

## util

<<Singleton>>  
EntityHelper

```
-teacher : Teacher
-pedagogicAssistant : PedagogicAssistant
-location : Location
-room : Room
-academicYear : AcademicYear
-schoolclass : Schoolclass
-INSTANCE : EntityHelper = new EntityHelper()

-EntityHelper()
+getInstance() : EntityHelper
+getHasEntity() : Boolean
-unsetAllExcept(entity : Entity) : void
```

<<Singleton>>  
ActivityTOHolder

```
-activityTO : ActivityTO
-INSTANCE : ActivityTOHolder = new ActivityTOHolder()

-ActivityTOHolder()
+getInstance() : ActivityTOHolder
+plainActivityTO() : void
```

<<Singleton>>  
ScheduleModelHolder

```
-LOGGER : Logger = LogManager
.getLogger(ScheduleModelHolder.class)
-activityParser : ActivityParser = ActivityParser.getInstance()
-scheduleModel : ScheduleModel
-entity : Entity
-INSTANCE : ScheduleModelHolder = new ScheduleModelHolder()

-ScheduleModelHolder()
+getInstance() : ScheduleModelHolder
+emptyScheduleModel() : ScheduleModel
+updateScheduleModel() : void
```

## converters

## AcademicYearNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()
-LOGGER : Logger = LogManager
.getLogger(AcademicYearNameConverter.class)

+getAsObject(context : FacesContext, component : UIComponent, value : String) : Object
+getAsString(context : FacesContext, component : UIComponent, value : Object) : String
```

## LessonTypeNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()

+getAsObject(context : FacesContext, uiComponent : UIComponent, value : String) : Object
+getAsString(context : FacesContext, uiComponent : UIComponent, value : Object) : String
```

## EmployeeNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()

+getAsObject(context : FacesContext, component : UIComponent, value : String) : Object
+getAsString(context : FacesContext, component : UIComponent, value : Object) : String
```

## LocationNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()

+getAsObject(context : FacesContext, component : UIComponent, value : String) : Object
+getAsString(context : FacesContext, component : UIComponent, value : Object) : String
```

## SchoolclassNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()
-LOGGER : Logger = LogManager
.getLogger(SchoolclassNameConverter.class)

+getAsObject(context : FacesContext, component : UIComponent, value : String) : Object
+getAsString(context : FacesContext, component : UIComponent, value : Object) : String
```

## MeetingTypeNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()

+getAsObject(context : FacesContext, uiComponent : UIComponent, value : String) : Object
+getAsString(context : FacesContext, uiComponent : UIComponent, value : Object) : String
```

## WeekdayNameConverter

```
+getAsObject(context : FacesContext, component : UIComponent, value : String) : Object
+getAsString(context : FacesContext, component : UIComponent, value : Object) : String
```

## RoomNameConverter

```
-dataAccess : DataAccess = DataAccess.getInstance()
-LOGGER : Logger = LogManager
.getLogger(RoomNameConverter.class)

+getAsObject(context : FacesContext, component : UIComponent, value : String) : Object
+getAsString(context : FacesContext, component : UIComponent, value : Object) : String
```

## validators

## RegexNumberValidator

```
+validate(context : FacesContext, component : UIComponent, value : Object) : void
```

## TwoLocationsValidator

```
+validate(context : FacesContext, component : UIComponent, value : Object) : void
```

## TimeRangeValidator

```
+validate(context : FacesContext, component : UIComponent, value : Object) : void
```

## TeacherListValidator

```
+validate(context : FacesContext, component : UIComponent, value : Object) : void
```

## NameValidator

```
+BEAN_NAME : String = "validateBean"
+PARENT_BEAN : String = "parentBean"
-LOGGER : Logger = LogManager.getLogger(NameValidator.class)
-dataAccess : DataAccess = DataAccess.getInstance()

+validate(context : FacesContext, uiComponent : UIComponent, value : Object) : void
-getNameIsEmptyMessage() : FacesMessage
-getNameAlreadyExistsMessage() : FacesMessage
```