

User Types & SubTypes In Sunbird

When a new instance of SB is created, the default User Types available are Parent, Teacher, Students etc.. But, as an adopter you can create your own userTypes/Subtypes as per your requirement/domain.

This document will show the steps to create custom user types & Subtypes as per your requirement.

Example SCENARIO.

Assume that your new SB installation is in the domain of Agriculture and

- a) you want to create and display *Farmer, Front Line Extension Workers(FLEW), KVK Admin* (KVK = Krushi Vigyan Kendra) as new User Types and to be displayed in the User Profile Screen instead of the default Teacher, Student, Parent etc..
- b) And, all the users in the state of Assam, when they select “Front Line Workers” as a userType, they should also get to see two SubTypes/Subroles called ATM(Assistant Technology Manager) and BTM(Block Technology Manager).

STEP 1 : CREATE A NEW USER TYPE USING THE FORM CREATE API

Sunbird gives the flexibility to create new user types using its form creation APIs

| <pre>curl --location '{{URL}}/api/data/v1/form/create' \ --header 'Content-Type: application/json' \ --header 'Authorization: Bearer {{API_TOKEN}}' \ --data '{ "request": { "type": "config", "action": "get", "subType": "userType", "rootOrgId": "**", "component": "portal", "data": { "action": "get", "fields": [{ "index": 0, "code": "flew", "name": "Front Line Extension Workers", "searchFilter": [], "image": "guest-img1.svg", "visibility": true, "label": "frmlmnts.lbl.flew" }] } }, {</pre> | Please replace the {{URL}} and {{API_TOKEN}} with the respective values |
|--|---|

| | |
|---|--|
| <pre>"index": 1, "code": "farmer", "name": "Farmer", "searchFilter": [], "image": "guest-img3.svg", "visibility": true, "label": "frmelmnts.lbl.farmer" }, { "index": 2, "code": "kvkadmin", "name": "KVK / Dept Admin", "searchFilter": [], "image": "guest-img3.svg", "visibility": true, "label": "frmelmnts.lbl.kvkadmin" }, { "index": 3, "code": "other", "name": "Other Users", "searchFilter": [], "image": "guest-img3.svg", "visibility": true, "label": "frmelmnts.lbl.other" }], "templateName": "userType" } }'</pre> | |
|---|--|

STEP 2: UPDATE THE *profileConfig_v2* form to configure UserType and Subtype.

Creating/Updating profileConfig_v2 form is required, to display the newly created roles in the profile form. ie. When the user selects / clicks on Profile and selects “Edit” , profileCongif_v2 form is what is loaded with the userTypes and Subtypes values.

Content preference

Role : Head teacher & Official
Sub-role : Principal
District : Baksa
State : Assam

Edit

Board : CBSE/NCERT
Medium : English
Class : Class 1, Class 2, Class 3, Class 4, Class 5
Subjects : Accountancy and Auditing

| CURL | Comment |
|--|---|
| <pre>curl --location '{URL}/api/data/v1/form/update' \ --header 'Authorization: Bearer {API_TOKEN}' \ --header 'Content-Type: application/json' \ --data '{ "request": { "type": "profileConfig_v2", "action": "get", "subType": "18", "rootOrgId": "*", "component": "*", "data": {</pre> | <p><= subType: "18" : It is the location code for the state "Assam". The location for a state can be found using the location search api. By passing this location code, we are telling the system that, this configuration will reflect only for the state</p> |

```

"templateName": "profileconfig_v2",
"action": "get",
"fields": [
  {
    "code": "name",
    "type": "input",
    "templateOptions": {
      "labelHtml": {
        "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span></sp",
        "values": {
          "$0": "Name"
        }
      },
      "hidden": true,
      "placeholder": "Enter Name",
      "multiple": false
    },
    "validations": [
      {
        "type": "required"
      }
    ]
  },
  {
    "code": "persona",
    "type": "nested_select",
    "templateOptions": {
      "hidden": true,
      "labelHtml": {
        "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span></sp",
        "values": {
          "$0": "Role"
        }
      },
      "placeholder": "Select Persona",
      "multiple": false,
      "dataSrc": {
        "marker": "SUPPORTED_PERSONA_LIST"
      }
    },
    "validations": [
      {
        "type": "required"
      }
    ]
  },
  {
    "children": {
      "farmer": [
        {
          "code": "state",
          "type": "select",
          "templateOptions": {
            "labelHtml": {
              "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span></sp",
              "values": {
                "$0": "State"
              }
            },
            "placeholder": "Select State",
            "multiple": false,
            "dataSrc": {
              "marker": "STATE_LOCATION_LIST",
              "params": {
                "useCase": "SIGNEDIN_GUEST"
              }
            }
          }
        }
      ]
    }
  }
]

```

“Assam”, ie. when the user selects ASSAM in the state down.

<= *“Children” : This object will have an array for each of the userTypes.*

```

    }
  },
  "validations": [
    {
      "type": "required"
    }
  ]
},
{
  "code": "subPersona",
  "type": "select",
  "default": null,
  "templateOptions": {
    "labelHtml": {
      "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
      "values": {
        "$0": "Subrole"
      }
    },
    "placeholder": "Select Subrole",
    "multiple": true,
    "dataSrc": {
      "marker": "SUBPERSONA_LIST",
      "params": {
        "useCase": "SIGNEDIN"
      }
    }
  },
  "options": []
},
{
  "validations": [
    {
      "type": "required"
    }
  ]
},
{
  "code": "district",
  "type": "select",
  "context": "state",
  "default": null,
  "templateOptions": {
    "labelHtml": {
      "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
      "values": {
        "$0": "District"
      }
    },
    "placeholder": "Select District",
    "multiple": false,
    "dataSrc": {
      "marker": "LOCATION_LIST",
      "params": {
        "id": "district",
        "useCase": "SIGNEDIN_GUEST"
      }
    }
  },
  "validations": [
    {
      "type": "required"
    }
  ]
},
{

```

```

        "code": "block",
        "type": "select",
        "context": "district",
        "default": null,
        "templateOptions": {
            "label": "Block",
            "placeholder": "Select Block",
            "multiple": false,
            "dataSrc": {
                "marker": "LOCATION_LIST",
                "params": {
                    "id": "block",
                    "useCase": "SIGNEDIN"
                }
            }
        },
        "validations": []
    },
    "flew": [
        {
            "code": "state",
            "type": "select",
            "templateOptions": {
                "labelHtml": {
                    "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
                    "values": {
                        "$0": "State"
                    }
                },
                "placeholder": "Select State",
                "multiple": false,
                "dataSrc": {
                    "marker": "STATE_LOCATION_LIST",
                    "params": {
                        "useCase": "SIGNEDIN_GUEST"
                    }
                }
            },
            "validations": [
                {
                    "type": "required"
                }
            ]
        },
        {
            "code": "subPersona",
            "type": "select",
            "default": null,
            "templateOptions": {
                "labelHtml": {
                    "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
                    "values": {
                        "$0": "Subrole"
                    }
                },
                "placeholder": "Select Subrole",
                "multiple": true,
                "dataSrc": {
                    "marker": "SUBPERSONA_LIST",
                    "params": {
                        "useCase": "SIGNEDIN"
                    }
                }
            },
        },
    ],


```

<= “subPersona” : This is where you define the “subType” values. I.e. in this case, when the user select “FLEW”, a “SUB ROLE” option is enabled which displays a list of “subrole”

```

      "options": [
        {
          "value": "atm",
          "label": "ATM"
        },
        {
          "value": "btm",
          "label": "BTM"
        }
      ]
    },
    "validations": [
      {
        "type": "required"
      }
    ]
  },
  {
    "code": "district",
    "type": "select",
    "context": "state",
    "default": null,
    "templateOptions": {
      "labelHtml": {
        "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
        "values": {
          "$0": "District"
        }
      },
      "placeholder": "Select District",
      "multiple": false,
      "dataSrc": {
        "marker": "LOCATION_LIST",
        "params": {
          "id": "district",
          "useCase": "SIGNEDIN_GUEST"
        }
      }
    },
    "validations": [
      {
        "type": "required"
      }
    ]
  },
  {
    "code": "block",
    "type": "select",
    "context": "district",
    "default": null,
    "templateOptions": {
      "label": "Block",
      "placeholder": "Select Block",
      "multiple": false,
      "dataSrc": {
        "marker": "LOCATION_LIST",
        "params": {
          "id": "block",
          "useCase": "SIGNEDIN"
        }
      }
    },
    "validations": []
  }
}

```

 And the Subroles are defined within the “options” array within each userTypes.

```

    ],
    "kvkadmin": [
      {
        "code": "state",
        "type": "select",
        "templateOptions": {
          "labelHtml": {
            "contents": "<span>$0&nbsp;<span class=\\\"required-asterisk\\\">*</span>",
            "values": {
              "$0": "State"
            }
          },
          "placeholder": "Select State",
          "multiple": false,
          "dataSrc": {
            "marker": "STATE_LOCATION_LIST",
            "params": {
              "useCase": "SIGNEDIN_GUEST"
            }
          }
        },
        "validations": [
          {
            "type": "required"
          }
        ]
      },
      {
        "code": "district",
        "type": "select",
        "context": "state",
        "default": null,
        "templateOptions": {
          "labelHtml": {
            "contents": "<span>$0&nbsp;<span class=\\\"required-asterisk\\\">*</span>",
            "values": {
              "$0": "District"
            }
          },
          "placeholder": "Select District",
          "multiple": false,
          "dataSrc": {
            "marker": "LOCATION_LIST",
            "params": {
              "id": "district",
              "useCase": "SIGNEDIN_GUEST"
            }
          }
        },
        "validations": [
          {
            "type": "required"
          }
        ]
      },
      {
        "code": "block",
        "type": "select",
        "context": "district",
        "default": null,
        "templateOptions": {
          "label": "Block",
          "placeholder": "Select Block",
          "multiple": false,

```



```
        "dataSrc": {
          "marker": "LOCATION_LIST",
          "params": {
            "id": "block",
            "useCase": "SIGNEDIN"
          }
        },
        "validations": []
      },
      {
        "code": "state",
        "type": "select",
        "templateOptions": {
          "labelHtml": {
            "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
            "values": {
              "$0": "State"
            }
          },
          "placeholder": "Select State",
          "multiple": false,
          "dataSrc": {
            "marker": "STATE_LOCATION_LIST",
            "params": {
              "useCase": "SIGNEDIN_GUEST"
            }
          }
        },
        "validations": [
          {
            "type": "required"
          }
        ]
      },
      {
        "code": "district",
        "type": "select",
        "context": "state",
        "default": null,
        "templateOptions": {
          "labelHtml": {
            "contents": "<span>$0&nbsp;<span class=\"required-asterisk\">*</span></span>",
            "values": {
              "$0": "District"
            }
          },
          "placeholder": "Select District",
          "multiple": false,
          "dataSrc": {
            "marker": "LOCATION_LIST",
            "params": {
              "id": "district",
              "useCase": "SIGNEDIN_GUEST"
            }
          }
        },
        "validations": [
          {
            "type": "required"
          }
        ]
      }
    ]
  }
}
```

```

    },
    {
      "code": "block",
      "type": "select",
      "context": "district",
      "default": null,
      "templateOptions": {
        "label": "Block",
        "placeholder": "Select Block",
        "multiple": false,
        "dataSrc": {
          "marker": "LOCATION_LIST",
          "params": {
            "id": "block",
            "useCase": "SIGNEDIN"
          }
        }
      },
      "validations": []
    }
  ]
}

```

Once the above configuration is done, when a user logs in, and go to his profile and click on Edit, and when he selects STATE as “Assam”, and ROLE as “FLEW”, he will see SUBROLE as “ATM” or “BTM”.

Please note that, since we set this configuration for the state “Assam” (**subType: "18"**), when the user selects any other states , they will NOT see the “subrole” option/values.

FAQs

1. Can we have different values in the SUBROLE for different user Types?

Yes, you can set the different subrole values for different user types. You need to define those in the “subPersona” sections for each of the userTypes.

2. How do I find the location code for each of the states?

```
curl -location '{URL}/api/data/v1/location/search' \  
-header 'Content-Type: application/json' \  
-header 'x-authenticated-user-token: {USER_TOKEN}' \  
-header 'Authorization: Bearer {API_KEY}' \  
-data '{  
  "request": {  
    "filters": {  
      "type": "state"  
    },  
    "sort_by": {  
      "code": "asc"  
    },  
    "limit": 5000  
  }  
}'
```