# msaSDK Module

.db.crud.base

## **Attributes**

```
__version__ (module-attribute)
```

```
__version__ = '0.1.1'
```

# Classes

## **MSABaseCrud**

Bases: MSARouterMixin

Register Router Base Class



Database tables have and can only have one self-adding primary key.

#### **Attributes**

list\_per\_page\_max class-attribute

```
list_per_page_max: int = None
```

Maximum number of data per page to read in batches. Default: None, no limit.

paginator instance-attribute

paginator: Type[MSACRUDPaginator] = MSACRUDPaginator

pk\_name class-attribute

```
pk_name: str = 'id'
    Current model primary key string, default: id.
    Note: Database tables have and can only have one self-adding primary key.
router instance-attribute
  router = router
schema_create class-attribute
  schema_create: Type[BaseModel] = None
    Create data submission protocol, default: self.schema_model
schema_filter class-attribute
  schema_filter: Type[BaseModel] = None
    Batch query data filter submission protocol, default: self.schema_model
schema_list class-attribute
  schema_list: Type[BaseModel] = None
    Batch query data return protocol, default: self.schema_model
schema_model [instance-attribute]
  schema_model = schema_model or self.schema_model
schema_read class-attribute
  schema_read: Type[BaseModel] = None
    Read data return protocol, default: self.schema_model
schema_update class-attribute
  schema_update: Type[BaseModel] = None
```

Update data submission protocol, default: self.schema\_model

#### **Functions**

\_\_init\_\_

```
__init__(
    schema_model: Type[BaseModel], router: APIRouter = None
)
```

error\_data\_handle

```
error_data_handle(request: Request)
```

error\_execute\_sql

```
error_execute_sql(request: Request, error: Exception)
```

has\_create\_permission async

```
has_create_permission(
    request: Request, obj: Optional[BaseModel], **kwargs
) -> bool
```

Check for single create permission.

has\_delete\_permission [async]

```
has_delete_permission(
    request: Request, item_id: Optional[List[str]], **kwargs
) -> bool
```

Check for single delete permission.

has\_list\_permission async

```
has_list_permission(
    request: Request,
    paginator: Optional[MSACRUDPaginator],
    filters: Optional[BaseModel],
    **kwargs
) -> bool
```

Check for bulk query permission.

has\_read\_permission async

```
has_read_permission(
    request: Request, item_id: Optional[List[str]], **kwargs
) -> bool
```

Check for single read permission.

has\_update\_permission (async)

```
has_update_permission(
    request: Request,
    item_id: Optional[List[str]],
    obj: Optional[BaseModel],
    **kwargs
) -> bool
```

Check for single update permission.

register\_crud

```
register_crud(
    schema_list: Type[BaseModel] = None,
    schema_filter: Type[BaseModel] = None,
    schema_create: Type[BaseModel] = None,
    schema_read: Type[BaseModel] = None,
    schema_update: Type[BaseModel] = None,
    list_max_per_page: int = None,
    depends_list: List[Depends] = None,
    depends_read: List[Depends] = None,
    depends_create: List[Depends] = None,
    depends_update: List[Depends] = None,
    depends_delete: List[Depends] = None,
    depends_delete: List[Depends] = None,
```

Register Crud routing.

route\_create property

```
route_create() -> Callable[..., Any]
```

Single/batch creation of routing functions. Support for synchronous/asynchronous functions.

route\_delete property

```
route_delete() -> Callable[..., Any]
```

Single/batch delete routing functions. Support for synchronous/asynchronous functions.

```
route_list property
```

```
route_list() -> Callable[..., Any]
```

Batch read routing functions. Support for synchronous/asynchronous functions.

route\_read property

```
route_read() -> Callable[..., Any]
```

Single/batch read routing functions. Support for synchronous/asynchronous functions.

route\_update property

```
route_update() -> Callable[..., Any]
```

Single/batch update routing functions. Support for synchronous/asynchronous functions.

router\_prefix property

```
router_prefix()
```

schema\_name\_prefix property

schema\_name\_prefix()

### **MSARouterMixin**

Register Router

### **Attributes**

router [instance-attribute]

```
router = self.get_router()
```

router\_permission\_depend class-attribute

```
router_permission_depend: Callable = None
```

router\_prefix class-attribute

```
router_prefix: Optional[str] = None

Functions
__init__
    __init__()

error_no_router_permission

error_no_router_permission(request: Request)

get_router

get_router() -> APIRouter
```

# **Functions**

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