

# msaSDK Module

## **.db.crud.utils**

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### Classes

### Functions

#### paginator\_factory

```
paginator_factory(  
    perPage_max: Optional[int] = None,  
) -> Type[MSACRUDPaginator]
```

#### parser\_item\_id

```
parser_item_id(  
    item_id: str = Path(  
        Ellipsis,  
        min_length=1,  
        title="pk",  
        example="1,2,3",  
        description="Primary key or list of primary keys",  
    )  
) -> List[str]
```

#### parser\_str\_set\_list

```
parser_str_set_list(set_str: Union[int, str]) -> List[str]
```

#### schema\_create\_by\_modelfield

```
schema_create_by_modelfield(  
    schema_name: str,  
    modelfields: Iterable[ModelField],  
    *,  
    set_none: bool = False,  
    namespaces: Dict[str, Any] = None,
```

```
        extra: Extra = Extra.ignore,  
        **kwargs  
    ) -> Type[MSABaseModel]
```

## schema\_create\_by\_schema

```
schema_create_by_schema(  
    schema_cls: Type[MSABaseModel],  
    schema_name: str,  
    *,  
    include: Set[str] = None,  
    exclude: Set[str] = None,  
    set_none: bool = False,  
    **kwargs  
) -> Type[MSABaseModel]
```

## validator\_skip\_blank

```
validator_skip_blank(  
    cls,  
    v,  
    config: BaseConfig,  
    field: ModelField,  
    *args,  
    **kwargs  
)
```

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