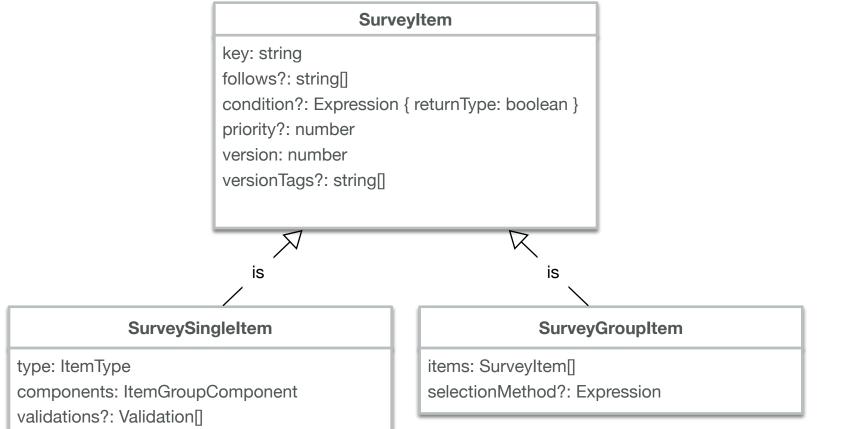## Survey
- id: string
- name: string
- current: SurveyVersion
- history?: SurveyVersion[]

SurveyVersion
- surveyDefinition: SurveyGroupItem
- published: number
- unpublished?: number

SurveyItem
- key: string
- follows?: string[]
- condition?: Expression { returnType: boolean }
- priority?: number
- version: number
- versionTags?: string[]

is → SurveySingleItem
is → SurveyGroupItem

SurveySingleItem
- type: ItemType
- components: ItemGroupComponent
- validations?: Validation[]

SurveyGroupItem
- items: SurveyItem[]
- selectionMethod?: Expression

Validation
- key: string
- rule: Expression
- type: string { "soft" | "hard" }

Expression
- name: string
- data?: ExpressionArg[]
- returnType?: string { **boolean** | "int" | "float" | "string" }

ExpressionArg
- dtype?: string { **str** | "num" | "exp" }
- exp?: Expression
- str?: string
- num?: float64

SurveyItemResponse
- key: string
- meta: ResponseMeta

is → SurveySingleItemResponse
is → SurveyGroupItemResponse

SurveySingleItemResponse
- response: ResponseItem

SurveyGroupItemResponse
- items: SurveyItemResponse[]

ItemComponent
- role: string
- displayCondition?: Expression { returnType: boolean }
- content?: LocalizedObject[]
- description?: LocalizedString[]
- disabled?: Expression { returnType: boolean }
- style?: Style[]
- key?: string

is → DisplayComponent
is → ItemGroupComponent
is → ResponseComponent

DisplayComponent

ItemGroupComponent
- items: ItemComponent[]
- order: Expression { name: **sequential** | "random" | "randomSeed" }

ResponseComponent
- dtype: string { **string** | "number" | "date" }
- properties?: ResponseComponentProperties

ResponseItem
- key: string
- value: string
- dtype: string
- items: ResponseItem[]

ResponseMeta
- position: number
- localeCode?: string
- version?: number
- rendered: number[]
- displayed: number[]
- responded: number[]

LocalizedObject
- code: string

is → LocalizedString

LocalizedString
- parts: ExpressionArg[]

Style
- key: string
- value: string

ResponseComponentProperties
- min?: ExpressionArg
- max?: ExpressionArg
- stepsize?: ExpressionArg