

## msaSDK Module

### **.admin.frontend.types**

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## Attributes

### MSAOptionsNode module-attribute

```
MSAOptionsNode = Union[List[Dict[str, Any]], List[str]]
```

### MSAUIExpression module-attribute

```
MSAUIExpression = str
```

### MSAUISchemaNode module-attribute

```
MSAUISchemaNode = Union[
    MSAUITemplate,
    "MSAUINode",
    List["MSAUINode"],
    Dict[str, Any],
    List[Dict[str, Any]],
]
```

### MSAUITemplate module-attribute

```
MSAUITemplate = Union[str, 'MSAUITp1']
```

### MSA\_UI\_API module-attribute

```
MSA_UI_API = Union[str, MSAUIAPI, dict]
```

## Classes

## MSABaseUIApiOut

Bases: `MSABaseUIModel`

MSA UI Api interface output data model

### Attributes

`data` class-attribute

```
data: dict = None
```

`msg` class-attribute

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

`status` class-attribute

```
status: int = 0
```

## MSABaseUIModel

Bases: `MSABaseModel`

Core Pydantic Base UI Model.

### 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
```

## Functions

### msa\_ui\_dict

```
msa_ui_dict()
```

### msa\_ui\_json

```
msa_ui_json()
```

### update\_from\_dict

```
update_from_dict(kwarg: Dict[str, Any])
```

### update\_from\_kwargs

```
update_from_kwargs(**kwargs)
```

## MSAUIAPI

Bases: `MSABaseUIModel`

Core MSA UI API

### Attributes

adaptor class-attribute

```
adaptor: str = None
```

Receive adaptor, if the interface does not meet the requirements, you can configure an adaptor to handle it as msa\_ui needs. Also supports Function or string function styles

autoRefresh class-attribute

```
autoRefresh: bool = None
```

Configure whether the interface needs to be automatically refreshed.

cache class-attribute

```
cache: int = None
```

Set cache to set the cache time in milliseconds, within the set cache time, the same request will not be repeatedly initiated, but will get the cached request response data.

data class-attribute

```
data: Union[str, dict] = None
```

Data body of the request, supports data mapping

dataType class-attribute

```
dataType: str = None
```

Default is json can be configured as form or form-data.

When the data contains a file, the form-data (multipart/form-data) format is automatically used. The application/x-www-form-urlencoded format when configured as form.

headers class-attribute

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

The requested headers

method class-attribute

```
method: str = None
```

**GET** holds request method (get, post, put, delete)

qsOptions class-attribute

```
qsOptions: Union[str, dict] = None
```

Useful when dataType is form or form-data.

Specific parameters, set by default to: { arrayFormat: 'indices', encodeValuesOnly: true }

replaceData class-attribute

```
replaceData: bool = None
```

Whether the returned data replaces the current data, the default is false, i.e., append, set to true is a complete replacement.

**requestAdaptor** class-attribute

```
requestAdaptor: str = None
```

send adaptor , msa\_ui's API configuration, if you can not configure the request structure you want, then you can configure the requestAdaptor send adaptor

**responseData** class-attribute

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

If the data structure returned by the interface does not meet expectations, you can modify it by configuring responseData, which also supports data mapping. The data available for mapping is the actual data of the interface (the data part returned by the interface), with additional api variables. where api.query is the query parameter sent by the interface, and api.body is the raw data of the content body sent by the interface.

**responseType** class-attribute

```
responseType: str = None
```

Return type, if it is a download it needs to be set to `blob`

**sendOn** class-attribute

```
sendOn: MSAUIExpression = None
```

Configure the request conditions

**trackExpression** class-attribute

```
trackExpression: str = None
```

Configure track variable expression, when autoRefresh is enabled, the default is the url of the api to automatically track variable changes. If you want to monitor variables outside of the url, configure trackExpression.

**url** class-attribute

```
url: MSAUITemplate
```

Current interface Api address

## MSAUIEvent

Bases: `MSABaseUIModel`

MSA UI Event Pydantic Model

### Attributes

actionType `class-attribute`

```
actionType: str = None
```

Action name

args `class-attribute`

```
args: dict = None
```

Action parameter {key:value}, supports data mapping

expression `class-attribute`

```
expression: Union[bool, MSAUIExpression] = None
```

Execution condition, not set means default execution

outputVar `class-attribute`

```
outputVar: str = None
```

Output data variable name

preventDefault `class-attribute`

```
preventDefault: Union[bool, MSAUIExpression] = None
```

False = prevent event default behavior

stopPropagation `class-attribute`

```
stopPropagation: Union[bool, MSAUIExpression] = None
```

False = Stop the execution of subsequent actions

## MSAUINode

Bases: `MSABaseUIModel`

UI Node Component Configuration

### Attributes

hidden `class-attribute`

```
hidden: bool = None
```

Hide this node

hiddenOn `class-attribute`

```
hiddenOn: MSAUIExpression = None
```

Condition for Hiding

id `class-attribute`

```
id: str = None
```

ID of the Node

name `class-attribute`

```
name: str = None
```

Name of the Node

onEvent `class-attribute`

```
onEvent: dict = None
```

On MSAUIEvent Handler

type `class-attribute`

```
type: str = None
```

Component Type

visible class-attribute

```
visible: bool = None
```

Enable Visible/Show

visibleOn class-attribute

```
visibleOn: MSAUIExpression = None
```

Condition for Visibility

## MSAUITpl

Bases: MSAUINode

MSAUITpl component

### Attributes

className class-attribute

```
className: str = None
```

Class name of the outer Dom

tpl class-attribute

```
tpl: str
```

Configuration template

type class-attribute

```
type: str = 'tpl'
```

Specify as MSAUITpl component

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