

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
```

filterToggable class-attribute

```
filterToggable: 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
```

stopAutoRefreshWhenModallsOpen 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
```

checkOnClick class-attribute

```
checkOnClick: bool = None
```

className class-attribute

```
className: str = None
```

columns class-attribute

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

columnsToggable class-attribute

```
columnsToggable: 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
```

tableName class-attribute

```
tableName: 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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