

IDaaS 应用插件前端集成文档

前言

IDaaS 面向第三方应用开放了插件化的对接集成方式，满足自助开发应用自助上传使用需求，实现自产自用的目的。扩大了 ISV 对 IAM 自定义插件化接入的范围，自给自足的集成所需服务。

实现方案

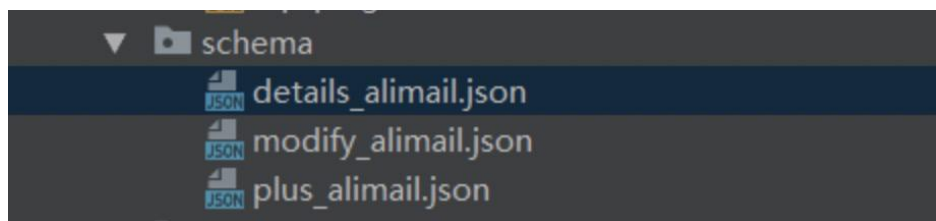
对于前端后端分离项目来说，插件化的最后一环是考虑是服务到用户端使用和呈现。因此，插件需要具有一套自说明性的 Schema 来表述自身所需的参数数据模型，前端通过定义的 Schema 数据渲染出可视化表单，在提交配置数据到服务端供服务调取使用。

插件上传之后，在浏览器请求发起拿到 Schema 数据以及默认数据之后，通过 Schema 渲染出表单，渲染过程中也会处理国际化、数据填充、以及校验规则，前端运作流程如下：



插件化的前端集成是非常简单的，在上传的插件包中包含应用方所需的表单参数 Schema 文件即可，剩下的都交给前端服务解决。

每个应用都会有新增、编辑、详情这三部分，一般新增和编辑 schema 是相同的，在插件包中默认 Schema 位置：



只需要将 UI 控件中组装进 json 文件中即可。

如何添加自己的表单 Schema 数据呢？我们会提供支持自定义 Schema UI 控件库，使用模板库中的控件数据来拼装成自己的表单数据。

UI 控件库

插件表单根据不同的控件类型数据来组成，最终渲染成我们所需要的一个完整的表单，目前表单模型支持以下类型：

input（输入框）

textarea（多行文本框）

select（下拉选框）

radio（单选按钮组）

checkbox（复选按钮组）

switch（开关按钮）

file（上传控件）

date（日期控件）

number（数字控件）

accountlinking（账户关联方式）

dynamic（动态参数）

instruction（操作指令）

下面对各种类型的控件进行描述：

input（输入框）

```
{
  "key": "name",
  "name": {
    "zh": "认证源名称",
    "en": "Name"
  },
  "type": "input",
  "readonly": false,
  "disabled": false,
  "placeholder": {
    "zh": "请填写认证源名称",
    "en": "Please enter the Name"
  },
  "description": {
    "zh": "认证源名称",
    "en": "Certification source name"
  },
  "rules": {
    "required": true,
    "message": "此项不能为空",
    "trigger": "blur"
  },
  "show": true,
  "send": true
}
```

textarea（多行文本框）

```
{
  "key": "description",
  "name": {
    "zh": "描述",
    "en": "Description"
  },
  "type": "textarea",
  "disabled": false,
  "readonly": false,
  "placeholder": {
    "zh": "请输入描述",
    "en": "Please enter the Description"
  },
  "description": {
    "zh": "",
    "en": ""
  },
  "rules": {
    "required": false,
    "message": "此项不能为空",
    "trigger": "blur"
  },
  "show": true,
  "send": true
}
```

select（下拉选框）

```

{
  "key": "allBindings",
  "name": {
    "zh": "SSO Binding",
    "en": "SSO Binding"
  },
  "type": "select",
  "options": [
    {
      "label": "POST",
      "value": {
        "zh": "POST",
        "en": "POST"
      },
      "disabled": false
    },
    {
      "label": "REDIRECT",
      "value": {
        "zh": "REDIRECT",
        "en": "REDIRECT"
      },
      "disabled": false
    }
  ],
  "disabled": false,
  "placeholder": {
    "zh": "",
    "en": ""
  },
  "description": {
    "zh": "单点登录的请求方式，REDIRECT 为 GET 类型",
    "en": "Single sign on request mode, redirect is get type"
  },
  "rules": {
    "required": false,
    "message": "此项不能为空",
    "trigger": "change"
  },
  "show": true,
  "send": true
}

```

radio（单选按钮组）

```

{
  "key": "display",
  "name": {
    "zh": "是否显示",
    "en": "Display"
  },
  "type": "radio",
  "options": [
    {
      "label": "true",
      "value": {
        "zh": "是",
        "en": "Yes"
      },
      "disabled": false
    },
    {
      "label": "false",
      "value": {
        "zh": "否",
        "en": "No"
      },
      "disabled": false
    }
  ],
  "description": {
    "zh": "是否在登录页显示",
    "en": "Choose whether to display the authentication source logo on the logon page."
  },
  "rules": {
    "required": false,
    "message": "此项不能为空",
    "trigger": "change"
  },
  "show": true,
  "send": true
}

```

checkbox (复选按钮组)

```

{
  "key": "supportedDeviceTypes",
  "name": {
    "zh": "应用类型",
    "en": "Application Type"
  },
  "type": "checkbox",
  "options": [
    {
      "label": "WEB",
      "value": {
        "zh": "Web 应用",
        "en": "Web Application"
      },
      "disabled": false
    },
    {
      "label": "MOBILE",
      "value": {
        "zh": "移动应用",
        "en": "Mobile Application"
      },
      "disabled": false
    }
  ],
  "description": {
    "zh": "“Web 应用”和“PC 客户端”只会在用户 Web 使用环境中显示，“移动应用”只会在用户客户端中显示，“数据同步”应用只用作数据的同步不会在用户侧显示，如果想在多个环境中都显示应用则勾选多个。",
    "en": "\"Mobile app\" will only be displayed in the user client, and \"data synchronization\" app will only be used for data synchronization and will not be displayed on the user side. If you want to display apps in multiple environments, check multiple apps."
  },
  "rules": {
    "required": true,
    "message": "此项不能为空",
    "trigger": "change",
    "type": "array"
  },
  "show": true,
  "send": true
}

```

switch（开关按钮）

```

{
  "key": "allowUserPrivileges",
  "name": {
    "zh": "包含用户角色",
    "en": "Include user roles"
  },
  "type": "switch",
  "disabled": false,
  "description": {
    "zh": "ID_Token 中是否包含用户角色信息",
    "en": "Whether the user role information is included in the id_token"
  },
  "rules": {
    "required": false,
    "message": "此项不能为空",
    "trigger": "change",
    "type": "boolean"
  },
  "show": true,
  "send": true
}

```

file（上传控件）

```

{
  "key": "uploadFile",
  "name": {
    "zh": "上传附件",
    "en": "Accessories"
  },
  "type": "file",
  "file": {
    "fileTypes": [
      "image/jpeg",
      "image/png"
    ],
    "maxSize": 1024
  },
  "description": {
    "zh": "",
    "en": ""
  },
  "rules": {
    "required": true,
    "message": "此项不能为空",
    "trigger": "change"
  },
  "show": true,
  "send": true
}

```


date（日期控件）

```
{
  "key": "createTime",
  "name": {
    "zh": "创建日期",
    "en": "Create Time"
  },
  "type": "date",
  "disabled": false,
  "readonly": false,
  /*
    日期控件参数设置具体可以参考文档
    (https://www.iviewui.com/components/date-picker#API),
    若参数含有中划线的需转换为下字母大写，如: start-date 写为 startDate
  */
  "date": {
    "format": "yyyy-MM-dd",
    "options": {
      "shortcuts": []
    }
  },
  "placeholder": {
    "zh": "请选择日期",
    "en": "Please select a date"
  },
  "description": {
    "zh": "不填将使用系统默认过期时间 2116-12-31",
    "en": "If not filled in, the system default expiration time 2116-12-31 will be used"
  },
  "rules": {
    "required": false,
    "message": "此项不能为空",
    "trigger": "change"
  },
  "show": true,
  "send": true
}
```

number（数字控件）

```

{
  "key": "persion",
  "name": {
    "zh": "人数占比",
    "en": "Persion"
  },
  "type": "number",
  "disabled": false,
  "readonly": false,
  /* 数字控件参数设置具体可以参考文档
  (https://www.iviewui.com/components/input-number#API) */
  "number": {
    "max": 100,
    "min": 0,
    "step": 10,
    "formatter": "%",
    "parser": "%"
  },
  "placeholder": {
    "zh": "请填写占比",
    "en": "Please enter the Proportion"
  },
  "description": {
    "zh": "",
    "en": ""
  },
  "rules": {
    "required": true,
    "message": "此项不能为空",
    "trigger": "blur",
    "type": "number"
  },
  "show": true,
  "send": true
}

```

accountlinking（账户关联方式）

```

{
  "key": "accountLinkingTemplateUuid",
  "type": "accountlinking",
  "show": true,
  "send": true
}

```

dynamic（动态参数）

```

{
  "key": "assertionAttributes",
  "name": {
    "zh": "Assertion Attribute",
    "en": "Assertion Attribute"
  },
  "type": "dynamic",
  "options": [
    {
      "key": "key",
      "value": {
        "type": "input",
        "placeholder": {
          "zh": "Assertion Attribute key",
          "en": "Assertion Attribute key"
        }
      }
    },
    {
      "key": "type",
      "value": {
        "type": "select",
        "options": [
          {
            "label": "APPLICATIONUSERNAME",
            "value": {
              "zh": "应用子账户",
              "en": "Sub-account"
            },
            "disabled": false
          },
          {
            "label": "USERNAME",
            "value": {
              "zh": "账户名称",
              "en": "Username"
            },
            "disabled": false
          },
          {
            "label": "EMAIL",
            "value": {
              "zh": "邮箱",
              "en": "Email"
            },
            "disabled": false
          },
          {
            "label": "PHONENUMBER",
            "value": {
              "zh": "手机号",
              "en": "Phone number"
            },
            "disabled": false
          },
          {
            "label": "DISPLAYNAME",
            "value": {
              "zh": "显示名称",
              "en": "Display name"
            },
            "disabled": false
          }
        ]
      }
    }
  ]
},
{
  "description": {
    "zh": "断言属性。设值后，会将值放入 SAML 断言中。名称为自定义名称，值为账户的属性值。",
    "en": ""
  },
  "rules": {
    "required": false,
    "message": "此项不能为空",
    "trigger": "blur",
    "type": "array"
  },
  "show": true,
  "send": true
}

```

instruction（操作指令）

```
{
  "key": "submitCodeList",
  "name": {
    "zh": "操作指令",
    "en": "Operation Instruction"
  },
  "type": "instruction",
  "triggerEvent": "changeCode",
  "options": {
    {
      "hidden": true,
      "label": {
        "zh": "输入用户名",
        "en": "enter user name"
      },
      "placeholder": "",
      "value": "WRITE_USERNAME"
    },
    {
      "hidden": true,
      "label": {
        "zh": "按下 Tab 键",
        "en": "Press the Tab key."
      },
      "placeholder": "",
      "value": "PRESS_TAB"
    },
    {
      "hidden": true,
      "label": {
        "zh": "输入密码",
        "en": "input password"
      },
      "placeholder": "",
      "value": "WRITE_PASSWORD"
    },
    {
      "hidden": true,
      "label": {
        "zh": "按下 Enter 键",
        "en": "Press enter"
      },
      "placeholder": "",
      "value": "PRESS_ENTER"
    },
    {
      "hidden": false,
      "label": {
        "zh": "等待几秒",
        "en": "Wait for a few seconds."
      },
      "placeholder": {
        "zh": "请输入等待时长，单位秒",
        "en": "Please enter the waiting time in seconds."
      },
      "value": "WAIT_SECONDS"
    },
    {
      "hidden": false,
      "label": {
        "zh": "鼠标左键单击",
        "en": "Left click"
      },
      "placeholder": {
        "zh": "请输入鼠标点击坐标，格式为 横坐标,纵坐标，如 1000, 150",
        "en": "Please input the coordinates of mouse click, the format is abscissa and ordinate, such as 1000|150"
      },
      "value": "MOUSE_CLICK"
    },
    {
      "hidden": true,
      "label": {
        "zh": "全选",
        "en": "All election"
      },
      "placeholder": "",
      "value": "SELECT_ALL"
    },
    {
      "hidden": false,
      "label": {
        "zh": "输入自定义值",
        "en": "Enter custom value"
      },
      "placeholder": {
        "zh": "请输入自定义值",
        "en": "Please enter a custom value"
      },
      "value": "WRITE_USER_DEFINED"
    },
    {
      "hidden": false,
      "label": {
        "zh": "输入文本框动态参数",
        "en": "Enter text box dynamic parameters"
      },
      "placeholder": {
        "zh": "请输入文本框动态参数名称",
        "en": "Please enter a text dynamic parameter name"
      },
      "value": "WRITE_DYNAMIC_TEXT"
    },
    {
      "hidden": false,
      "label": {
        "zh": "输入下拉框动态参数",
        "en": "Enter dropdown dynamic parameters"
      },
      "placeholder": {
        "zh": "请输入下拉框动态参数名称和选项，格式为 '参数名称--option1,option2...'",
        "en": "Please enter the dynamic parameter name and options in the drop-down box, for example: 'parameter name - option1, option2...'"
      },
      "value": "WRITE_DYNAMIC_SELECT"
    },
    {
      "hidden": false,
      "label": {
        "zh": "输入单选框动态参数",
        "en": "Enter radio box dynamic parameters"
      },
      "placeholder": {
        "zh": "请输入单选框动态参数名称和选项，格式为 '参数名称--radio1,radio2...'",
        "en": "Please enter the dynamic parameter name and options of the radio box, for example: 'parameter name - radio1, radio2...'"
      },
      "value": "WRITE_DYNAMIC_RADIO"
    },
    {
      "hidden": true,
      "label": {
        "zh": "窗口最大化",
        "en": "window maximizing"
      },
      "placeholder": "",
      "value": "MAX_WINDOW"
    }
  }
}
```

参数说明

参数名	描述
key	控件的唯一标识名称
name	控件的标题/显示名称/label 名称
type	控件的类型，如：input textarea select select radio checkbox switch file date；另还有特殊的一类"accountlinking"，它是固定值，请查看说明或示例
rules	校验规则，控件支持常规的校验规则设定 规则配置可参考(https://www.iviewui.com/components/form#BDYZ) 几点小知识你需要知道： input, textarea 触发(trigger)方式为：blur radio, checkbox, select, switch, file, date 触发(trigger)方式为：change checkbox 需要设置 type: "array" switch 需要设置 type: "boolean"
disabled	是否为禁用状态，Boolean 值
readonly	是否为只读状态，Boolean 值
placeholder	输入框的提示信息
description	控件的描述信息/帮助说明信息
show	是否显示控件，Boolean 值
send	是否将该参数发送至服务端，Boolean 值
options	控件的可选子项，支持 radio,checkbox,select 类型
└ label	子选项的标识名称
└ value	子选项的显示名称

file	上传控件的私有属性
└ fileTypes	上传控件所支持的上传类型, Array 类型, 如: ["image/jpeg","image/png"]
└ maxSize	上传控件所支持文件大小, Number 类型
date	日期控件的私有属性 日期控件参数设置可参考文档 (https://www.iviewui.com/components/date-picker#API), 若参数含有中划线的需转换为下字母大写, 如: start-date 写为 startDate
number	数字控件的私有属性 数字控件参数设置可参考文档 (https://www.iviewui.com/components/input-number#API)
textFormat	String 类型, 详情中的字段转换 支持类型有: s => 秒, boolean => 是/否, enabled => 启用/禁用 如: 返回数据为 600, schema 中有 textFormat 参数并且值是“s”, 即转换后显示为“600 秒”

备注:

1. 为了国际化支持, 在控件参数中有描述文字的地方都会有“zh”和“en”参数, 分别代表的是中英文, 一般在“name、placeholder、description”这些参数中会使用。
2. 在应用表单中有些应用需要“账户关联”字段, 在数据模型中单独添加 "accountlinking" 控件即可, 可参考[示例](#)。
3. 除了表单数据外, 还可以在表单头部添加说明信息, 在数据之外单独添加 explain 参数即可, 可参考附件示例。

示例

