:** If *prop* is not an instance of *HydraClassProp* or *EntryPointClass* or *EntryPointCollection*

**generate** () → Dict[str, Any]  
Get the Hydra class as a python dict.

**class** hydra\_python\_core.doc\_writer.**HydraClassOp** (*title*: str, *method*: str, *expects*: Optional[str], *returns*: Optional[str], *expects\_header*: List[str] = [], *returns\_header*: List[str] = [], *possible\_status*: List[Union[HydraStatus, HydraError]] = [])

Template for a new supportedOperation.

**generate** () → Dict[str, Any]  
Get the Hydra op as a python dict.

**get\_type** (*method*: str) → str  
Return @type for op based on method type.

**class** hydra\_python\_core.doc\_writer.**HydraClassProp** (*prop*: Union[str, HydraLink], *title*: str, *read*: bool, *write*: bool, *required*: bool, *desc*: str = "", *\*\*kwargs*)

Template for a new property.

**generate** () → Dict[str, Any]  
Get the Hydra prop as a python dict.

**class** hydra\_python\_core.doc\_writer.**HydraCollection** (*collection\_name*: str = None, *collection\_path*: str = None, *collection\_description*: str = None, *manages*: Union[Dict[str, Any], List] = None, *get*: bool = True, *post*: bool = True, *put*: bool = True, *delete*: bool = True)

Class for Hydra Collection.

**generate** () → Dict[str, Any]  
Get as a python dict.

**class** hydra\_python\_core.doc\_writer.**HydraCollectionOp** (*id\_*: str, *type\_*: str, *method*: str, *desc*: str, *expects*: Optional[str], *returns*: Optional[str], *expects\_header*: List[str] = [], *returns\_header*: List[str] = [], *possible\_status*: List[Union[HydraStatus, HydraError]] = [])

Operation class for Collection operations.

**generate** () → Dict[str, Any]  
Get as a Python dict.

```

class hydra_python_core.doc_writer.HydraDoc (API: str, title: str, desc: str, endpoint: str,
                                             base_url: str, doc_name: str)
    Class for an API Doc.

    add_baseCollection () → None
        Add Collection class to the API Doc.

    add_baseResource () → None
        Add Resource class to the API Doc.

    add_possible_status (status: Union[HydraStatus, HydraError]) → None
        Add a new possibleStatus.

        Raises: TypeError: If status is not an instance of HydraStatus.

    add_supported_class (class_: hydra_python_core.doc_writer.HydraClass) → None
        Add a new supportedClass.

        Raises: TypeError: If class_ is not an instance of HydraClass

    add_supported_collection (collection_: hydra_python_core.doc_writer.HydraCollection) →
        None
        Add a supported Collection

        Raises: TypeError: If collection_ is not an instance of HydraCollection

    add_to_context (key: str, value: Union[Dict[str, str], str]) → None
        Add entries to the vocabs context.

    gen_EntryPoint () → None
        Generate the EntryPoint for the Hydra Doc.

    generate () → Dict[str, Any]
        Get the Hydra API Doc as a python dict.

class hydra_python_core.doc_writer.HydraEntryPoint (base_url: str, endpoint: str)
    Template for a new endpoint.

    add_Class (class_: hydra_python_core.doc_writer.HydraClass) → None
        Add supportedProperty to the EntryPoint.

        Raises: TypeError: If class_ is not an instance of HydraClass.

    add_Collection (collection: hydra_python_core.doc_writer.HydraCollection) → None
        Add supportedProperty to the EntryPoint.

        Raises: TypeError: If collection is not an instance of HydraCollection.

    generate () → Dict[str, Any]
        Get as a Python dict.

    get () → Dict[str, str]
        Create the EntryPoint object to be returned for the get function.

class hydra_python_core.doc_writer.HydraError (code: int, id_: str = None, title: str = "",
                                                desc: str = "")
    Class for Hydra Error to represent error details.

    generate () → Dict[str, Any]
        Get error response body

```



```

class hydra_python_core.doc_writer.HydraIriTemplate (template: str, iri_mapping:
                                                    List[hydra_python_core.doc_writer.IriTemplateMapping]
                                                    = [], basic_representation: bool
                                                    = True)

    Class for hydra IriTemplates

    generate () → Dict[str, Any]
        Get IriTemplate as a python dict

class hydra_python_core.doc_writer.HydraLink (id_: str, title: str = "", desc: str = "", domain:
                                              str = "", range_: str = "")

    Template for a link property.

    add_supported_op (op: Union[EntryPointOp, HydraClassOp]) → None
        Add a new supportedOperation.

    Raises: TypeError: If op is not an instance of HydraClassOp or EntryPointOp

    generate () → Dict[str, Any]
        Get the Hydra link as a python dict.

class hydra_python_core.doc_writer.HydraStatus (code: int, id_: str = None, title: str = "",
                                              desc: str = "")

    Class for possibleStatus in Hydra Doc.

    generate (status_type: str = 'Status') → Dict[str, Any]
        Get as Python dict.

class hydra_python_core.doc_writer.IriTemplateMapping (variable: str, prop: str, re-
                                                    quired: bool = False)

    Class for hydra IriTemplateMapping

    generate () → Dict[str, Any]
        Get IriTemplateMapping as a python dict

```

### 3.2.2 doc\_maker

Contructor to take a Python dict containing an API Documentation and create a HydraDoc object for it

```

hydra_python_core.doc_maker.check_namespace (id_: str = None) → str
    A helper method to check if the classes and properties are in the same namespace and if not bring them into the
    right namespace :param id_ The id to check :return: correct url

```

```

hydra_python_core.doc_maker.create_class (expanded_class: Dict[str, Any], endpoint: bool)
                                         → hydra_python_core.doc_writer.HydraClass

```

Creates HydraClass from the expanded API document;

#### Parameters

- **apidoc** – object of HydraDoc type
- **expanded\_class** – the expanded class
- **endpoint** – boolean True if class is an endpoint, False if class is not endpoint

**Returns** HydraClass object that can be added to api doc

```

hydra_python_core.doc_maker.create_collection (endpoint_collection:
                                              Dict[str, Any]) → hy-
                                              dra_python_core.doc_writer.HydraCollection

```

Creates the instance of HydraCollection from expanded APIDOC

**Parameters** `endpoint_collection` – creates HydraCollection from expanded API doc

**Returns** instance of HydraCollection

```
hydra_python_core.doc_maker.create_doc(doc: Dict[str, Any], HYDRUS_SERVER_URL:
                                         str = None, API_NAME: str = None) → hy-
                                         dra_python_core.doc_writer.HydraDoc
```

Create the HydraDoc object from the API Documentation.

**Parameters**

- **doc** – dictionary of hydra api doc
- **HYDRUS\_SERVER\_URL** – url of the hydrus server
- **API\_NAME** – name of the api

**Returns** instance of HydraDoc which server and agent can understand

**Raises** **SyntaxError** – If the *doc* doesn't have an entry for `@id`, `@context`, `@type` key.

```
hydra_python_core.doc_maker.create_link(supported_property: Dict[str, Any]) → hy-
                                         dra_python_core.doc_writer.HydraLink
```

Creates the instances of HydraLink

**Parameters** `supported_property` – expanded Property

**Returns** instance of HydraLink

```
hydra_python_core.doc_maker.create_operation(supported_operation:
                                              Dict[str, Any]) → hy-
                                              dra_python_core.doc_writer.HydraClassOp
```

Creates the instance of HydraClassOp

**Parameters** `supported_operation` – The expanded supported operation from the API DOC

**Returns** HydraClassOp

```
hydra_python_core.doc_maker.create_property(supported_property: Dict[str, Any]) →
                                             Union[hydra_python_core.doc_writer.HydraLink,
                                             hydra_python_core.doc_writer.HydraClassProp]
```

Creates the HydraClassProp from the expanded supported property

**Parameters** `supported_property` – supported property dict from the expanded api doc

**Returns** HydraClassProp

```
hydra_python_core.doc_maker.create_status(possible_status: List[Any]) →
                                           List[hydra_python_core.doc_writer.HydraStatus]
```

Creates instance of HydraStatus from expanded API doc

**Parameters** `possible_status` – possible status from the expanded API doc

**Returns** List of instances of HydraStatus

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