

## msaSDK Module

`.db.crud.schema`

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### Classes

#### MSACRUDEnum

Bases: `str`, `Enum`

##### Attributes

`create` class-attribute

```
create = 'create'
```

`delete` class-attribute

```
delete = 'delete'
```

`list` class-attribute

```
list = 'list'
```

`read` class-attribute

```
read = 'read'
```

`update` class-attribute

```
update = 'update'
```

#### MSACRUDListSchema

Bases: `GenericModel`, `Generic[_T]`, `MSACRUDSchema`

## Attributes

filter class-attribute

```
filter: Dict[str, Any] = None
```

items class-attribute

```
items: List[_T]
```

query class-attribute

```
query: Dict[str, Any] = None
```

total class-attribute

```
total: int = None
```

## MSACRUDOut

Bases: GenericModel, Generic[\_T], MSACRUDSchema

### Attributes

data class-attribute

```
data: Optional[_T] = None
```

msg class-attribute

```
msg: str = 'success'
```

status class-attribute

```
status: int = 0
```

## MSACRUDPaginator

### Attributes

orderBy instance-attribute

```
orderBy = orderBy
```

orderDir instance-attribute

```
orderDir = orderDir
```

page instance-attribute

```
page = page if page and page > 0 else 1
```

perPage instance-attribute

```
perPage = perPage if perPage and perPage > 0 else 10
```

perPageMax class-attribute

```
perPageMax: int = None
```

show\_total instance-attribute

```
show_total = show_total
```

## Functions

`__init__`

```
__init__(
    page: Union[int, str] = 1,
    perPage: Union[int, str] = 10,
    show_total: int = 1,
    orderBy: str = None,
    orderDir: str = "asc",
)
```

## MSACRUDSchema

Bases: `BaseModel`

### Classes

## Config

### Attributes

**extra** class-attribute

```
extra = Extra.allow
```

**json\_dumps** class-attribute

```
json_dumps = json.dumps
```

**json\_loads** class-attribute

```
json_loads = json.loads
```

Last update: September 13, 2022

Created: September 13, 2022