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Package vision

Class Summary

[Config](#)

Holds global configuration variables

[Vision](#)

Main class starts up the whole software

vision

Class Config

```
java.lang.Object
|
+--vision.Config
```

< [Fields](#) > < [Constructors](#) >

```
public class Config
extends java.lang.Object
```

Holds global configuration variables

Fields

serverUrl

```
public static final java.lang.String serverUrl
    defines where to fetch the sensor updates
```

updateIntervall

```
public static final int updateIntervall
    defines how often the sensor data is refreshed
```

Constructors

Config

```
public Config()
```

vision

Class Vision

```
java.lang.Object
|
+--vision.Vision
```

< [Constructors](#) > < [Methods](#) >

```
public class Vision
extends java.lang.Object
```

Main class starts up the whole software

Constructors

Vision

```
public Vision()
```

Methods

main

```
public static void main(java.lang.String[] args)
```

Package vision.controller

Class Summary

[Controller](#)

the main controller that passes key presses, user inputs and events to the subcontrollers and the model

[HeaterController](#)

Controller for the heater-plugin

[PluginController](#)

abstract superclass for all plugin controllers

[WindowController](#)

vision.controller

Class Controller

```
java.lang.Object
|
+--vision.controller.Controller
```

< [Constructors](#) > < [Methods](#) >

```
public class Controller
extends java.lang.Object
```

the main controller that passes key presses, user inputs and events to the subcontrollers and the model

Constructors

Controller

```
public Controller()
```

Methods

bind

```
public void bind(Nifty arg0,
                 Screen arg1)
```

binds the nifty instance to this controller

buttonClick

```
public void buttonClick(java.lang.String id,  
                        ButtonClickedEvent bce)
```

gets called by nifty if a button in the GUI was pressed

Parameters:

id - id of the clicked button

checkboxPressed

```
public void checkboxPressed(java.lang.String id)
```

gets called if a user checked or unchecked a non-plugin defined checkbox

Parameters:

id - the id of the checkbox that was pressed

createManagePluginsPopupMenu

```
public void createManagePluginsPopupMenu()
```

gets called if the user pressed the activate/deactivate button

getModel

```
public Model getModel()
```

Getter of the property model

Returns:

Returns the model.

getPluginController

```
public java.util.Collection getPluginController()
```

Getter of the property pluginController

Returns:

Returns the pluginController.

getView

```
public View getView()
```

Getter of the property view

Returns:

Returns the view.

onEndScreen

```
public void onEndScreen()
```

onStartScreen

```
public void onStartScreen()
```

pluginButton

```
public void pluginButton(java.lang.String id)
```

pluginButton gets called by nifty if a button of a plugin was pressed and forwards it to the respective plugin controller

pluginCheckbox

```
public void pluginCheckbox(java.lang.String id)
```

gets called by nifty if a checkbox of a plugin was pressed and forwards it to the respective plugin controller

setModel

```
public void setModel(Model model)
```

Setter of the property model

Parameters:

model - The model to set.

setPluginController

```
public void setPluginController(java.util.Collection pluginController)
```

Setter of the property pluginController

Parameters:

pluginController - The pluginController to set.

setView

```
public void setView(View view)
```

Setter of the property view

Parameters:

view - The view to set.

userPick

```
public void userPick(Geometry obj)
```

called if the user picked an object

Parameters:

obj - the picked geometry object

vision.controller

Class HeaterController

```
java.lang.Object
|
+--PluginController
|
+--vision.controller.HeaterController
```

< [Constructors](#) >

```
public class HeaterController
extends PluginController
```

Controller for the heater-plugin

Constructors

HeaterController

```
public HeaterController(Model model,  
                        Plugin plugin)
```

vision.controller

Class PluginController

```
java.lang.Object  
|  
+--vision.controller.PluginController
```

Direct Known Subclasses:

[HeaterController](#), [WindowController](#)

< [Constructors](#) > < [Methods](#) >

```
public abstract class PluginController  
extends java.lang.Object
```

abstract superclass for all plugin controllers

Constructors

PluginController

```
public PluginController(Model model,  
                        Plugin plugin)
```

constructs a new PluginController

Parameters:

model - the model

plugin - the plugin to manage

Methods

buttonPressed

```
public void buttonPressed(java.lang.String id)
```

callback function that gets called by the main controller if the user clicks on a plugin buttons

Parameters:

id - the id of the button

createButtons

```
public java.util.Map createButtons()
```

returns a List of plugin-defined buttons that the main system creates for the plugin

Returns:

a Map of button ids and their Text

createCheckBoxes

```
public java.util.Map createCheckBoxes()
```

returns a List of plugin-defined checkboxes (options) that the main system creates for the plugin

Returns:

a Map of checkbox ids and their texts

getModel

```
public Model getModel()
```

Getter of the property model

Returns:

Returns the model.

getPlugin1

```
public Plugin getPlugin1()
```

Getter of the property plugin1

Returns:

Returns the plugin1.

setModel

```
public void setModel(Model model)
```

Setter of the property model

Parameters:

model - The model to set.

setPlugin1

```
public void setPlugin1(Plugin plugin1)
```

Setter of the property plugin1

Parameters:

plugin1 - The plugin1 to set.

vision.controller

Class WindowController

```
java.lang.Object
|
+--PluginController
    |
    +--vision.controller.WindowController
```

< [Constructors](#) >

```
public class WindowController
extends PluginController
```

Constructors

WindowController

```
public WindowController(Model model,
                        Plugin plugin)
```

Package vision.model

Class Summary

[CustomMesh](#)

[CustomMeshCreator](#)

converts a Wall object to a renderable Mesh

[Database](#)

manages the database connection and saves sensordata

[Groundplan](#)

contains all static models, building architecture.

[JSONConverter](#)

[Model](#)

provides a facade for all objects belonging to the model

[ObjectFactory](#)

stub - autogenerated by jaxb

[PluginLoader](#)

loads all plugins from a configured subdirectory

[Position](#)

3-dimensional vector

[Sample](#)

holds a sensor measurement and the time it was taken

[Sensor](#)

The Sensor class holds all sensor data

[StaticObject](#)

implements a static object in the environment

[Update](#)

manages the server connection and fetches the sensor data

[UpdateThread](#)

updates the sensor data in the background.

[Wall](#)

vision.model

Class CustomMesh

```
java.lang.Object
|
+--Mesh
|
+--vision.model.CustomMesh
```

< [Constructors](#) >

```
public class CustomMesh
extends Mesh
```

Constructors

CustomMesh

```
public CustomMesh()
```

vision.model

Class CustomMeshCreator

```
java.lang.Object
|
+--vision.model.CustomMeshCreator
```

< [Constructors](#) > < [Methods](#) >

```
public class CustomMeshCreator
extends java.lang.Object
```

converts a Wall object to a renderable Mesh

Constructors

CustomMeshCreator

```
public CustomMeshCreator()
```

Methods

convert

```
public CustomMesh convert(Wall wall)
```

vision.model

Class Database

```
java.lang.Object
|
+--vision.model.Database
```

< [Constructors](#) > < [Methods](#) >

```
public class Database
extends java.lang.Object
```

manages the database connection and saves sensordata

Constructors

Database

```
public Database()
```

Methods

getAllSensorData

```
public java.util.List getAllSensorData(int id)
```

returns all stored samples of a sensor

Parameters:

id - id of the sensor

Returns:

a list of all sensor samples belonging to the given sensor

getSensorDataInterval

```
public java.util.List getSensorDataInterval(int id,  
                                             long from,  
                                             long to)
```

returns all samples of a sensor inbetween a given interval

Parameters:

id - id of the sensor
from - timestamp of beginning
to - timestamp of the end of the interval

Returns:

a list of all sensor samples belonging to the given sensor

getSensordata

```
public java.util.List getSensordata(int id,  
                                     int zeitpunkt)
```

fetches the sensor samples collected

updateSensors

```
public void updateSensors(java.lang.String id,  
                          int zeitpunkt,  
                          Sample messwerte)
```

saves a sensor object in the database

vision.model

Class Groundplan

```
java.lang.Object  
|  
+--vision.model.Groundplan
```

< [Constructors](#) > < [Methods](#) >

```
public class Groundplan  
extends java.lang.Object
```

contains all static models, building architecture.

Constructors

Groundplan

```
public Groundplan()
```

Methods

getWall

```
public java.util.Collection getWall()
```

Getter of the property wall

Returns:

Returns the wall.

load

```
public void load()
```

setWall

```
public void setWall(java.util.Collection wall)
```

Setter of the property wall

Parameters:

wall - The wall to set.

vision.model

Class JSONConverter

```
java.lang.Object
|
+--vision.model.JSONConverter
```

< [Constructors](#) > < [Methods](#) >

```
public class JSONConverter
extends java.lang.Object
```

Constructors

JSONConverter

```
public JSONConverter()
```

Methods

addSensorToList

```
public void addSensorToList()
```

convert

```
public void convert()
```

getSensorList

```
public java.util.List getSensorList()
```

getUrl

```
public void getUrl()
```

vision.model

Class Model

```
java.lang.Object
|
+--vision.model.Model
```

< [Constructors](#) > < [Methods](#) >

```
public class Model
extends java.lang.Object
```

provides a facade for all objects belonging to the model

Constructors

Model

```
public Model(View view)
```

Methods

getDatenbank

```
public Database getDatenbank()
```

Getter of the property datenbank

Returns:

Returns the datenbank.

getGroundplan

```
public Groundplan getGroundplan()
```

Getter of the property groundplan

Returns:

Returns the groundplan.

getPlugin

```
public java.util.Collection getPlugin()
```

Getter of the property plugin

Returns:

Returns the plugin.

getPluginList

```
public java.util.List getPluginList()
```

Getter of the property pluginList

Returns:

Returns the pluginList.

getPluginLoader

```
public PluginLoader getPluginLoader()
```

Getter of the property pluginLoader

Returns:

Returns the pluginLoader.

getSensor

```
public java.util.Collection getSensor()
```

Getter of the property sensor

Returns:

Returns the sensor.

getSensordata

```
public void getSensordata(java.lang.String id,  
                           int time)
```

getTaggedSensors

```
public void getTaggedSensors(java.util.List tags)
```

getUpdate

```
public Update getUpdate()
```

Getter of the property update

Returns:

Returns the update.

getView

```
public View getView()
```

Getter of the property view

Returns:

Returns the view.

setDatenbank

```
public void setDatenbank(Database datenbank)
```

Setter of the property datenbank

Parameters:

datenbank - The datenbank to set.

setGroundplan

```
public void setGroundplan(Groundplan groundplan)
```

Setter of the property groundplan

Parameters:

groundplan - The groundplan to set.

setPlugin

```
public void setPlugin(java.util.Collection plugin)
```

Setter of the property plugin

Parameters:

plugin - The plugin to set.

setPluginList

```
public void setPluginList(java.util.List pluginList)
```

Setter of the property pluginList

Parameters:

pluginList - The pluginList to set.

setPluginLoader

```
public void setPluginLoader(PluginLoader pluginLoader)
```

Setter of the property pluginLoader

Parameters:

pluginLoader - The pluginLoader to set.

setSensor

```
public void setSensor(java.util.Collection sensor)
```

Setter of the property sensor

Parameters:

sensor - The sensor to set.

setUpdate

```
public void setUpdate(Update update)
```

Setter of the property update

Parameters:

update - The update to set.

setView

```
public void setView(View view)
```

Setter of the property view

Parameters:

view - The view to set.

vision.model

Class ObjectFactory

```
java.lang.Object
|
+--vision.model.ObjectFactory
```

< [Constructors](#) >

```
class ObjectFactory  
extends java.lang.Object
```

stub - autogenerated by jaxb

Constructors

ObjectFactory

```
ObjectFactory()
```

vision.model

Class PluginLoader

```
java.lang.Object  
|  
+--vision.model.PluginLoader
```

< [Constructors](#) > < [Methods](#) >

```
public class PluginLoader  
extends java.lang.Object
```

loads all plugins from a configured subdirectory

Constructors

PluginLoader

```
public PluginLoader()
```

Methods

loadPlugins

```
public java.util.List loadPlugins()
```

vision.model

Class Position

```
java.lang.Object
|
+--vision.model.Position
```

< [Constructors](#) > < [Methods](#) >

```
public class Position
extends java.lang.Object
```

3-dimensional vector

Constructors

Position

```
public Position()
```

Methods

getSensor

```
public Sensor getSensor()
```

Getter of the property sensor

Returns:

Returns the sensor.

getX

```
public float getX()
```

Getter of the property x

Returns:

Returns the x.

getY

```
public float getY()
```

Getter of the property y

Returns:

Returns the y.

getZ

```
public float getZ()
```

Getter of the property z

Returns:

Returns the z.

setSensor

```
public void setSensor(Sensor sensor)
```

Setter of the property sensor

Parameters:

sensor - The sensor to set.

setX

```
public void setX(float x)
```

Setter of the property x

Parameters:

x - The x to set.

setY

```
public void setY(float y)
```

Setter of the property y

Parameters:

y - The y to set.

setZ

```
public void setZ(float z)
```

Setter of the property z

Parameters:

z - The z to set.

vision.model

Class Sample

```
java.lang.Object
|
+--vision.model.Sample
```

< [Constructors](#) > < [Methods](#) >

```
public class Sample
extends java.lang.Object
```

holds a sensor measurement and the time it was taken

Constructors

Sample

```
public Sample()
```

Methods

getMesswert

```
public void getMesswert()
```

getSensor

```
public Sensor getSensor()
```

Getter of the property sensor

Returns:

Returns the sensor.

getTyp

```
public java.lang.String getTyp()
```

Getter of the property typ

Returns:

Returns the typ.

getUnit

```
public java.lang.String getUnit()
```

Getter of the property unit

Returns:

Returns the unit.

getUpdate

```
public int getUpdate()
```

Getter of the property update

Returns:

Returns the update.

getValue

```
public float getValue()
```

Getter of the property value

Returns:

Returns the value.

setMesswert

```
public void setMesswert()
```

setSensor

```
public void setSensor(Sensor sensor)
```

Setter of the property sensor

Parameters:

sensor - The sensor to set.

setTyp

```
public void setTyp(java.lang.String typ)
```

Setter of the property typ

Parameters:

typ - The typ to set.

setUnit

```
public void setUnit(java.lang.String unit)
```

Setter of the property unit

Parameters:

unit - The unit to set.

setUpdate

```
public void setUpdate(int update)
```

Setter of the property update

Parameters:

update - The update to set.

setValue

```
public void setValue(float value)
```

Setter of the property value

Parameters:

value - The value to set.

vision.model

Class Sensor

```
java.lang.Object
|
+--vision.model.Sensor
```

< [Constructors](#) > < [Methods](#) >

```
public class Sensor
extends java.lang.Object
```

The Sensor class holds all sensor data

Constructors

Sensor

```
public Sensor()
```

Methods

getDescription

```
public java.lang.String getDescription()
```

Getter of the property Description

Returns:

Returns the description.

getId

```
public java.lang.String getId()
```

Getter of the property id

Returns:

Returns the id.

getMesswert

```
public Sample getMesswert()
```

Getter of the property messwert

Returns:

Returns the messwert.

getPosition

```
public Position getPosition()
```

Getter of the property position

Returns:

Returns the position.

getTags

```
public java.util.List getTags()
```

Getter of the property tags

Returns:

Returns the tags.

getUpdate

```
public int getUpdate()
```

Getter of the property update

Returns:

Returns the update.

isRegistered

```
public boolean isRegistered()
```

Getter of the property registered

Returns:

Returns the registered.

setDescription

```
public void setDescription(java.lang.String description)
```

Setter of the property Description

Parameters:

Description - The description to set.

setId

```
public void setId(java.lang.String id)
```

Setter of the property id

Parameters:

id - The id to set.

setMesswert

```
public void setMesswert(Sample messwert)
```

Setter of the property messwert

Parameters:

messwert - The messwert to set.

setPosition

```
public void setPosition(Position position)
```

Setter of the property position

Parameters:

position - The position to set.

setRegistered

```
public void setRegistered(boolean registered)
```

Setter of the property registered

Parameters:

registered - The registered to set.

setTags

```
public void setTags(java.util.List tags)
```

Setter of the property tags

Parameters:

tags - The tags to set.

setUpdate

```
public void setUpdate(int update)
```

Setter of the property update

Parameters:

update - The update to set.

vision.model

Class StaticObject

```
java.lang.Object
|
+--vision.model.StaticObject
```

< [Constructors](#) >

```
public class StaticObject
extends java.lang.Object
```

implements a static object in the environment

Constructors

StaticObject

```
public StaticObject()
```

vision.model

Class Update

```
java.lang.Object
|
+--vision.model.Update
```

< [Constructors](#) > < [Methods](#) >

```
public class Update
extends java.lang.Object
```

manages the server connection and fetches the sensor data

Constructors

Update

```
public Update()
```

Methods

getAllData

```
public void getAllData()
```

getDatabase

```
public Database getDatabase()
```

Getter of the property database

Returns:

Returns the database.

getDaten

```
public Model getDaten()
```

Getter of the property daten

Returns:

Returns the daten.

getJSONConverter

public [JSONConverter](#) **getJSONConverter**()

Getter of the property jSONConverter

Returns:

Returns the jsonConverter.

setDatabase

public void **setDatabase**([Database](#) database)

Setter of the property database

Parameters:

database - The database to set.

setDaten

public void **setDaten**([Model](#) daten)

Setter of the property daten

Parameters:

daten - The daten to set.

setJSONConverter

public void **setJSONConverter**([JSONConverter](#) jsonConverter)

Setter of the property jSONConverter

Parameters:

jSONConverter - The jsonConverter to set.

store

public void **store**(int time)

vision.model

Class UpdateThread

```
java.lang.Object
|
+-- java.lang.Thread
|
+-- vision.model.UpdateThread
```

All Implemented Interfaces:

java.lang.Runnable

< [Constructors](#) > < [Methods](#) >

```
public class UpdateThread
extends java.lang.Thread
```

updates the sensor data in the background.

Constructors

UpdateThread

```
public UpdateThread()
```

Methods

getUpdate

```
public Update getUpdate()
```

Getter of the property update

Returns:

Returns the update.

setUpdate

```
public void setUpdate(Update update)
```

Setter of the property update

Parameters:

update - The update to set.

vision.model

Class Wall

```
java.lang.Object
|
+--vision.model.Wall
```

< [Constructors](#) >

```
public class Wall
extends java.lang.Object
```

Constructors

Wall

```
public Wall()
```

Package vision.view

Class Summary

[GuiAppState](#)

renders the user interface

[HeaterPlugin](#)

[MainAppState](#)

Renders all static objects and rooms

[Plugin](#)

[View](#)

main class of the view package.

[WindowPlugin](#)

vision.view

Class GuiAppState

```
java.lang.Object
|
+--AbstractAppState
|
+--vision.view.GuiAppState
```

< [Constructors](#) > < [Methods](#) >

```
public class GuiAppState
extends AbstractAppState
```

renders the user interface

Constructors

GuiAppState

```
public GuiAppState()
```

Methods

initialize

```
public void initialize(AppStateManager stateManager,  
                      Application app)
```

vision.view

Class HeaterPlugin

```
java.lang.Object  
|  
+--AbstractAppState  
|   |  
|   +--Plugin  
|       |  
|       +--vision.view.HeaterPlugin
```

< [Constructors](#) > < [Methods](#) >

```
public class HeaterPlugin  
extends Plugin
```

Author:

idle This class represents the plugins of the heater

Constructors

HeaterPlugin

```
public HeaterPlugin()
```

Methods

clientUpdate

```
protected void clientUpdate(Application application)
```

updates the client

Overrides:

[clientUpdate](#) in class [Plugin](#)

getHeaters

```
public java.util.List getHeaters()
```

Getter of the property heaters

Returns:

Returns the heaters1.

setHeaters

```
public void setHeaters(java.util.List heaters)
```

Setter of the property Heizungen

Parameters:

Heizungen - The heizungen to set.

vision.view

Class MainAppState

```
java.lang.Object
|
+--AbstractAppState
|
+--vision.view.MainAppState
```

< [Constructors](#) > < [Methods](#) >

```
public class MainAppState
extends AbstractAppState
```

Renders all static objects and rooms

Constructors

MainAppState

```
public MainAppState()
```

Methods

getWallMesh

```
public java.util.Collection getWallMesh()
```

Getter of the property wallMesh

Returns:

Returns the wallMesh.

initialize

```
public void initialize(AppStateManager stateManager,  
                        Application app)
```

setWallMesh

```
public void setWallMesh(java.util.Collection wallMesh)
```

Setter of the property wallMesh

Parameters:

wallMesh - The wallMesh to set.

vision.view

Class Plugin

```
java.lang.Object  
|  
+--AbstractAppState  
|  
+--vision.view.Plugin
```

Direct Known Subclasses:

[HeaterPlugin](#), [WindowPlugin](#)

< [Constructors](#) > < [Methods](#) >

```
public abstract class Plugin  
extends AbstractAppState
```

Constructors

Plugin

```
public Plugin()
```

Methods

clientUpdate

```
protected void clientUpdate(Application application)
```

getApp

```
public Application getApp()
```

Getter of the property app

Returns:

Returns the app.

getApplication

```
protected Application getApplication()
```

getDaten

```
public Model getDaten()
```

Getter of the property daten

Returns:

Returns the daten.

getPluginController

```
public PluginController getPluginController()
```

Getter of the property pluginController

Returns:

Returns the pluginController.

getSensors

```
public java.util.List getSensors()
```

Getter of the property sensors

Returns:

Returns the sensors.

getTags

```
public java.lang.String[] getTags()
```

Getter of the property tags

Returns:

Returns the tags.

initialize

```
public void initialize(AppStateManager stateManager,  
                        Application app)
```

setDaten

```
public void setDaten(Model daten)
```

Setter of the property daten

Parameters:

daten - The daten to set.

setPluginController

```
public void setPluginController(PluginController pluginController)
```

Setter of the property pluginController

Parameters:

pluginController - The pluginController to set.

setSensors

```
public void setSensors(java.util.List sensors)
```

Setter of the property sensors

Parameters:

sensors - The sensors to set.

setTags

```
public void setTags(java.lang.String[] tags)
```

Setter of the property tags

Parameters:

tags - The tags to set.

update

```
public void update(Application application)
```

vision.view

Class View

```
java.lang.Object
|
+--SimpleApplication
|
+--vision.view.View
```

< [Constructors](#) > < [Methods](#) >

```
public class View
extends SimpleApplication
```

main class of the view package. contains the main update loop and calls the plugin and main views

Constructors

View

```
public View()
```

Methods

disablePlugin

```
public void disablePlugin(Plugin p)
```

disables a plugin

Parameters:

p - the plugin to detach

enablePlugin

```
public void enablePlugin(Plugin p)
```

enables a plugin

Parameters:

p - the plugin to enable

getController

```
public Controller getController()
```

Getter of the property controller

Returns:

Returns the controller.

getDaten

```
public Model getDaten()
```

Getter of the property daten

Returns:

Returns the daten.

getGuiAppState

```
public GuiAppState getGuiAppState()
```

Getter of the property guiAppState

Returns:

Returns the guiAppState.

getMainAppState

```
public MainAppState getMainAppState()
```

Getter of the property mainAppState

Returns:

Returns the mainAppState.

setController

```
public void setController(Controller controller)
```

Setter of the property controller

Parameters:

controller - The controller to set.

setDaten

```
public void setDaten(Model daten)
```

Setter of the property daten

Parameters:

daten - The daten to set.

setGuiAppState

```
public void setGuiAppState(GuiAppState guiAppState)
```

Setter of the property guiAppState

Parameters:

guiAppState - The guiAppState to set.

setMainAppState

```
public void setMainAppState(MainAppState mainAppState)
```

Setter of the property mainAppState

Parameters:

mainAppState - The mainAppState to set.

simpleInitApp

```
public void simpleInitApp()
```

initializes the view

simpleUpdate

```
public void simpleUpdate()
```

is called every frame by jmonkey

vision.view

Class WindowPlugin

```
java.lang.Object
|
+--AbstractAppState
|   |
|   +--Plugin
|       |
|       +--vision.view.WindowPlugin
```

< [Constructors](#) > < [Methods](#) >

```
public class WindowPlugin
extends Plugin
```

Constructors

WindowPlugin

```
public WindowPlugin()
```

Methods

clientUpdate

protected void **clientUpdate**(Application application)

Overrides:

[clientUpdate](#) in class [Plugin](#)

getWindows

public java.util.List **getWindows**()

Getter of the property windows

Returns:

Returns the windows.

setWindows

public void **setWindows**(java.util.List windows)

Setter of the property windows

Parameters:

windows - The windows to set.

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