msaSDK Module

`.admin.frontend.components`

Attributes

BASE_DIR `module-attribute`

```
BASE_DIR = os.path.dirname(os.path.abspath(__file__))
```

Classes

Action

Bases: `MSAUINode`

Attributes

actionType `class-attribute`

```
actionType: str = None
```

active `class-attribute`

```
active: bool = None
```

activeClassName `class-attribute`

```
activeClassName: str = None
```

activeLevel `class-attribute`

```
activeLevel: str = None
```

args `class-attribute`

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

block `class-attribute`

```
block: bool = None
```

close `class-attribute`

```
close: Union[bool, str] = None
```

componentId `class-attribute`

```
componentId: str = None
```

confirmText `class-attribute`

```
confirmText: MSAUITemplate = None
```

disabledTip `class-attribute`

```
disabledTip: str = None
```

icon `class-attribute`

```
icon: str = None
```

iconClassName `class-attribute`

```
iconClassName: str = None
```

label `class-attribute`

```
label: str = None
```

level `class-attribute`

```
level: LevelEnum = None
```

onClick `class-attribute`

```
onClick: str = None
```

reload `class-attribute`

```
reload: str = None
```

required `class-attribute`

```
required: List[str] = None
```

rightIcon `class-attribute`

```
rightIcon: str = None
```

rightIconClassName `class-attribute`

```
rightIconClassName: str = None
```

script `class-attribute`

```
script: str = None
```

size `class-attribute`

```
size: str = None
```

tooltip `class-attribute`

```
tooltip: str = None
```

tooltipPlacement `class-attribute`

```
tooltipPlacement: str = None
```

type `class-attribute`

```
type: str = 'button'
```

ActionType

Classes

Ajax

Bases: `Action`

Attributes

actionType `class-attribute`

```
actionType: str = 'ajax'
```

api `class-attribute`

```
api: MSA_UI_API = None
```

feedback `class-attribute`

```
feedback: Dialog = None
```

messages `class-attribute`

```
messages: dict = None
```

redirect `class-attribute`

```
redirect: MSAUITemplate = None
```

Copy

Bases: `Action`

Attributes

actionType `class-attribute`

```
actionType: str = 'copy'
```

content `class-attribute`

```
content: MSAUITemplate
```

copyFormat `class-attribute`

```
copyFormat: str = None
```

Dialog

Bases: `Action`

Attributes

actionType `class-attribute`

```
actionType: str = 'dialog'
```

dialog `class-attribute`

```
dialog: Union[Dialog, Service, MSAUISchemaNode]
```

nextCondition `class-attribute`

```
nextCondition: bool = None
```

Drawer

Bases: `Action`

Attributes

actionType `class-attribute`

```
actionType: str = 'drawer'
```

drawer `class-attribute`

```
drawer: Union[Drawer, Service, MSAUISchemaNode]
```

Link

Bases: `Action`

Attributes

actionType `class-attribute`

```
actionType: str = 'link'
```

link `class-attribute`

```
link: str
```

Url

Bases: `Action`

Attributes

actionType `class-attribute`

```
actionType: str = 'url'
```

blank `class-attribute`

```
blank: bool = None
```

url `class-attribute`

```
url: str
```

Alert

Bases: `MSAUINode`

提示

Attributes

body `class-attribute`

```
body: MSAUISchemaNode = None
```

className `class-attribute`

```
className: str = None
```

closeButtonClassName `class-attribute`

```
closeButtonClassName: str = None
```

icon `class-attribute`

```
icon: str = None
```

iconClassName `class-attribute`

```
iconClassName: str = None
```

level `class-attribute`

```
level: str = None
```

showCloseButton `class-attribute`

```
showCloseButton: bool = None
```

showIcon `class-attribute`

```
showIcon: bool = None
```

type `class-attribute`

```
type: str = 'alert'
```

AnchorNav

Bases: `MSAUINode`

锚点导航

Attributes

active `class-attribute`

```
active: str = None
```

className `class-attribute`

```
className: str = None
```

direction `class-attribute`

```
direction: str = None
```

linkClassName `class-attribute`

```
linkClassName: str = None
```

links `class-attribute`

```
links: list = None
```

sectionClassName `class-attribute`

```
sectionClassName: str = None
```

type `class-attribute`

```
type: str = 'anchor-nav'
```

Classes

Link

Bases: `MSAUINode`

Attributes

body `class-attribute`

```
body: MSAUISchemaNode = None
```

className `class-attribute`

```
className: str = None
```

href `class-attribute`

```
href: str = None
```

label `class-attribute`

```
label: str = None
```

title `class-attribute`

```
title: str = None
```

App

Bases: `Page`

多页应用

Attributes

__default_template_path__ `class-attribute`

```
__default_template_path__: str = (
    f"{BASE_DIR}/templates/app.html"
)
```

api `class-attribute`

```
api: MSA_UI_API = None
```

asideAfter `class-attribute`

```
asideAfter: str = None
```

asideBefore `class-attribute`

```
asideBefore: str = None
```

brandName `class-attribute`

```
brandName: str = None
```

className `class-attribute`

```
className: str = None
```

footer `class-attribute`

```
footer: str = None
```

header `class-attribute`

```
header: str = None
```

logo `class-attribute`

```
logo: str = '/msastatic/img/msa_logo.png'
```

pages `class-attribute`

```
pages: List[PageSchema] = None
```

type `class-attribute`

```
type: str = 'app'
```

Audio

Bases: `MSAUINode`

音频

Attributes

autoPlay `class-attribute`

```
autoPlay: bool = None
```

className `class-attribute`

```
className: str = None
```

controls `class-attribute`

```
controls: List[str] = None
```

inline `class-attribute`

```
inline: bool = None
```

loop `class-attribute`

```
loop: bool = None
```

rates `class-attribute`

```
rates: List[float] = None
```

src `class-attribute`

```
src: str = None
```

type `class-attribute`

```
type: str = 'audio'
```

Avatar

Bases: `MSAUINode`

头像

Attributes

className `class-attribute`

```
className: str = None
```

fit `class-attribute`

```
fit: str = None
```

icon `class-attribute`

```
icon: str = None
```

shape `class-attribute`

```
shape: str = None
```

size `class-attribute`

```
size: int = None
```

src `class-attribute`

```
src: str = None
```

style `class-attribute`

```
style: dict = None
```

text `class-attribute`

```
text: str = None
```

type `class-attribute`

```
type: str = 'avatar'
```

Badge

Bases: `MSAUINode`

角标

Attributes

animation `class-attribute`

```
animation: bool = None
```

className `class-attribute`

```
className: str = None
```

level `class-attribute`

```
level: str = None
```

mode `class-attribute`

```
mode: str = 'dot'
```

offset `class-attribute`

```
offset: int = None
```

overflowCount `class-attribute`

```
overflowCount: int = None
```

position `class-attribute`

```
position: str = None
```

size `class-attribute`

```
size: int = None
```

style `class-attribute`

```
style: dict = None
```

text `class-attribute`

```
text: Union[str, int] = None
```

visibleOn `class-attribute`

```
visibleOn: MSAUIExpression = None
```

Button

Bases: `FormItem`

按钮

Attributes

actionType `class-attribute`

```
actionType: str = None
```

block `class-attribute`

```
block: bool = None
```

className `class-attribute`

```
className: str = None
```

disabled `class-attribute`

```
disabled: bool = None
```

href `class-attribute`

```
href: str = None
```

level `class-attribute`

```
level: LevelEnum = None
```

loading `class-attribute`

```
loading: bool = None
```

loadingOn `class-attribute`

```
loadingOn: str = None
```

size `class-attribute`

```
size: str = None
```

tooltip `class-attribute`

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

tooltipPlacement `class-attribute`

```
tooltipPlacement: str = None
```

tooltipTrigger `class-attribute`

```
tooltipTrigger: str = None
```

ButtonGroup

Bases: `MSAUINode`

按钮组

Attributes

buttons `class-attribute`

```
buttons: List[Action]
```

className `class-attribute`

```
className: str = None
```

type `class-attribute`

```
type: str = 'button-group'
```

vertical `class-attribute`

```
vertical: bool = None
```

ButtonToolbar

Bases: `MSAUINode`

按钮工具栏

Attributes

buttons `class-attribute`

```
buttons: List[Action]
```

type `class-attribute`

```
type: str = 'button-toolbar'
```

CRUD

Bases: `MSAUINode`

增删改查

Attributes

affixHeader `class-attribute`

```
affixHeader: bool = None
```

alwaysShowPagination `class-attribute`

```
alwaysShowPagination: bool = None
```

api `class-attribute`

```
api: MSA_UI_API = None
```

autoGenerateFilter `class-attribute`

```
autoGenerateFilter: bool = None
```

autoJumpToTopOnPagerChange `class-attribute`

```
autoJumpToTopOnPagerChange: bool = None
```

bulkActions `class-attribute`

```
bulkActions: List[Action] = None
```

className `class-attribute`

```
className: str = None
```

defaultChecked `class-attribute`

```
defaultChecked: bool = None
```

defaultParams `class-attribute`

```
defaultParams: dict = None
```

draggable `class-attribute`

```
draggable: bool = None
```

filter `class-attribute`

```
filter: Union[MSAUISchemaNode, Form] = None
```

filterDefaultVisible `class-attribute`

```
filterDefaultVisible: bool = None
```

filterTogglable `class-attribute`

```
filterTogglable: bool = None
```

footerToolbar `class-attribute`

```
footerToolbar: list = None
```

headerToolbar `class-attribute`

```
headerToolbar: list = None
```

hideQuickSaveBtn `class-attribute`

```
hideQuickSaveBtn: bool = None
```

initFetch `class-attribute`

```
initFetch: bool = None
```

interval `class-attribute`

```
interval: int = None
```

itemAction `class-attribute`

```
itemAction: Action = None
```

itemDraggableOn `class-attribute`

```
itemDraggableOn: bool = None
```

keepItemSelectionOnPageChange `class-attribute`

```
keepItemSelectionOnPageChange: bool = None
```

labelTpl `class-attribute`

```
labelTpl: str = None
```

loadDataOnce `class-attribute`

```
loadDataOnce: bool = None
```

loadDataOnceFetchOnFilter `class-attribute`

```
loadDataOnceFetchOnFilter: bool = None
```

messages `class-attribute`

```
messages: Messages = None
```

mode `class-attribute`

```
mode: str = None
```

orderField `class-attribute`

```
orderField: str = None
```

pageField `class-attribute`

```
pageField: str = None
```

perPage `class-attribute`

```
perPage: int = None
```

perPageAvailable `class-attribute`

```
perPageAvailable: List[int] = None
```

perPageField `class-attribute`

```
perPageField: str = None
```

primaryField `class-attribute`

```
primaryField: str = None
```

quickSaveApi `class-attribute`

```
quickSaveApi: MSA_UI_API = None
```

quickSaveItemApi `class-attribute`

```
quickSaveItemApi: MSA_UI_API = None
```

saveOrderApi `class-attribute`

```
saveOrderApi: MSA_UI_API = None
```

silentPolling `class-attribute`

```
silentPolling: bool = None
```

source `class-attribute`

```
source: str = None
```

stopAutoRefreshWhen `class-attribute`

```
stopAutoRefreshWhen: str = None
```

stopAutoRefreshWhenModalIsOpen `class-attribute`

```
stopAutoRefreshWhenModalIsOpen: bool = None
```

syncLocation `class-attribute`

```
syncLocation: bool = None
```

syncResponse2Query `class-attribute`

```
syncResponse2Query: bool = None
```

title `class-attribute`

```
title: str = None
```

type `class-attribute`

```
type: str = 'crud'
```

Classes

Messages

Bases: `MSAUINode`

Attributes

fetchFailed `class-attribute`

```
fetchFailed: str = None
```

quickSaveFailed `class-attribute`

```
quickSaveFailed: str = None
```

quickSaveSuccess `class-attribute`

```
quickSaveSuccess: str = None
```

saveOrderFailed `class-attribute`

```
saveOrderFailed: str = None
```

saveOrderSuccess `class-attribute`

```
saveOrderSuccess: str = None
```

Carousel

Bases: `MSAUINode`

轮播图

Attributes

animation `class-attribute`

```
animation: str = None
```

auto `class-attribute`

```
auto: bool = True
```

className `class-attribute`

```
className: str = None
```

controls `class-attribute`

```
controls: List[str] = None
```

controlsTheme `class-attribute`

```
controlsTheme: str = None
```

duration `class-attribute`

```
duration: str = None
```

height `class-attribute`

```
height: str = None
```

interval `class-attribute`

```
interval: str = None
```

itemSchema `class-attribute`

```
itemSchema: dict = None
```

options `class-attribute`

```
options: List[Item] = None
```

thumbMode `class-attribute`

```
thumbMode: str = None
```

type `class-attribute`

```
type: str = 'carousel'
```

width `class-attribute`

```
width: str = None
```

Classes

Item

Bases: `MSAUINode`

Attributes

description `class-attribute`

```
description: str = None
```

descriptionClassName `class-attribute`

```
descriptionClassName: str = None
```

href `class-attribute`

```
href: str = None
```

html `class-attribute`

```
html: str = None
```

image `class-attribute`

```
image: str = None
```

imageClassName `class-attribute`

```
imageClassName: str = None
```

title `class-attribute`

```
title: str = None
```

titleClassName `class-attribute`

```
titleClassName: str = None
```

Chart

Bases: `MSAUINode`

图表: https://echarts.apache.org/zh/option.html#title

Attributes

api `class-attribute`

```
api: MSA_UI_API = None
```

body `class-attribute`

```
body: MSAUISchemaNode = None
```

className `class-attribute`

```
className: str = None
```

config `class-attribute`

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

height `class-attribute`

```
height: str = None
```

initFetch `class-attribute`

```
initFetch: bool = None
```

interval `class-attribute`

```
interval: int = None
```

replaceChartOption `class-attribute`

```
replaceChartOption: bool = None
```

source `class-attribute`

```
source: dict = None
```

style `class-attribute`

```
style: dict = None
```

trackExpression `class-attribute`

```
trackExpression: str = None
```

type `class-attribute`

```
type: str = 'chart'
```

width `class-attribute`

```
width: str = None
```

ChartRadios

Bases: `Radios`

单选框

Attributes

chartValueField `class-attribute`

```
chartValueField: str = None
```

config `class-attribute`

```
config: dict = None
```

showTooltipOnHighlight `class-attribute`

```
showTooltipOnHighlight: bool = None
```

type `class-attribute`

```
type: str = 'chart-radios'
```

Checkbox

Bases: `FormItem`

勾选框

Attributes

falseValue `class-attribute`

```
falseValue: Any = None
```

option `class-attribute`

```
option: str = None
```

trueValue `class-attribute`

```
trueValue: Any = None
```

type `class-attribute`

```
type: str = 'checkbox'
```

Checkboxes

Bases: `FormItem`

复选框

Attributes

addApi `class-attribute`

```
addApi: MSA_UI_API = None
```

addControls `class-attribute`

```
addControls: List[FormItem] = None
```

checkAll `class-attribute`

```
checkAll: bool = None
```

columnsCount `class-attribute`

```
columnsCount: int = None
```

creatable `class-attribute`

```
creatable: bool = None
```

createBtnLabel `class-attribute`

```
createBtnLabel: str = None
```

defaultCheckAll `class-attribute`

```
defaultCheckAll: bool = None
```

deleteApi `class-attribute`

```
deleteApi: MSA_UI_API = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

editApi `class-attribute`

```
editApi: MSA_UI_API = None
```

editControls `class-attribute`

```
editControls: List[FormItem] = None
```

editable `class-attribute`

```
editable: bool = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

inline `class-attribute`

```
inline: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

labelField `class-attribute`

```
labelField: str = None
```

options `class-attribute`

```
options: MSAOptionsNode = None
```

removable `class-attribute`

```
removable: bool = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'checkboxes'
```

valueField `class-attribute`

```
valueField: str = None
```

Code

Bases: `MSAUINode`

代码高亮

Attributes

className `class-attribute`

```
className: str = None
```

editorTheme `class-attribute`

```
editorTheme: str = None
```

language `class-attribute`

```
language: str = None
```

name `class-attribute`

```
name: str = None
```

tabSize `class-attribute`

```
tabSize: int = None
```

type `class-attribute`

```
type: str = 'code'
```

value `class-attribute`

```
value: str = None
```

wordWrap `class-attribute`

```
wordWrap: str = None
```

ColumnImage

Bases: `Image`, `TableColumn`

图片列

ColumnImages

Bases: `Images`, `TableColumn`

图片集列

ColumnOperation

Bases: `TableColumn`

操作列

Attributes

buttons `class-attribute`

```
buttons: List[Union[Action, MSAUINode]] = None
```

label `class-attribute`

```
label: MSAUITemplate = None
```

toggled `class-attribute`

```
toggled: bool = None
```

type `class-attribute`

```
type: str = 'operation'
```

Combo

Bases: `FormItem`

组合

Attributes

addButtonClassName `class-attribute`

```
addButtonClassName: str = None
```

addButtonText `class-attribute`

```
addButtonText: str = None
```

addable `class-attribute`

```
addable: bool = False
```

canAccessSuperData `class-attribute`

```
canAccessSuperData: bool = False
```

conditions `class-attribute`

```
conditions: dict = None
```

deleteApi `class-attribute`

```
deleteApi: MSA_UI_API = None
```

deleteConfirmText `class-attribute`

```
deleteConfirmText: str = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

draggable `class-attribute`

```
draggable: bool = False
```

draggableTip `class-attribute`

```
draggableTip: str = None
```

flat `class-attribute`

```
flat: bool = False
```

formClassName `class-attribute`

```
formClassName: str = None
```

items `class-attribute`

```
items: List[FormItem] = None
```

joinValues `class-attribute`

```
joinValues: bool = True
```

maxLength `class-attribute`

```
maxLength: int = None
```

minLength `class-attribute`

```
minLength: int = None
```

multiLine `class-attribute`

```
multiLine: bool = False
```

multiple `class-attribute`

```
multiple: bool = False
```

noBorder `class-attribute`

```
noBorder: bool = False
```

nullable `class-attribute`

```
nullable: bool = False
```

placeholder `class-attribute`

```
placeholder: str = None
```

removable `class-attribute`

```
removable: bool = False
```

scaffold `class-attribute`

```
scaffold: dict = {}
```

strictMode `class-attribute`

```
strictMode: bool = True
```

subFormMode `class-attribute`

```
subFormMode: str = None
```

syncFields `class-attribute`

```
syncFields: List[str] = []
```

type `class-attribute`

```
type: str = 'combo'
```

typeSwitchable `class-attribute`

```
typeSwitchable: bool = False
```

ConditionBuilder

Bases: `FormItem`

组合条件

Attributes

className `class-attribute`

```
className: str = None
```

fieldClassName `class-attribute`

```
fieldClassName: str = None
```

fields `class-attribute`

```
fields: List[Field] = None
```

source `class-attribute`

```
source: str = None
```

type `class-attribute`

```
type: str = 'condition-builder'
```

Classes

Date

Bases: `Field`

日期

Attributes

defaultValue `class-attribute`

```
defaultValue: str = None
```

format `class-attribute`

```
format: str = None
```

inputFormat `class-attribute`

```
inputFormat: str = None
```

type `class-attribute`

```
type: str = 'date'
```

Datetime

Bases: `Date`

日期时间

Attributes

timeFormat `class-attribute`

```
timeFormat: str = None
```

type `class-attribute`

```
type: str = 'datetime'
```

Field

Bases: `MSAUINode`

Attributes

defaultOp `class-attribute`

```
defaultOp: str = None
```

label `class-attribute`

```
label: str = None
```

operators `class-attribute`

```
operators: List[str] = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

type `class-attribute`

```
type: str = 'text'
```

Number

Bases: `Field`

数字

Attributes

maximum `class-attribute`

```
maximum: float = None
```

minimum `class-attribute`

```
minimum: float = None
```

step `class-attribute`

```
step: float = None
```

type `class-attribute`

```
type: str = 'number'
```

Select

Bases: `Field`

下拉选择

Attributes

autoComplete `class-attribute`

```
autoComplete: MSA_UI_API = None
```

options `class-attribute`

```
options: MSAOptionsNode = None
```

searchable `class-attribute`

```
searchable: bool = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'select'
```

Text

Bases: `Field`

文本

Time

Bases: `Date`

时间

Attributes

type `class-attribute`

```
type: str = 'datetime'
```

Custom

Bases: `MSAUINode`

自定义组件

Attributes

className `class-attribute`

```
className: str = None
```

html `class-attribute`

```
html: str = None
```

id `class-attribute`

```
id: str = None
```

inline `class-attribute`

```
inline: bool = False
```

name `class-attribute`

```
name: str = None
```

onMount `class-attribute`

```
onMount: str = None
```

onUnmount `class-attribute`

```
onUnmount: str = None
```

onUpdate `class-attribute`

```
onUpdate: str = None
```

type `class-attribute`

```
type: str = 'custom'
```

Dialog

Bases: `MSAUINode`

对话框

Attributes

actions `class-attribute`

```
actions: List[Action] = None
```

body `class-attribute`

```
body: MSAUISchemaNode = None
```

bodyClassName `class-attribute`

```
bodyClassName: str = None
```

closeOnEsc `class-attribute`

```
closeOnEsc: bool = None
```

data `class-attribute`

```
data: dict = None
```

disabled `class-attribute`

```
disabled: bool = None
```

showCloseButton `class-attribute`

```
showCloseButton: bool = None
```

showErrorMsg `class-attribute`

```
showErrorMsg: bool = None
```

size `class-attribute`

```
size: Union[str, SizeEnum] = None
```

title `class-attribute`

```
title: MSAUISchemaNode = None
```

type `class-attribute`

```
type: str = 'dialog'
```

Divider

Bases: `MSAUINode`

Attributes

className `class-attribute`

```
className: str = None
```

lineStyle `class-attribute`

```
lineStyle: str = None
```

type `class-attribute`

```
type: str = 'divider'
```

Drawer

Bases: `MSAUINode`

抽屉

Attributes

actions `class-attribute`

```
actions: List[Action] = None
```

body `class-attribute`

```
body: MSAUISchemaNode = None
```

bodyClassName `class-attribute`

```
bodyClassName: str = None
```

closeOnEsc `class-attribute`

```
closeOnEsc: bool = None
```

closeOnOutside `class-attribute`

```
closeOnOutside: bool = None
```

data `class-attribute`

```
data: dict = None
```

overlay `class-attribute`

```
overlay: bool = None
```

position `class-attribute`

```
position: str = None
```

resizable `class-attribute`

```
resizable: bool = None
```

size `class-attribute`

```
size: Union[str, SizeEnum] = None
```

title `class-attribute`

```
title: MSAUISchemaNode = None
```

type `class-attribute`

```
type: str = 'drawer'
```

Editor

Bases: `FormItem`

代码编辑器

Attributes

allowFullscreen `class-attribute`

```
allowFullscreen: bool = None
```

language `class-attribute`

```
language: str = None
```

options `class-attribute`

```
options: dict = None
```

size `class-attribute`

```
size: str = None
```

type `class-attribute`

```
type: str = 'editor'
```

Flex

Bases: `MSAUINode`

Attributes

alignItems `class-attribute`

```
alignItems: str = None
```

className `class-attribute`

```
className: str = None
```

items `class-attribute`

```
items: List[MSAUISchemaNode] = None
```

justify `class-attribute`

```
justify: str = None
```

style `class-attribute`

```
style: dict = None
```

type `class-attribute`

```
type: str = 'flex'
```

Form

Bases: `MSAUINode`

表单

Attributes

actions `class-attribute`

```
actions: List[Action] = None
```

actionsClassName `class-attribute`

```
actionsClassName: str = None
```

api `class-attribute`

```
api: MSA_UI_API = None
```

asyncApi `class-attribute`

```
asyncApi: MSA_UI_API = None
```

autoFocus `class-attribute`

```
autoFocus: bool = None
```

body `class-attribute`

```
body: List[Union[FormItem, MSAUISchemaNode]] = None
```

canAccessSuperData `class-attribute`

```
canAccessSuperData: bool = None
```

checkInterval `class-attribute`

```
checkInterval: int = None
```

className `class-attribute`

```
className: str = None
```

clearPersistDataAfterSubmit `class-attribute`

```
clearPersistDataAfterSubmit: bool = None
```

columnCount `class-attribute`

```
columnCount: int = None
```

debug `class-attribute`

```
debug: bool = None
```

finishedField `class-attribute`

```
finishedField: Optional[str] = None
```

horizontal `class-attribute`

```
horizontal: Horizontal = None
```

initApi `class-attribute`

```
initApi: MSA_UI_API = None
```

initAsyncApi `class-attribute`

```
initAsyncApi: MSA_UI_API = None
```

initCheckInterval `class-attribute`

```
initCheckInterval: int = None
```

initFetch `class-attribute`

```
initFetch: bool = None
```

initFetchOn `class-attribute`

```
initFetchOn: str = None
```

initFinishedField `class-attribute`

```
initFinishedField: Optional[str] = None
```

interval `class-attribute`

```
interval: int = None
```

messages `class-attribute`

```
messages: Messages = None
```

mode `class-attribute`

```
mode: DisplayModeEnum = None
```

name `class-attribute`

```
name: str = None
```

panelClassName `class-attribute`

```
panelClassName: str = None
```

persistData `class-attribute`

```
persistData: str = None
```

preventEnterSubmit `class-attribute`

```
preventEnterSubmit: bool = None
```

primaryField `class-attribute`

```
primaryField: str = None
```

promptPageLeave `class-attribute`

```
promptPageLeave: bool = None
```

redirect `class-attribute`

```
redirect: str = None
```

reload `class-attribute`

```
reload: str = None
```

resetAfterSubmit `class-attribute`

```
resetAfterSubmit: bool = None
```

rules `class-attribute`

```
rules: list = None
```

silentPolling `class-attribute`

```
silentPolling: bool = False
```

stopAutoRefreshWhen `class-attribute`

```
stopAutoRefreshWhen: str = None
```

submitOnChange `class-attribute`

```
submitOnChange: bool = None
```

submitOnInit `class-attribute`

```
submitOnInit: bool = None
```

submitText `class-attribute`

```
submitText: Optional[str] = None
```

target `class-attribute`

```
target: str = None
```

title `class-attribute`

```
title: Optional[str] = None
```

trimValues `class-attribute`

```
trimValues: bool = None
```

type `class-attribute`

```
type: str = 'form'
```

wrapWithPanel `class-attribute`

```
wrapWithPanel: bool = None
```

Classes

Messages

Bases: `MSAUINode`

Attributes

fetchFailed `class-attribute`

```
fetchFailed: str = None
```

fetchSuccess `class-attribute`

```
fetchSuccess: str = None
```

saveFailed `class-attribute`

```
saveFailed: str = None
```

saveSuccess `class-attribute`

```
saveSuccess: str = None
```

FormItem

Bases: `MSAUINode`

表单项通用

Attributes

className `class-attribute`

```
className: str = None
```

copyable `class-attribute`

```
copyable: Union[bool, dict] = None
```

description `class-attribute`

```
description: MSAUITemplate = None
```

disabled `class-attribute`

```
disabled: bool = None
```

disabledOn `class-attribute`

```
disabledOn: MSAUIExpression = None
```

inline `class-attribute`

```
inline: bool = None
```

inputClassName `class-attribute`

```
inputClassName: str = None
```

label `class-attribute`

```
label: MSAUITemplate = None
```

labelClassName `class-attribute`

```
labelClassName: str = None
```

labelRemark class-attribute

```
labelRemark: Remark = None
```

name class-attribute

```
name: str = None
```

placeholder class-attribute

```
placeholder: str = None
```

required class-attribute

```
required: bool = None
```

requiredOn class-attribute

```
requiredOn: MSAUIExpression = None
```

submitOnChange class-attribute

```
submitOnChange: bool = None
```

type class-attribute

```
type: str = 'input-text'
```

validateApi class-attribute

```
validateApi: MSAUIExpression = None
```

validations class-attribute

```
validations: Union[Validation, MSAUIExpression] = None
```

value class-attribute

```
value: Union[int, str] = None
```

visible `class-attribute`

```
visible: MSAUIExpression = None
```

visibleOn `class-attribute`

```
visibleOn: MSAUIExpression = None
```

Grid

Bases: `MSAUINode`

Attributes

align `class-attribute`

```
align: str = None
```

className `class-attribute`

```
className: str = None
```

columns `class-attribute`

```
columns: List[MSAUISchemaNode] = None
```

gap `class-attribute`

```
gap: str = None
```

type `class-attribute`

```
type: str = 'grid'
```

valign `class-attribute`

```
valign: str = None
```

Classes

Column

Bases: `MSAUINode`

Attributes

ClassName `class-attribute`

```
ClassName: str = None
```

body `class-attribute`

```
body: List[MSAUISchemaNode] = None
```

lg `class-attribute`

```
lg: int = None
```

md `class-attribute`

```
md: int = None
```

sm `class-attribute`

```
sm: int = None
```

valign `class-attribute`

```
valign: str = None
```

xs `class-attribute`

```
xs: int = None
```

Group

Bases: `InputGroup`

表单项组

Attributes

direction `class-attribute`

```
direction: str = None
```

gap `class-attribute`

```
gap: str = None
```

mode `class-attribute`

```
mode: DisplayModeEnum = None
```

type `class-attribute`

```
type: str = 'group'
```

Hidden

Bases: `FormItem`

隐藏字段

Attributes

type `class-attribute`

```
type: str = 'hidden'
```

Horizontal

Bases: `MSAUINode`

Attributes

left `class-attribute`

```
left: int = None
```

offset `class-attribute`

```
offset: int = None
```

right `class-attribute`

```
right: int = None
```

Html

Bases: `MSAUINode`

Html Node

Attributes

html `class-attribute`

```
html: str
```

type `class-attribute`

```
type: str = 'html'
```

Icon

Bases: `MSAUINode`

图标

Attributes

className `class-attribute`

```
className: str = None
```

icon `class-attribute`

```
icon: str = None
```

type `class-attribute`

```
type: str = 'icon'
```

Iframe

Bases: `MSAUINode`

Iframe

Attributes

className `class-attribute`

```
className: str = None
```

frameBorder `class-attribute`

```
frameBorder: list = None
```

height `class-attribute`

```
height: Union[int, str] = None
```

src `class-attribute`

```
src: str = None
```

style `class-attribute`

```
style: dict = None
```

type `class-attribute`

```
type: str = 'iframe'
```

width `class-attribute`

```
width: Union[int, str] = None
```

Image

Bases: `MSAUINode`

图片

Attributes

className `class-attribute`

```
className: str = None
```

defaultImage `class-attribute`

```
defaultImage: str = None
```

enlargeAble `class-attribute`

```
enlargeAble: bool = None
```

enlargeCaption `class-attribute`

```
enlargeCaption: str = None
```

enlargeTitle `class-attribute`

```
enlargeTitle: str = None
```

height `class-attribute`

```
height: int = None
```

href `class-attribute`

```
href: MSAUITemplate = None
```

imageCaption `class-attribute`

```
imageCaption: str = None
```

imageClassName `class-attribute`

```
imageClassName: str = None
```

imageMode `class-attribute`

```
imageMode: str = None
```

originalSrc `class-attribute`

```
originalSrc: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

src `class-attribute`

```
src: str = None
```

thumbClassName `class-attribute`

```
thumbClassName: str = None
```

thumbMode `class-attribute`

```
thumbMode: str = None
```

thumbRatio `class-attribute`

```
thumbRatio: str = None
```

title `class-attribute`

```
title: str = None
```

type `class-attribute`

```
type: str = 'image'
```

width `class-attribute`

```
width: int = None
```

Images

Bases: `MSAUINode`

图片集

Attributes

className `class-attribute`

```
className: str = None
```

defaultImage `class-attribute`

```
defaultImage: str = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

enlargeAble `class-attribute`

```
enlargeAble: bool = None
```

originalSrc `class-attribute`

```
originalSrc: str = None
```

source `class-attribute`

```
source: str = None
```

src `class-attribute`

```
src: str = None
```

thumbMode `class-attribute`

```
thumbMode: str = None
```

thumbRatio `class-attribute`

```
thumbRatio: str = None
```

type `class-attribute`

```
type: str = 'images'
```

value `class-attribute`

```
value: Union[str, List[str], List[dict]] = None
```

InputArray

Bases: `FormItem`

数组输入框

Attributes

addButtonText `class-attribute`

```
addButtonText: str = None
```

addable `class-attribute`

```
addable: bool = None
```

draggable `class-attribute`

```
draggable: bool = False
```

draggableTip `class-attribute`

```
draggableTip: str = None
```

items `class-attribute`

```
items: FormItem = None
```

maxLength `class-attribute`

```
maxLength: int = None
```

minLength `class-attribute`

```
minLength: int = None
```

removable `class-attribute`

```
removable: bool = None
```

type `class-attribute`

```
type: str = 'input-array'
```

InputCity

Bases: `FormItem`

城市选择器

Attributes

allowCity `class-attribute`

```
allowCity: bool = None
```

allowDistrict `class-attribute`

```
allowDistrict: bool = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

searchable `class-attribute`

```
searchable: bool = None
```

type `class-attribute`

```
type: str = 'location-city'
```

InputColor

Bases: `FormItem`

颜色选择器

Attributes

allowCustomColor `class-attribute`

```
allowCustomColor: bool = None
```

clearable `class-attribute`

```
clearable: bool = None
```

format `class-attribute`

```
format: str = None
```

presetColors `class-attribute`

```
presetColors: List[str] = None
```

resetValue `class-attribute`

```
resetValue: str = None
```

type `class-attribute`

```
type: str = 'input-color'
```

InputDate

Bases: `FormItem`

日期

Attributes

clearable `class-attribute`

```
clearable: bool = None
```

closeOnSelect `class-attribute`

```
closeOnSelect: bool = None
```

embed `class-attribute`

```
embed: bool = None
```

format `class-attribute`

```
format: str = None
```

inputFormat `class-attribute`

```
inputFormat: str = None
```

largeMode `class-attribute`

```
largeMode: bool = None
```

maxDate `class-attribute`

```
maxDate: str = None
```

minDate `class-attribute`

```
minDate: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

scheduleAction `class-attribute`

```
scheduleAction: MSAUISchemaNode = None
```

scheduleClassNames `class-attribute`

```
scheduleClassNames: List[str] = None
```

schedules `class-attribute`

```
schedules: Union[list, str] = None
```

shortcuts `class-attribute`

```
shortcuts: str = None
```

timeConstraints `class-attribute`

```
timeConstraints: dict = None
```

type `class-attribute`

```
type: str = 'input-date'
```

utc `class-attribute`

```
utc: bool = None
```

value `class-attribute`

```
value: str = None
```

InputDateRange

Bases: `InputDatetimeRange`

日期范围

Attributes

maxDuration `class-attribute`

```
maxDuration: str = None
```

minDuration `class-attribute`

```
minDuration: str = None
```

type `class-attribute`

```
type: str = 'input-date-range'
```

InputDatetime

Bases: `FormItem`

日期

Attributes

clearable `class-attribute`

```
clearable: bool = None
```

embed `class-attribute`

```
embed: bool = None
```

format `class-attribute`

```
format: str = None
```

inputFormat `class-attribute`

```
inputFormat: str = None
```

maxDate `class-attribute`

```
maxDate: str = None
```

minDate `class-attribute`

```
minDate: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

shortcuts `class-attribute`

```
shortcuts: str = None
```

timeConstraints `class-attribute`

```
timeConstraints: dict = None
```

type `class-attribute`

```
type: str = 'input-datetime'
```

utc `class-attribute`

```
utc: bool = None
```

value `class-attribute`

```
value: str = None
```

InputDatetimeRange

Bases: `InputTimeRange`

日期时间范围

Attributes

maxDate `class-attribute`

```
maxDate: str = None
```

minDate `class-attribute`

```
minDate: str = None
```

ranges `class-attribute`

```
ranges: Union[str, List[str]] = None
```

type `class-attribute`

```
type: str = 'input-datetime-range'
```

utc `class-attribute`

```
utc: bool = None
```

InputExcel

Bases: `FormItem`

解析 Excel

Attributes

allSheets `class-attribute`

```
allSheets: bool = None
```

includeEmpty `class-attribute`

```
includeEmpty: bool = None
```

parseMode `class-attribute`

```
parseMode: str = None
```

plainText `class-attribute`

```
plainText: bool = None
```

type `class-attribute`

```
type: str = 'input-excel'
```

InputFile

Bases: `FormItem`

文件上传

Attributes

accept `class-attribute`

```
accept: str = None
```

asBase64 `class-attribute`

```
asBase64: bool = None
```

asBlob `class-attribute`

```
asBlob: bool = None
```

autoFill `class-attribute`

```
autoFill: Dict[str, str] = None
```

autoUpload `class-attribute`

```
autoUpload: bool = None
```

btnLabel `class-attribute`

```
btnLabel: str = None
```

chunkApi `class-attribute`

```
chunkApi: MSA_UI_API = None
```

chunkSize `class-attribute`

```
chunkSize: int = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

downloadUrl `class-attribute`

```
downloadUrl: Union[str, bool] = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

fileField `class-attribute`

```
fileField: str = None
```

finishChunkApi `class-attribute`

```
finishChunkApi: MSA_UI_API = None
```

hideUploadButton `class-attribute`

```
hideUploadButton: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

maxLength `class-attribute`

```
maxLength: int = None
```

maxSize `class-attribute`

```
maxSize: int = None
```

multiple `class-attribute`

```
multiple: bool = None
```

nameField `class-attribute`

```
nameField: str = None
```

receiver `class-attribute`

```
receiver: MSA_UI_API = None
```

startChunkApi `class-attribute`

```
startChunkApi: MSA_UI_API = None
```

stateTextMap `class-attribute`

```
stateTextMap: dict = None
```

type `class-attribute`

```
type: str = 'input-file'
```

urlField `class-attribute`

```
urlField: str = None
```

useChunk `class-attribute`

```
useChunk: bool = None
```

valueField `class-attribute`

```
valueField: str = None
```

InputGroup

Bases: `FormItem`

输入框组合

Attributes

body `class-attribute`

```
body: List[FormItem] = None
```

className `class-attribute`

```
className: str = None
```

type `class-attribute`

```
type: str = 'input-group'
```

InputImage

Bases: `FormItem`

图片上传

Attributes

accept `class-attribute`

```
accept: str = None
```

autoFill `class-attribute`

```
autoFill: Dict[str, str] = None
```

autoUpload `class-attribute`

```
autoUpload: bool = None
```

crop `class-attribute`

```
crop: Union[bool, CropInfo] = None
```

cropFormat `class-attribute`

```
cropFormat: str = None
```

cropQuality `class-attribute`

```
cropQuality: int = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

fileField `class-attribute`

```
fileField: str = None
```

fixedSize `class-attribute`

```
fixedSize: bool = None
```

fixedSizeClassName `class-attribute`

```
fixedSizeClassName: str = None
```

frameImage `class-attribute`

```
frameImage: str = None
```

hideUploadButton `class-attribute`

```
hideUploadButton: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

limit `class-attribute`

```
limit: Limit = None
```

maxLength `class-attribute`

```
maxLength: int = None
```

maxSize `class-attribute`

```
maxSize: int = None
```

multiple `class-attribute`

```
multiple: bool = None
```

receiver `class-attribute`

```
receiver: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'input-image'
```

Classes

CropInfo

Bases: `MSABaseUIModel`

Attributes

aspectRatio `class-attribute`

```
aspectRatio: float = None
```

rotatable `class-attribute`

```
rotatable: bool = None
```

scalable `class-attribute`

```
scalable: bool = None
```

viewMode `class-attribute`

```
viewMode: int = None
```

Limit

Bases: `MSABaseUIModel`

Attributes

aspectRatio `class-attribute`

```
aspectRatio: float = None
```

height `class-attribute`

```
height: int = None
```

maxHeight `class-attribute`

```
maxHeight: int = None
```

maxWidth `class-attribute`

```
maxWidth: int = None
```

minHeight `class-attribute`

```
minHeight: int = None
```

minWidth `class-attribute`

```
minWidth: int = None
```

width `class-attribute`

```
width: int = None
```

InputMonth

Bases: `FormItem`

月份

Attributes

clearable `class-attribute`

```
clearable: bool = None
```

format `class-attribute`

```
format: str = None
```

inputFormat `class-attribute`

```
inputFormat: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

type `class-attribute`

```
type: str = 'input-month'
```

value `class-attribute`

```
value: str = None
```

InputMonthRange

Bases: `InputDateRange`

月份范围

Attributes

type `class-attribute`

```
type: str = 'input-month-range'
```

InputNumber

Bases: `FormItem`

数字输入框

Attributes

kilobitSeparator `class-attribute`

```
kilobitSeparator: bool = None
```

max `class-attribute`

```
max: Union[int, MSAUITemplate] = None
```

min `class-attribute`

```
min: Union[int, MSAUITemplate] = None
```

precision `class-attribute`

```
precision: int = None
```

prefix `class-attribute`

```
prefix: str = None
```

showSteps `class-attribute`

```
showSteps: bool = None
```

step `class-attribute`

```
step: int = None
```

suffix `class-attribute`

```
suffix: str = None
```

type `class-attribute`

```
type: str = 'input-number'
```

InputPassword

Bases: `InputText`

密码输框

Attributes

type `class-attribute`

```
type: str = 'input-password'
```

InputRichText

Bases: `FormItem`

富文本编辑器

Attributes

buttons `class-attribute`

```
buttons: List[str] = None
```

options `class-attribute`

```
options: dict = None
```

receiver `class-attribute`

```
receiver: MSA_UI_API = None
```

saveAsUbb `class-attribute`

```
saveAsUbb: bool = None
```

size `class-attribute`

```
size: str = None
```

type `class-attribute`

```
type: str = 'input-rich-text'
```

vendor `class-attribute`

```
vendor: str = None
```

videoReceiver `class-attribute`

```
videoReceiver: MSA_UI_API = None
```

InputTable

Bases: `FormItem`

表格

Attributes

addApi `class-attribute`

```
addApi: MSA_UI_API = None
```

addBtnIcon `class-attribute`

```
addBtnIcon: str = None
```

addBtnLabel `class-attribute`

```
addBtnLabel: str = None
```

addable `class-attribute`

```
addable: bool = None
```

canAccessSuperData `class-attribute`

```
canAccessSuperData: bool = None
```

cancelBtnIcon `class-attribute`

```
cancelBtnIcon: str = None
```

cancelBtnLabel `class-attribute`

```
cancelBtnLabel: str = None
```

columns `class-attribute`

```
columns: list = None
```

confirmBtnIcon `class-attribute`

```
confirmBtnIcon: str = None
```

confirmBtnLabel `class-attribute`

```
confirmBtnLabel: str = None
```

copyBtnIcon `class-attribute`

```
copyBtnIcon: str = None
```

copyBtnLabel `class-attribute`

```
copyBtnLabel: str = None
```

deleteApi `class-attribute`

```
deleteApi: MSA_UI_API = None
```

deleteBtnIcon `class-attribute`

```
deleteBtnIcon: str = None
```

deleteBtnLabel `class-attribute`

```
deleteBtnLabel: str = None
```

editBtnIcon `class-attribute`

```
editBtnIcon: str = None
```

editBtnLabel `class-attribute`

```
editBtnLabel: str = None
```

editable `class-attribute`

```
editable: bool = None
```

needConfirm `class-attribute`

```
needConfirm: bool = None
```

perPage `class-attribute`

```
perPage: int = None
```

removable `class-attribute`

```
removable: bool = None
```

showAddBtn `class-attribute`

```
showAddBtn: bool = None
```

showIndex `class-attribute`

```
showIndex: bool = None
```

strictMode `class-attribute`

```
strictMode: bool = None
```

type `class-attribute`

```
type: str = 'input-table'
```

updateApi `class-attribute`

```
updateApi: MSA_UI_API = None
```

InputText

Bases: `FormItem`

输入框

Attributes

addOn `class-attribute`

```
addOn: MSAUISchemaNode = None
```

autoComplete `class-attribute`

```
autoComplete: Union[str, MSA_UI_API] = None
```

clearable `class-attribute`

```
clearable: bool = None
```

creatable `class-attribute`

```
creatable: bool = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

labelField `class-attribute`

```
labelField: str = None
```

maxLength `class-attribute`

```
maxLength: int = None
```

minLength `class-attribute`

```
minLength: int = None
```

multiple `class-attribute`

```
multiple: bool = None
```

options `class-attribute`

```
options: Union[List[str], List[dict]] = None
```

prefix `class-attribute`

```
prefix: str = None
```

resetValue `class-attribute`

```
resetValue: str = None
```

showCounter `class-attribute`

```
showCounter: bool = None
```

source `class-attribute`

```
source: Union[str, MSA_UI_API] = None
```

suffix `class-attribute`

```
suffix: str = None
```

trimContents `class-attribute`

```
trimContents: bool = None
```

type `class-attribute`

```
type: str = 'input-text'
```

valueField `class-attribute`

```
valueField: str = None
```

InputTime

Bases: `FormItem`

时间

Attributes

clearable `class-attribute`

```
clearable: bool = None
```

format `class-attribute`

```
format: str = None
```

inputFormat `class-attribute`

```
inputFormat: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

timeConstraints `class-attribute`

```
timeConstraints: dict = None
```

timeFormat `class-attribute`

```
timeFormat: str = None
```

type `class-attribute`

```
type: str = 'input-time'
```

value `class-attribute`

```
value: str = None
```

InputTimeRange

Bases: `FormItem`

时间范围

Attributes

clearable `class-attribute`

```
clearable: bool = None
```

embed `class-attribute`

```
embed: bool = None
```

format `class-attribute`

```
format: str = None
```

inputFormat `class-attribute`

```
inputFormat: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

timeFormat `class-attribute`

```
timeFormat: str = None
```

type `class-attribute`

```
type: str = 'input-time-range'
```

InputTree

Bases: `FormItem`

树形选择框

Attributes

addApi `class-attribute`

```
addApi: MSA_UI_API = None
```

addControls `class-attribute`

```
addControls: List[FormItem] = None
```

autoComplete `class-attribute`

```
autoComplete: MSA_UI_API = None
```

cascade `class-attribute`

```
cascade: bool = None
```

creatable `class-attribute`

```
creatable: bool = None
```

deferApi `class-attribute`

```
deferApi: MSA_UI_API = None
```

deleteApi `class-attribute`

```
deleteApi: MSA_UI_API = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

editApi `class-attribute`

```
editApi: MSA_UI_API = None
```

editControls `class-attribute`

```
editControls: List[FormItem] = None
```

editable `class-attribute`

```
editable: bool = None
```

enableNodePath `class-attribute`

```
enableNodePath: bool = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

hideRoot `class-attribute`

```
hideRoot: bool = None
```

iconField `class-attribute`

```
iconField: str = None
```

initiallyOpen `class-attribute`

```
initiallyOpen: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

labelField `class-attribute`

```
labelField: str = None
```

maxLength `class-attribute`

```
maxLength: int = None
```

minLength `class-attribute`

```
minLength: int = None
```

multiple `class-attribute`

```
multiple: bool = None
```

onlyChildren `class-attribute`

```
onlyChildren: bool = None
```

options `class-attribute`

```
options: MSAOptionsNode = None
```

pathSeparator `class-attribute`

```
pathSeparator: str = None
```

removable `class-attribute`

```
removable: bool = None
```

rootCreatable `class-attribute`

```
rootCreatable: bool = None
```

rootCreateTip `class-attribute`

```
rootCreateTip: str = None
```

rootLabel `class-attribute`

```
rootLabel: bool = None
```

searchable `class-attribute`

```
searchable: bool = None
```

selectFirst `class-attribute`

```
selectFirst: bool = None
```

showIcon `class-attribute`

```
showIcon: bool = None
```

showRadio `class-attribute`

```
showRadio: bool = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

treeContainerClassName `class-attribute`

```
treeContainerClassName: str = None
```

type `class-attribute`

```
type: str = 'input-tree'
```

unfoldedLevel `class-attribute`

```
unfoldedLevel: int = None
```

valueField `class-attribute`

```
valueField: str = None
```

withChildren `class-attribute`

```
withChildren: bool = None
```

Json

Bases: `MSAUINode`

JSON 展示组件

Attributes

className `class-attribute`

```
className: str = None
```

displayDataTypes `class-attribute`

```
displayDataTypes: bool = None
```

jsonTheme `class-attribute`

```
jsonTheme: str = None
```

levelExpand `class-attribute`

```
levelExpand: int = None
```

mutable `class-attribute`

```
mutable: bool = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

source `class-attribute`

```
source: str = None
```

type `class-attribute`

```
type: str = 'json'
```

value `class-attribute`

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

Link

Bases: `MSAUINode`

链接

Attributes

blank `class-attribute`

```
blank: bool = None
```

body `class-attribute`

```
body: str = None
```

disabled `class-attribute`

```
disabled: bool = None
```

href `class-attribute`

```
href: str = None
```

htmlTarget `class-attribute`

```
htmlTarget: str = None
```

icon `class-attribute`

```
icon: str = None
```

rightIcon `class-attribute`

```
rightIcon: str = None
```

title `class-attribute`

```
title: str = None
```

type `class-attribute`

```
type: str = 'link'
```

LocationPicker

Bases: `FormItem`

地理位置

Attributes

ak `class-attribute`

```
ak: str = Ellipsis
```

clearable `class-attribute`

```
clearable: bool = None
```

coordinatesType `class-attribute`

```
coordinatesType: str = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

type `class-attribute`

```
type: str = 'location-picker'
```

vendor `class-attribute`

```
vendor: str = 'baidu'
```

Log

Bases: `MSAUINode`

实时日志

Attributes

autoScroll `class-attribute`

```
autoScroll: bool = None
```

className `class-attribute`

```
className: str = None
```

encoding `class-attribute`

```
encoding: str = None
```

height `class-attribute`

```
height: int = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'log'
```

Mapping

Bases: `MSAUINode`

映射

Attributes

className `class-attribute`

```
className: str = None
```

map `class-attribute`

```
map: dict = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'mapping'
```

Markdown

Bases: `MSAUINode`

Markdown渲染

Attributes

className `class-attribute`

```
className: str = None
```

name `class-attribute`

```
name: str = None
```

options `class-attribute`

```
options: dict = None
```

src `class-attribute`

```
src: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'markdown'
```

value `class-attribute`

```
value: Union[int, str] = None
```

Nav

Bases: `MSAUINode`

导航

Attributes

className `class-attribute`

```
className: str = None
```

deferApi `class-attribute`

```
deferApi: MSA_UI_API = None
```

dragOnSameLevel `class-attribute`

```
dragOnSameLevel: bool = None
```

draggable `class-attribute`

```
draggable: bool = None
```

itemActions `class-attribute`

```
itemActions: MSAUISchemaNode = None
```

itemBadge `class-attribute`

```
itemBadge: Badge = None
```

links `class-attribute`

```
links: list = None
```

saveOrderApi `class-attribute`

```
saveOrderApi: MSA_UI_API = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

stacked `class-attribute`

```
stacked: bool = True
```

type `class-attribute`

```
type: str = 'nav'
```

Classes

Link

Bases: `MSAUINode`

Attributes

active `class-attribute`

```
active: bool = None
```

activeOn `class-attribute`

```
activeOn: MSAUIExpression = None
```

children `class-attribute`

```
children: List[Link] = None
```

defer `class-attribute`

```
defer: bool = None
```

deferApi `class-attribute`

```
deferApi: MSA_UI_API = None
```

icon `class-attribute`

```
icon: str = None
```

label `class-attribute`

```
label: str = None
```

target `class-attribute`

```
target: str = None
```

to `class-attribute`

```
to: MSAUITemplate = None
```

unfolded `class-attribute`

```
unfolded: bool = None
```

NestedSelect

Bases: `Select`

级联选择器

Attributes

cascade `class-attribute`

```
cascade: bool = None
```

hideNodePathLabel `class-attribute`

```
hideNodePathLabel: bool = None
```

noResultsText `class-attribute`

```
noResultsText: str = None
```

onlyChildren `class-attribute`

```
onlyChildren: bool = None
```

onlyLeaf `class-attribute`

```
onlyLeaf: bool = None
```

searchPromptText `class-attribute`

```
searchPromptText: str = None
```

type `class-attribute`

```
type: str = 'nested-select'
```

withChildren `class-attribute`

```
withChildren: bool = None
```

Page

Bases: `MSAUINode`

页面

Attributes

__default_template_path__ `class-attribute`

```
__default_template_path__: str = (
    f"{BASE_DIR}/templates/page.html"
)
```

aside `class-attribute`

```
aside: MSAUISchemaNode = None
```

asideClassName `class-attribute`

```
asideClassName: str = None
```

asideMaxWidth `class-attribute`

```
asideMaxWidth: int = None
```

asideMinWidth `class-attribute`

```
asideMinWidth: int = None
```

asideResizor `class-attribute`

```
asideResizor: bool = None
```

body `class-attribute`

```
body: MSAUISchemaNode = None
```

bodyClassName `class-attribute`

```
bodyClassName: str = None
```

className `class-attribute`

```
className: str = None
```

cssVars `class-attribute`

```
cssVars: dict = None
```

headerClassName `class-attribute`

```
headerClassName: str = None
```

initApi `class-attribute`

```
initApi: MSA_UI_API = None
```

initFetch `class-attribute`

```
initFetch: bool = None
```

initFetchOn `class-attribute`

```
initFetchOn: MSAUIExpression = None
```

interval `class-attribute`

```
interval: int = None
```

regions `class-attribute`

```
regions: List[str] = None
```

remark `class-attribute`

```
remark: Remark = None
```

silentPolling `class-attribute`

```
silentPolling: bool = None
```

stopAutoRefreshWhen `class-attribute`

```
stopAutoRefreshWhen: MSAUIExpression = None
```

subTitle `class-attribute`

```
subTitle: MSAUISchemaNode = None
```

title `class-attribute`

```
title: MSAUISchemaNode = None
```

toolbar `class-attribute`

```
toolbar: MSAUISchemaNode = None
```

toolbarClassName `class-attribute`

```
toolbarClassName: str = None
```

type `class-attribute`

```
type: str = 'page'
```

Functions

msa_ui_html

```
msa_ui_html(
    template_path: str = "",
    locale: str = "zh_CN",
    site_title: str = "Admin",
    site_icon: str = "",
)
```

PageSchema

Bases: `MSAUINode`

Attributes

children `class-attribute`

```
children: List[PageSchema] = None
```

className `class-attribute`

```
className: str = None
```

icon `class-attribute`

```
icon: str = 'fa fa-flash'
```

isDefaultPage `class-attribute`

```
isDefaultPage: Union[str, bool] = None
```

label `class-attribute`

```
label: str = None
```

link `class-attribute`

```
link: str = None
```

redirect `class-attribute`

```
redirect: str = None
```

rewrite `class-attribute`

```
rewrite: str = None
```

schemaApi `class-attribute`

```
schemaApi: MSA_UI_API = None
```

schema_ `class-attribute`

```
schema_: Union[Page, Iframe] = Field(None, alias='schema')
```

sort `class-attribute`

```
sort: int = None
```

url `class-attribute`

```
url: str = None
```

visible `class-attribute`

```
visible: str = None
```

Functions

as_tabs_item

```
as_tabs_item(
    tabs_extra: Dict[str, Any] = None,
    item_extra: Dict[str, Any] = None,
)
```

Panel

Bases: `MSAUINode`

Attributes

actions `class-attribute`

```
actions: List[Action] = None
```

actionsClassName `class-attribute`

```
actionsClassName: str = None
```

affixFooter `class-attribute`

```
affixFooter: bool = None
```

body `class-attribute`

```
body: MSAUISchemaNode = None
```

bodyClassName `class-attribute`

```
bodyClassName: str = None
```

className `class-attribute`

```
className: str = None
```

footer `class-attribute`

```
footer: MSAUISchemaNode = None
```

footerClassName `class-attribute`

```
footerClassName: str = None
```

header `class-attribute`

```
header: MSAUISchemaNode = None
```

headerClassName `class-attribute`

```
headerClassName: str = None
```

title `class-attribute`

```
title: MSAUISchemaNode = None
```

type `class-attribute`

```
type: str = 'panel'
```

Picker

Bases: `FormItem`

列表选择器

Attributes

autoFill `class-attribute`

```
autoFill: dict = None
```

delimiter `class-attribute`

```
delimiter: bool = None
```

embed `class-attribute`

```
embed: bool = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

labelField `class-attribute`

```
labelField: str = None
```

modalMode `class-attribute`

```
modalMode: Literal[dialog, drawer] = None
```

multiple `class-attribute`

```
multiple: bool = None
```

options `class-attribute`

```
options: MSAOptionsNode = None
```

pickerSchema `class-attribute`

```
pickerSchema: Union[CRUD, MSAUISchemaNode] = None
```

size `class-attribute`

```
size: Union[str, SizeEnum] = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'picker'
```

valueField `class-attribute`

```
valueField: str = None
```

Portlet

Bases: `Tabs`

Attributes

contentClassName `class-attribute`

```
contentClassName: str = None
```

description `class-attribute`

```
description: MSAUITemplate = None
```

divider `class-attribute`

```
divider: bool = None
```

hideHeader `class-attribute`

```
hideHeader: bool = None
```

style `class-attribute`

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

tabs `class-attribute`

```
tabs: List[Item] = None
```

type `class-attribute`

```
type: str = 'portlet'
```

Classes

Item

Bases: `Tabs.Item`

Attributes

toolbar `class-attribute`

```
toolbar: MSAUISchemaNode = None
```

Property

Bases: `MSAUINode`

属性表

Attributes

className `class-attribute`

```
className: str = None
```

column `class-attribute`

```
column: int = None
```

contentStyle `class-attribute`

```
contentStyle: dict = None
```

items `class-attribute`

```
items: List[Item] = None
```

labelStyle `class-attribute`

```
labelStyle: dict = None
```

mode `class-attribute`

```
mode: str = None
```

separator `class-attribute`

```
separator: str = None
```

source `class-attribute`

```
source: MSAUITemplate = None
```

style `class-attribute`

```
style: dict = None
```

title `class-attribute`

```
title: str = None
```

type `class-attribute`

```
type: str = 'property'
```

Classes

Item

Bases: `MSAUINode`

Attributes

content `class-attribute`

```
content: MSAUITemplate = None
```

hiddenOn `class-attribute`

```
hiddenOn: MSAUIExpression = None
```

label `class-attribute`

```
    label: MSAUITemplate = None
```

span `class-attribute`

```
    span: int = None
```

visibleOn `class-attribute`

```
    visibleOn: MSAUIExpression = None
```

QRCode

Bases: `MSAUINode`

二维码

Attributes

backgroundColor `class-attribute`

```
    backgroundColor: str = None
```

className `class-attribute`

```
    className: str = None
```

codeSize `class-attribute`

```
    codeSize: int = None
```

foregroundColor `class-attribute`

```
    foregroundColor: str = None
```

level `class-attribute`

```
    level: str = None
```

qrcodeClassName `class-attribute`

```
    qrcodeClassName: str = None
```

type `class-attribute`

```
type: str = 'qr-code'
```

value `class-attribute`

```
value: MSAUITemplate
```

Radios

Bases: `FormItem`

单选框

Attributes

autoFill `class-attribute`

```
autoFill: dict = None
```

columnsCount `class-attribute`

```
columnsCount: int = None
```

inline `class-attribute`

```
inline: bool = None
```

labelField `class-attribute`

```
labelField: bool = None
```

options `class-attribute`

```
options: List[Union[dict, str]] = None
```

selectFirst `class-attribute`

```
selectFirst: bool = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'radios'
```

valueField `class-attribute`

```
valueField: bool = None
```

Remark

Bases: `MSAUINode`

标记

Attributes

className `class-attribute`

```
className: str = None
```

content `class-attribute`

```
content: str = None
```

icon `class-attribute`

```
icon: str = None
```

placement `class-attribute`

```
placement: str = None
```

trigger `class-attribute`

```
trigger: str = None
```

type `class-attribute`

```
type: str = 'remark'
```

Select

Bases: `FormItem`

下拉框

Attributes

addApi `class-attribute`

```
addApi: MSA_UI_API = None
```

addControls `class-attribute`

```
addControls: List[FormItem] = None
```

autoComplete `class-attribute`

```
autoComplete: MSA_UI_API = None
```

autoFill `class-attribute`

```
autoFill: dict = None
```

checkAll `class-attribute`

```
checkAll: bool = None
```

checkAllBySearch `class-attribute`

```
checkAllBySearch: bool = None
```

checkAllLabel `class-attribute`

```
checkAllLabel: str = None
```

clearable `class-attribute`

```
clearable: bool = None
```

columns `class-attribute`

```
columns: List[dict] = None
```

creatable `class-attribute`

```
creatable: bool = None
```

createBtnLabel `class-attribute`

```
createBtnLabel: str = None
```

defaultCheckAll `class-attribute`

```
defaultCheckAll: bool = None
```

deleteApi `class-attribute`

```
deleteApi: MSA_UI_API = None
```

delimiter `class-attribute`

```
delimiter: Union[bool, str] = None
```

editApi `class-attribute`

```
editApi: MSA_UI_API = None
```

editControls `class-attribute`

```
editControls: List[FormItem] = None
```

editable `class-attribute`

```
editable: bool = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

hideSelected `class-attribute`

```
hideSelected: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

labelField `class-attribute`

```
labelField: str = None
```

leftMode `class-attribute`

```
leftMode: str = None
```

leftOptions `class-attribute`

```
leftOptions: List[dict] = None
```

menuTpl `class-attribute`

```
menuTpl: str = None
```

mobileClassName `class-attribute`

```
mobileClassName: str = None
```

multiple `class-attribute`

```
multiple: bool = None
```

options `class-attribute`

```
options: MSAOptionsNode = None
```

removable `class-attribute`

```
removable: bool = None
```

rightMode `class-attribute`

```
rightMode: str = None
```

searchResultMode `class-attribute`

```
searchResultMode: str = None
```

searchable `class-attribute`

```
searchable: bool = None
```

selectMode `class-attribute`

```
selectMode: str = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

type `class-attribute`

```
type: str = 'select'
```

valueField `class-attribute`

```
valueField: str = None
```

Service

Bases: `MSAUINode`

功能型容器

Attributes

api `class-attribute`

```
api: MSA_UI_API = None
```

body `class-attribute`

```
body: MSAUISchemaNode = None
```

className `class-attribute`

```
className: str = None
```

data `class-attribute`

```
data: dict = None
```

dataProvider `class-attribute`

```
dataProvider: str = None
```

initFetch `class-attribute`

```
initFetch: bool = None
```

initFetchSchema `class-attribute`

```
initFetchSchema: bool = None
```

interval `class-attribute`

```
interval: int = None
```

messages `class-attribute`

```
messages: dict = None
```

name `class-attribute`

```
name: str = None
```

schemaApi `class-attribute`

```
schemaApi: MSA_UI_API = None
```

silentPolling `class-attribute`

```
silentPolling: bool = None
```

stopAutoRefreshWhen `class-attribute`

```
stopAutoRefreshWhen: MSAUIExpression = None
```

type `class-attribute`

```
type: str = 'service'
```

WS `class-attribute`

```
ws: str = None
```

Spinner

Bases: `MSAUINode`

加载中

Attributes

type `class-attribute`

```
type: str = 'spinner'
```

Static

Bases: `FormItem`

静态展示/标签

Attributes

type `class-attribute`

```
type: str = 'static'
```

Classes

Datetime

Bases: `FormItem`

显示日期

Attributes

type `class-attribute`

```
type: str = 'static-datetime'
```

value `class-attribute`

```
value: Union[int, str]
```

Json

Bases: `FormItem`

Attributes

type `class-attribute`

```
type: str = 'static-json'
```

value `class-attribute`

```
value: Union[dict, str]
```

Status

Bases: `MSAUINode`

状态

Attributes

className `class-attribute`

```
className: str = None
```

labelMap `class-attribute`

```
labelMap: dict = None
```

map `class-attribute`

```
map: dict = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

type `class-attribute`

```
type: str = 'status'
```

Switch

Bases: `FormItem`

开关

Attributes

falseValue `class-attribute`

```
falseValue: Any = None
```

offText `class-attribute`

```
offText: str = None
```

onText `class-attribute`

```
onText: str = None
```

option `class-attribute`

```
option: str = None
```

trueValue `class-attribute`

```
trueValue: Any = None
```

type `class-attribute`

```
type: str = 'switch'
```

Table

Bases: `MSAUINode`

表格

Attributes

affixHeader `class-attribute`

```
affixHeader: bool = None
```

affixRow `class-attribute`

```
affixRow: list = None
```

autoFillHeight `class-attribute`

```
autoFillHeight: bool = None
```

checkOnItemClick `class-attribute`

```
checkOnItemClick: bool = None
```

className `class-attribute`

```
className: str = None
```

columns `class-attribute`

```
columns: List[Union[TableColumn, MSAUISchemaNode]] = None
```

columnsTogglable `class-attribute`

```
columnsTogglable: Union[str, bool] = None
```

combineNum `class-attribute`

```
combineNum: int = None
```

footable `class-attribute`

```
footable: Union[bool, dict] = None
```

footerClassName `class-attribute`

```
footerClassName: str = None
```

headerClassName `class-attribute`

```
headerClassName: str = None
```

itemActions `class-attribute`

```
itemActions: List[Action] = None
```

itemBadge `class-attribute`

```
itemBadge: Badge = None
```

itemCheckableOn `class-attribute`

```
itemCheckableOn: MSAUIExpression = None
```

itemDraggableOn `class-attribute`

```
itemDraggableOn: MSAUIExpression = None
```

placeholder `class-attribute`

```
placeholder: str = None
```

prefixRow `class-attribute`

```
prefixRow: list = None
```

rowClassName `class-attribute`

```
rowClassName: str = None
```

rowClassNameExpr `class-attribute`

```
rowClassNameExpr: MSAUITemplate = None
```

source `class-attribute`

```
source: str = None
```

tableClassName `class-attribute`

```
tableClassName: str = None
```

title `class-attribute`

```
title: str = None
```

toolbarClassName `class-attribute`

```
toolbarClassName: str = None
```

type `class-attribute`

```
type: str = 'table'
```

TableCRUD

Bases: `CRUD` , `Table`

表格CRUD

TableColumn

Bases: `MSAUINode`

列配置

Attributes

breakpoint `class-attribute`

```
breakpoint: str = None
```

copyable `class-attribute`

```
copyable: Union[bool, dict] = None
```

fixed `class-attribute`

```
fixed: str = None
```

label `class-attribute`

```
label: MSAUITemplate = None
```

name `class-attribute`

```
name: str = None
```

popOver `class-attribute`

```
popOver: Union[bool, dict] = None
```

quickEdit `class-attribute`

```
quickEdit: Union[bool, dict] = None
```

remark `class-attribute`

```
remark: Remark = None
```

searchable `class-attribute`

```
searchable: Union[bool, MSAUISchemaNode] = None
```

sortable `class-attribute`

```
sortable: bool = None
```

tpl `class-attribute`

```
tpl: MSAUITemplate = None
```

type `class-attribute`

```
type: str = None
```

width `class-attribute`

```
width: Union[str, int] = None
```

Tabs

Bases: `MSAUINode`

Attributes

addBtnText `class-attribute`

```
addBtnText: str = None
```

addable `class-attribute`

```
addable: bool = None
```

className `class-attribute`

```
className: str = None
```

closable `class-attribute`

```
closable: bool = None
```

draggable `class-attribute`

```
draggable: bool = None
```

editable `class-attribute`

```
editable: bool = None
```

mode `class-attribute`

```
mode: str = None
```

mountOnEnter `class-attribute`

```
mountOnEnter: bool = None
```

scrollable `class-attribute`

```
scrollable: bool = None
```

showTip `class-attribute`

```
showTip: bool = None
```

showTipClassName `class-attribute`

```
showTipClassName: str = None
```

sidePosition `class-attribute`

```
sidePosition: str = None
```

source `class-attribute`

```
source: str = None
```

tabs `class-attribute`

```
tabs: List[Item] = None
```

tabsClassName `class-attribute`

```
tabsClassName: str = None
```

tabsMode `class-attribute`

```
tabsMode: TabsModeEnum = None
```

toolbar `class-attribute`

```
toolbar: MSAUISchemaNode = None
```

toolbarClassName `class-attribute`

```
toolbarClassName: str = None
```

type `class-attribute`

```
type: str = 'tabs'
```

unmountOnExit `class-attribute`

```
unmountOnExit: bool = None
```

Classes

Item

Bases: `MSAUINode`

Attributes

className `class-attribute`

```
className: str = None
```

closable `class-attribute`

```
closable: bool = None
```

disabled `class-attribute`

```
disabled: bool = None
```

hash `class-attribute`

```
hash: str = None
```

icon `class-attribute`

```
icon: Union[str, Icon] = None
```

iconPosition `class-attribute`

```
iconPosition: str = None
```

reload `class-attribute`

```
reload: bool = None
```

tab `class-attribute`

```
tab: MSAUISchemaNode = None
```

title `class-attribute`

```
title: str = None
```

unmountOnExit `class-attribute`

```
unmountOnExit: bool = None
```

TabsTransfer

Bases: `Transfer`

组合穿梭器

Attributes

type `class-attribute`

```
type: str = 'tabs-transfer'
```

TabsTransferPicker

Bases: `Transfer`

组合穿梭选择器

Attributes

type `class-attribute`

```
type: str = 'tabs-transfer-picker'
```

Tasks

Bases: `MSAUINode`

任务操作集合

Attributes

btnClassName `class-attribute`

```
btnClassName: str = None
```

btnText `class-attribute`

```
btnText: str = None
```

checkApi `class-attribute`

```
checkApi: MSA_UI_API = None
```

className `class-attribute`

```
className: str = None
```

interval `class-attribute`

```
interval: int = None
```

items `class-attribute`

```
items: List[Item] = None
```

operationLabel `class-attribute`

```
operationLabel: str = None
```

reSubmitApi `class-attribute`

```
reSubmitApi: MSA_UI_API = None
```

remarkLabel `class-attribute`

```
remarkLabel: str = None
```

retryBtnClassName `class-attribute`

```
retryBtnClassName: str = None
```

retryBtnText `class-attribute`

```
retryBtnText: str = None
```

statusLabel `class-attribute`

```
statusLabel: str = None
```

statusLabelMap `class-attribute`

```
statusLabelMap: List[str] = None
```

statusTextMap `class-attribute`

```
statusTextMap: List[str] = None
```

submitApi `class-attribute`

```
submitApi: MSA_UI_API = None
```

tableClassName `class-attribute`

```
tableClassName: str = None
```

taskNameLabel `class-attribute`

```
taskNameLabel: str = None
```

type `class-attribute`

```
type: str = 'tasks'
```

Classes

Item

Bases: `MSAUINode`

Attributes

key `class-attribute`

```
key: str = None
```

label `class-attribute`

```
label: str = None
```

remark `class-attribute`

```
remark: str = None
```

status `class-attribute`

```
status: str = None
```

Textarea

Bases: `FormItem`

多行文本输入框

Attributes

maxLength `class-attribute`

```
maxLength: int = None
```

maxRows `class-attribute`

```
maxRows: int = None
```

minLength `class-attribute`

```
minLength: int = None
```

minRows `class-attribute`

```
minRows: int = None
```

readOnly `class-attribute`

```
readOnly: bool = None
```

showCounter `class-attribute`

```
showCounter: bool = True
```

trimContents `class-attribute`

```
trimContents: bool = None
```

type `class-attribute`

```
type: str = 'textarea'
```

Transfer

Bases: `FormItem`

穿梭器

Attributes

columns `class-attribute`

```
columns: List[dict] = None
```

delimiter `class-attribute`

```
delimiter: str = None
```

extractValue `class-attribute`

```
extractValue: bool = None
```

joinValues `class-attribute`

```
joinValues: bool = None
```

leftMode `class-attribute`

```
leftMode: str = None
```

leftOptions `class-attribute`

```
leftOptions: List[dict] = None
```

menuTpl `class-attribute`

```
menuTpl: MSAUISchemaNode = None
```

options `class-attribute`

```
options: MSAOptionsNode = None
```

resultTitle `class-attribute`

```
resultTitle: str = None
```

rightMode `class-attribute`

```
rightMode: str = None
```

searchApi `class-attribute`

```
searchApi: MSA_UI_API = None
```

searchResultMode `class-attribute`

```
searchResultMode: str = None
```

searchable `class-attribute`

```
searchable: bool = None
```

selectMode `class-attribute`

```
selectMode: str = None
```

selectTitle `class-attribute`

```
selectTitle: str = None
```

sortable `class-attribute`

```
sortable: bool = None
```

source `class-attribute`

```
source: MSA_UI_API = None
```

statistics `class-attribute`

```
statistics: bool = None
```

type `class-attribute`

```
type: Literal[
    transfer,
    transfer - picker,
    tabs - transfer,
    tabs - transfer - picker,
] = "transfer"
```

valueTpl `class-attribute`

```
valueTpl: MSAUISchemaNode = None
```

TransferPicker

Bases: `Transfer`

穿梭选择器

Attributes

type `class-attribute`

```
type: str = 'transfer-picker'
```

TreeSelect

Bases: `InputTree`

树形选择器

Attributes

hideNodePathLabel `class-attribute`

```
hideNodePathLabel: bool = None
```

type `class-attribute`

```
type: str = 'tree-select'
```

Validation

Bases: `MSABaseUIModel`

Attributes

equals `class-attribute`

```
equals: str = None
```

equalsField `class-attribute`

```
equalsField: str = None
```

isAlpha `class-attribute`

```
isAlpha: bool = None
```

isAlphanumeric `class-attribute`

```
isAlphanumeric: bool = None
```

isEmail `class-attribute`

```
isEmail: bool = None
```

isFloat `class-attribute`

```
isFloat: bool = None
```

isId `class-attribute`

```
isId: bool = None
```

isInt `class-attribute`

```
isInt: bool = None
```

isJson `class-attribute`

```
isJson: bool = None
```

isLength `class-attribute`

```
isLength: int = None
```

isNumeric `class-attribute`

```
isNumeric: bool = None
```

isPhoneNumber `class-attribute`

```
isPhoneNumber: bool = None
```

isTelNumber `class-attribute`

```
isTelNumber: bool = None
```

isUrl `class-attribute`

```
isUrl: bool = None
```

isUrlPath `class-attribute`

```
isUrlPath: bool = None
```

isZipcode `class-attribute`

```
isZipcode: bool = None
```

matchRegexp `class-attribute`

```
matchRegexp: str = None
```

maxLength `class-attribute`

```
maxLength: int = None
```

maximum `class-attribute`

```
maximum: int = None
```

minLength `class-attribute`

```
minLength: int = None
```

minimum `class-attribute`

```
minimum: int = None
```

Video

Bases: `MSAUINode`

视频

Attributes

autoPlay `class-attribute`

```
autoPlay: bool = None
```

className `class-attribute`

```
className: str = None
```

isLive `class-attribute`

```
isLive: bool = None
```

muted `class-attribute`

```
muted: bool = None
```

poster `class-attribute`

```
poster: str = None
```

rates `class-attribute`

```
rates: List[float] = None
```

src `class-attribute`

```
src: str = None
```

type `class-attribute`

```
type: str = 'video'
```

videoType `class-attribute`

```
videoType: str = None
```

Wizard

Bases: `MSAUINode`

向导

Attributes

actionClassName `class-attribute`

```
actionClassName: str = None
```

actionFinishLabel `class-attribute`

```
actionFinishLabel: str = None
```

actionNextLabel `class-attribute`

```
actionNextLabel: str = None
```

actionNextSaveLabel `class-attribute`

```
actionNextSaveLabel: str = None
```

actionPrevLabel `class-attribute`

```
actionPrevLabel: str = None
```

api `class-attribute`

```
api: MSA_UI_API = None
```

className `class-attribute`

```
className: str = None
```

initApi `class-attribute`

```
initApi: MSA_UI_API = None
```

initFetch `class-attribute`

```
initFetch: MSA_UI_API = None
```

initFetchOn `class-attribute`

```
initFetchOn: MSAUIExpression = None
```

mode `class-attribute`

```
mode: str = None
```

redirect `class-attribute`

```
redirect: MSAUITemplate = None
```

reload `class-attribute`

```
reload: str = None
```

startStep `class-attribute`

```
startStep: int = None
```

steps `class-attribute`

```
steps: List[Step] = None
```

target `class-attribute`

```
target: str = None
```

type `class-attribute`

```
type: str = 'wizard'
```

Classes

Step

Bases: `MSAUINode`

Attributes

api `class-attribute`

```
api: MSA_UI_API = None
```

body `class-attribute`

```
body: List[FormItem] = None
```

horizontal `class-attribute`

```
horizontal: Horizontal = None
```

initApi `class-attribute`

```
initApi: MSA_UI_API = None
```

initFetch `class-attribute`

```
initFetch: bool = None
```

initFetchOn `class-attribute`

```
initFetchOn: MSAUIExpression = None
```

mode `class-attribute`

```
mode: str = None
```

title `class-attribute`

```
title: str = None
```

Functions

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