

Class Model

Package in package 'Model'

Class Model

Version Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

Class Model diagram

Class diagram in package 'Class Model'

Class Model

Version 1.0

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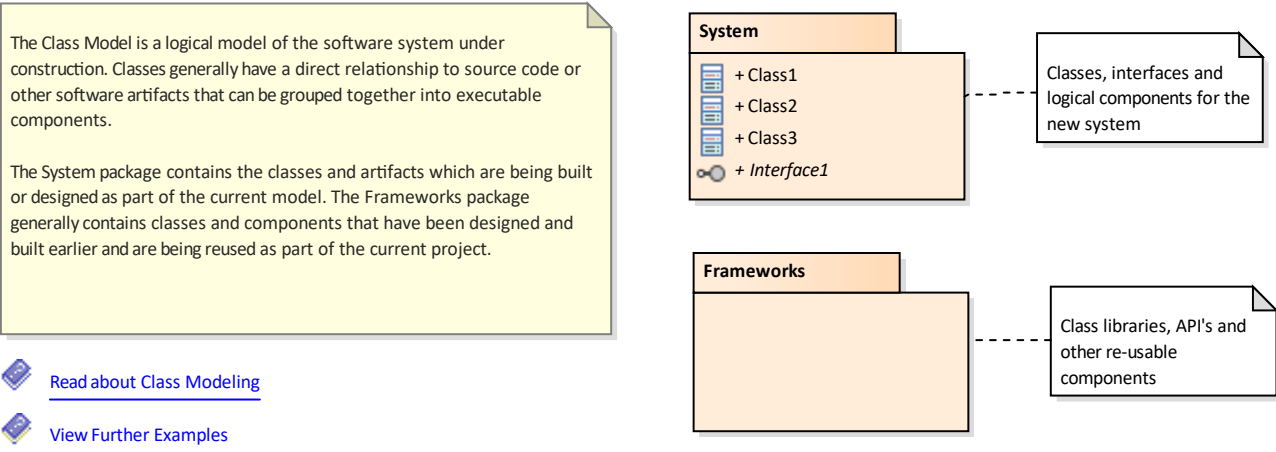


Figure 1: Class Model

Note

Note in package 'Class Model'

Classes, interfaces and logical components for the new system

Note

Version 1.0 Phase 1.0 Proposed

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Extends

Note

Note in package 'Class Model'

Class libraries, API's and other re-usable components

Note

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Extends

Note

Note in package 'Class Model'

The Class Model is a logical model of the software system under construction. Classes generally have a direct relationship to source code or other software artifacts that can be grouped together into executable components.

The System package contains the classes and artifacts which are being built or designed as part of the current model. The Frameworks package generally contains classes and components that have been designed and built earlier and are being reused as part of the current project.

Note

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Extends

\$help://class_model_pattern.htm

Text in package 'Class Model'

\$help://class_model_pattern.htm

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Alias Read about Class Modeling

Extends

\$help://classdiagram.htm

Text in package 'Class Model'

\$help://classdiagram.htm

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Alias View Further Examples

Extends

System

Package in package 'Class Model'

System

Version 1.0 Phase 1.0 Proposed

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Frameworks

Package in package 'Class Model'

Frameworks

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Package in package 'Class Model'

Final
Version 1.0
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Class diagram in package 'Final'

Final
Version 1.0
Equipo created on 26/08/2020. Last modified 26/08/2020

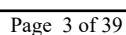



Figure 2: Final

Actividad

Class «struct» in package 'Final'

Actividad
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES	
 claveActividad : int Public = 0	[Is static False. Containment is Not Specified.]
 listaTareasXAct : BASEDEDATOS< BASEDEDATOS< Tarea > > Public Apuntador a la lista de tareas	[Is static False. Containment is Not Specified.]
 porcentajeAct : int Public Datos	[Is static False. Containment is Not Specified.]
 repeticionActividad : int Public = 0	[Is static False. Containment is Not Specified.]
 tipoActividad : int Public string tipoActividad; //(Quiz, Taller, Parcial, proyecto, exposicion).	[Is static False. Containment is Not Specified.]
ASSOCIATIONS	
 Association (direction: Source -> Destination) Source: Public (Class) Actividad «struct»	Target: Public listaTareasXAct (Class) BASEDEDATOS

BASEDEDATOS

Class in package 'Final'

BASEDEDATOS
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ATTRIBUTES

ATTRIBUTES

cabeza : nodo<T>* Private

[Is static False. Containment is Not Specified.]



limiteclave : nodo<T>* Private

[Is static False. Containment is Not Specified.]



tam : int Private

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

Association (direction: Source -> Destination)

Source: Public (Class) BASEDEDATOS

Target: Private cabeza (Class) nodo «struct»



Association (direction: Source -> Destination)

Source: Public (Class) BASEDEDATOS

Target: Private limiteclave (Class) nodo «struct»



Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private BDListaEstudiantes (Class)
BASEDEDATOS

Association (direction: Source -> Destination)

Source: Public (Class) Actividad «struct»

Target: Public listaTareasXAct (Class)
BASEDEDATOS

Association (direction: Source -> Destination)

Source: Public (Class) ControladorPersistencia

Target: Private BDListaMaterias (Class)
BASEDEDATOS

Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private BDListaGrupoMateria (Class)
BASEDEDATOS

Association (direction: Source -> Destination)

Source: Public (Class) ControladorCargar

Target: Private BDListaProfesores (Class)
BASEDEDATOS

Association (direction: Source -> Destination)

Source: Public (Class) Materia «struct»

Target: Public listaProXClase (Class)
BASEDEDATOS

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorPuntoTarea	Target: Private bdTemas (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorInicial	Target: Private BDListaMaterias (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorPersistencia	Target: Private BDListaProfesores (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) Corte «struct»	Target: Public listActDifXCor (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorTema	Target: Private bdTemas (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorCargar	Target: Private BDListaMaterias (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorAdministrador	Target: Private BDListaGrupoMateria (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorDocente	Target: Private BDListaMaterias (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorDocente	Target: Private BDListaDocente (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorAdministrador	Target: Private BDListaMaterias (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	

ASSOCIATIONS

Source: Public (Class) ControladorAdministrador

Target: Private BDListaProfesores (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorIngresoProfesor

Target: Private BDListaProfesores (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorAdministrador

Target: Private BDListaEstudiantes (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private BDListaProfesores (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorEstudiante

Target: Public BDListaGrupoMateria (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) GrupoMateria «struct»

Target: Public listaCortesXAsig (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorMateria

Target: Private BDListaMaterias (Class)
BASEDEDATOS Association (direction: Source -> Destination)


Source: Public (Class) ControladorEstudiante

Target: Public BDListaEstudiantes (Class)
BASEDEDATOS Association (direction: Source -> Destination)











Source: Public (Class) Profesor «struct»

Target: Public listaMateriaDoc (Class)
BASEDEDATOS

OPERATIONS

 anterior (clave : int) : nodo<T> * Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
 BASEDEDATOS () : Public	
Properties: bodyLocation = classDec	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 borrar (clave : int) : bool Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 buscar (clave : int) : T Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 cambiar (clave : int , infoNueva : T) : bool Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 get_tam () : int Public	
Properties: bodyLocation = classDec	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 insertar (clave : int , info : T) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 lista_vacia () : bool Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 mostrarLista (indice : int , infoRet : T* , clave : int*) : void Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 nodoSiguiente (clave : int) : nodo<T> * Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 primero () : nodo<T> * Public	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]




ControladorActividades





Class in package 'Final'



ControladorActividades
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES	
 controladorPuntoTarea : ControladorPuntoTarea Private	

ATTRIBUTES	
	[Is static False. Containment is Not Specified.]
 corte : Corte Private	[Is static False. Containment is Not Specified.]
 IdActividad : int Public Identificador de la actividad	[Is static True. Containment is Not Specified.]
 IdGrupo : int Public	[Is static True. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorActividades	Target: Private controladorPuntoTarea (Class) ControladorPuntoTarea
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorActividades	Target: Private corte (Class) Corte «struct»
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorCorte	Target: Private controladorActividades (Class) ControladorActividades

OPERATIONS	
 asignarInformacionXcorte () : int Public Se agrega informacion por corte	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 asignarPuntosXActividad () : void Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 ControladorActividades () : Public Properties: bodyLocation = classDec	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 editarPuntosActividad () : void Public	
	[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS	
 menuOpciones () : int Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 mostrarInformacionXactividad () : void Public Muestra la informacion de las actividades de cada corte [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 mostrarTipoActividades () : void Public Lista de actividades disponibles [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setcorte (corte : Corte) : void Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	

ControladorAdministrador

Class in package 'Final'

Se encarga de identificar al administrador

ControladorAdministrador
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES	
 BDListaEstudiantes : BASEDEDATOS<Estudiante> Private [Is static False. Containment is Not Specified.]	
 BDListaGrupoMateria : BASEDEDATOS<GrupoMateria> Private [Is static False. Containment is Not Specified.]	
 BDListaMaterias : BASEDEDATOS<Materia> Private [Is static False. Containment is Not Specified.]	
 BDListaProfesores : BASEDEDATOS<Profesor> Private [Is static False. Containment is Not Specified.]	
 controladorDocente : ControladorDocente Private Objeto de la clase Controlador docente [Is static False. Containment is Not Specified.]	
 controladorEstudiante : ControladorEstudiante Private	

ATTRIBUTES	
	[Is static False. Containment is Not Specified.]
 controladorMateria : ControladorMateria Private Objeto de la clase Controlador materia	[Is static False. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private controladorMateria (Class) ControladorMateria
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private controladorDocente (Class) ControladorDocente
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private controladorEstudiante (Class) ControladorEstudiante
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private BDListaGrupoMateria (Class) BASEDEDATOS
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private BDListaMaterias (Class) BASEDEDATOS
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private BDListaProfesores (Class) BASEDEDATOS
 Association (direction: Source -> Destination) Source: Public (Class) ControladorAdministrador	Target: Private BDListaEstudiantes (Class) BASEDEDATOS
 Association (direction: Source -> Destination) Source: Public (Class) ControladorInicial	Target: Private controladorAdministrador (Class) ControladorAdministrador

OPERATIONS

◆ ControladorAdministrador () : Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ crearNuevaMateria () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ funcionesAdministrador () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ menuAdministrador () : int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setBDListaEstudiantes (BDListaEstudiantes : BASEDEDATOS<Estudiante>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setBDListaGrupoMateria (BDListaGrupoMateria : BASEDEDATOS<GrupoMateria>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setBDListaMaterias (BDListaMaterias : BASEDEDATOS<Materia>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setListaProfesores (BDListaProfesores : BASEDEDATOS<Profesor>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ControladorAsigGrupoMateria

Class in package 'Final'

Controla las diferentes opciones de la lista de Materia

ControladorAsigGrupoMateria

ATTRIBUTES

 controladorCorte : ControladorCorte Private

Objeto de la clase controlador corte

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorAsigGrupoMateria

Target: Private controladorCorte (Class)
ControladorCorte

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorDocente

Target: Private controladorAsigGrupoMateria
(Class) ControladorAsigGrupoMateria

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorIngresoProfesor

Target: Private controladorAsigGrupoMateria
(Class) ControladorAsigGrupoMateria

OPERATIONS

 ControladorAsigGrupoMateria () : Public

Properties:


bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


 crearNuevoGrupoMateria (nombreMateria : Materia) : GrupoMateria Public

Creacion de un nuevo grupo de materia de acuerdo a la que se envie

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 modificarInformacionXmateria (profesor : Profesor) : int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 mostrarGrupoMateria (profesor : Profesor) : void Public

Menu opciones para la materia


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


Class in package 'Final'

Persistencia de Tema

ControladorCargar
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

 BDListaMaterias : BASEDEDATOS<Materia> Private
[Is static False. Containment is Not Specified.]

 BDListaProfesores : BASEDEDATOS<Profesor> Private
[Is static False. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorCargar

Target: Private BDListaProfesores (Class)
BASEDEDATOS


 Association (direction: Source -> Destination)

Source: Public (Class) ControladorCargar


Target: Private BDListaMaterias (Class)
BASEDEDATOS

OPERATIONS


 cargarDatos () : BASEDEDATOS<Materia> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 cargarDatosActividad (listCorte : BASEDEDATOS<Corte>) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 cargarDatosCorte (listGrupoMate : BASEDEDATOS<GrupoMateria>) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 cargarDatosGrupoMateria (listProfes : BASEDEDATOS<Profesor>) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 cargarDatosListaTarea (listActividad : BASEDEDATOS<Actividad>) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 cargarDatosProfesor (BDListaMaterias : BASEDEDATOS<Materia>) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 cargarDatosTarea (list_listTarea : BASEDEDATOS< BASEDEDATOS< Tarea > >) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS
<p>◆ ControladorCargar () : Public</p> <p>Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>
<p>◆ setBDListaMaterias (BDListaMaterias : BASEDEDATOS<Materia>) : void Public</p> <p>Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>
<p>◆ setListaProfesores (BDListaProfesores : BASEDEDATOS<Profesor>) : void Public</p> <p>Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>

ControladorCargarTema

Class in package 'Final'

Persistencia de Tema

ControladorCargarTema
Version 1.0 Phase 1.0 Proposed
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OPERATIONS
<p>◆ cargarDatosTema (listTema : BASEDEDATOS<Tema>) : void Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>
<p>◆ ControladorCargarTema () : Public</p> <p>Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>

ControladorCorte

Class in package 'Final'

Controla las diferestes opciones -----

ControladorCorte
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES

 controladorActividades : ControladorActividades Private


Objeto del controlador de actividades

[Is static False. Containment is Not Specified.]

 grupoMateria : GrupoMateria Private

Grupo materia sobre el cual se realizaran los respectivos cambios

[Is static False. Containment is Not Specified.]

 IDCorte : int Public

Identificador del corte en la BD

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorCorte

Target: Private grupoMateria (Class) GrupoMateria
«struct»

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorCorte

Target: Private controladorActividades (Class)
ControladorActividades

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorAsigGrupoMateria

Target: Private controladorCorte (Class)
ControladorCorte


OPERATIONS

 ControladorCorte () : Public

Properties:


bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 ingresarModuloactividades () : int Public

Modulo de actividades por cada corte

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 menuCortePorcentaje () : int Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 mostrarPorcentajesCortes () : void Public

OPERATIONS

Muestra la lista de los porcentajes de los cortes de acuerdo a la BD

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setGrupoMateria (grupoMateria : GrupoMateria) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ControladorDocente

Class in package 'Final'

Controla las diferestes opciones -----

ControladorDocente
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES

 BDListaDocente : BASEDEDATOS<Profesor> Private

[Is static False. Containment is Not Specified.]

 BDListaMaterias : BASEDEDATOS<Materia> Private

[Is static False. Containment is Not Specified.]


 controladorAsigGrupoMateria : ControladorAsigGrupoMateria Private

[Is static False. Containment is Not Specified.]

 controladorMateria : ControladorMateria Private

Objeto de la clase del controlador asignar grupo materia

[Is static False. Containment is Not Specified.]

 IdDocente : int Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)




Source: Public (Class) ControladorDocente








Target: Private controladorAsigGrupoMateria
(Class) ControladorAsigGrupoMateria

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorDocente

Target: Private BDListaMaterias (Class)

ASSOCIATIONS	
BASEDEDATOS	
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorDocente	Target: Private BDListaDocente (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorDocente	Target: Private controladorMateria (Class) ControladorMateria
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorAdministrador	Target: Private controladorDocente (Class) ControladorDocente

OPERATIONS
 asignarCargaAcademicaDocente (profesor : Profesor) : void Public <div>-----</div> <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>
 ControladorDocente () : Public Properties: bodyLocation = classDec <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>
 crearNuevoDocente () : int Public Permite agregar un nuevo docente a la BD de docentes <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>
 editarDocente () : void Public <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>
 eliminarDocente () : void Public <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>
 menuDocente () : int Public <div>-----</div> <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>
 mostrarListaDoc () : void Public <div>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</div>

OPERATIONS

◆ setBDBDListaMaterias (BDListaMaterias : BASEDEDATOS<Materia>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setBDListaProfesor (BDListaDocente : BASEDEDATOS<Profesor>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ SetcontroladorMateria (controladorMateria : ControladorMateria) : void Public

Properties:

bodyLocation = classDec

attribute_name = controladorMateria

[Stereotype is «property set». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ControladorEstudiante

Class in package 'Final'

ControladorEstudiante
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

◆ BDListaEstudiantes : BASEDEDATOS<Estudiante> Public

[Is static False. Containment is Not Specified.]

◆ BDListaGrupoMateria : BASEDEDATOS<GrupoMateria> Public

[Is static False. Containment is Not Specified.]

◆ claveEstudiante : int Public

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✎ Association (direction: Source -> Destination)

Source: Public (Class) ControladorEstudiante

Target: Public BDListaGrupoMateria (Class)
BASEDEDATOS

✎ Association (direction: Source -> Destination)

Source: Public (Class) ControladorEstudiante

Target: Public BDListaEstudiantes (Class)
BASEDEDATOS


ASSOCIATIONS

 Association (direction: Source -> Destination)


Source: Public (Class) ControladorAdministrador

Target: Private controladorEstudiante (Class)
ControladorEstudiante

OPERATIONS

 asignaGrupoMateria () : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 ControladorEstudiante () : Public

Properties:

bodyLocation = classDec


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 crearNuevoEstudiante () : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 menuControladorEstudiante () : int Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 mostrarListaEstudiantes () : void Public


[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setBDListaEstudiantes (BDListaEstudiantes : BASEDEDATOS<Estudiante>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 setBDListaGrupoMateria (BDListaGrupoMateria : BASEDEDATOS<GrupoMateria>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ControladorIngresoProfesor

Class in package 'Final'

Controla las diferentes opciones la lista de profesores

ControladorIngresoProfesor
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

 BDListaProfesores : BASEDEDATOS<Profesor> Private

BD de profesores

[Is static False. Containment is Not Specified.]

 controladorAsigGrupoMateria : ControladorAsigGrupoMateria Private

Objeto del controlador Asignar grupo Materia

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorIngresoProfesor

Target: Private BDListaProfesores (Class)
BASEDEDATOS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorIngresoProfesor


Target: Private controladorAsigGrupoMateria
(Class) ControladorAsigGrupoMateria

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private controladorIngresoProfesor (Class)
ControladorIngresoProfesor


OPERATIONS

 ControladorIngresoProfesor () : Public

Properties:


bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 ingresarProfesor () : int Public

Validacion del ingreso del profesor de acuerdo a su cedula

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 menuIngreso (profesor : Profesor) : int Public




Funcionalidades del profesor

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 menuProfesor () : int Public

Ingreso del docente

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



OPERATIONS
 moduloMateria (profesor : Profesor) : int Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 mostrarDatosPersonales (profesor : Profesor) : void Public Datos personales del profesor [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
 setListaProfesores (BDListaProfesores : BASEDEDATOS<Profesor>) : void Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ControladorInicial

Class in package 'Final'

Se encarga de identificar a los usuarios

ControladorInicial
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES
 BDListaEstudiantes : BASEDEDATOS<Estudiante> Private [Is static False. Containment is Not Specified.]
 BDListaGrupoMateria : BASEDEDATOS<GrupoMateria> Private [Is static False. Containment is Not Specified.]
 BDListaMaterias : BASEDEDATOS<Materia> Private Base de datos de materias [Is static False. Containment is Not Specified.]
 BDListaProfesores : BASEDEDATOS<Profesor> Private Base de datos de profesores [Is static False. Containment is Not Specified.]
 controladorAdministrador : ControladorAdministrador Private Objeto de la clase controlador administrador [Is static False. Containment is Not Specified.]
 controladorIngresoProfesor : ControladorIngresoProfesor Private

ATTRIBUTES

Objeto de la clase controlador ingreso profesor

[Is static False. Containment is Not Specified.]

ASSOCIATIONS Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private BDListaEstudiantes (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private BDListaGrupoMateria (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private controladorAdministrador (Class)
ControladorAdministrador Association (direction: Source -> Destination)


Source: Public (Class) ControladorInicial

Target: Private BDListaMaterias (Class)
BASEDEDATOS Association (direction: Source -> Destination)

Source: Public (Class) ControladorInicial

Target: Private controladorIngresoProfesor (Class)
ControladorIngresoProfesor Association (direction: Source -> Destination)


Source: Public (Class) ControladorInicial

Target: Private BDListaProfesores (Class)
BASEDEDATOS**OPERATIONS** ControladorInicial () : Public

Properties:


bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 menuInicial () : void Public

Menu opciones para el usuario

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 prueba () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

OPERATIONS

ControladorMateria

Class in package 'Final'

Controla las diferentes opciones la lista de Materia

ControladorMateria


Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

 BDListaMaterias : BASEDEDATOS<Materia> Private

[Is static False. Containment is Not Specified.]

 IDMateria : int Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorMateria

Target: Private BDListaMaterias (Class)
BASEDEDATOS

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorAdministrador

Target: Private controladorMateria (Class)
ControladorMateria

 Association (direction: Source -> Destination)

Source: Public (Class) ControladorDocente

Target: Private controladorMateria (Class)
ControladorMateria


OPERATIONS

 ControladorMateria () : Public

Properties:




bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 crearNuevaMateria () : int Public

Menu opciones para la materia

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]



OPERATIONS	
 editarMateria () : int Public [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 eliminarMateria () : int Public ----- [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 mostrarMaterias () : void Public ----- [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	
 setBDListaMaterias (BDListaMaterias : BASEDEDATOS<Materia>) : void Public Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]	



ControladorPersistencia

Class in package 'Final'

Se encarga de identificar a los usuarios

ControladorPersistencia
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES	
 BDListaMaterias : BASEDEDATOS<Materia> Private [Is static False. Containment is Not Specified.]	
 BDListaProfesores : BASEDEDATOS<Profesor> Private [Is static False. Containment is Not Specified.]	

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorPersistencia	Target: Private BDListaMaterias (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorPersistencia	Target: Private BDListaProfesores (Class) BASEDEDATOS

OPERATIONS

◆ ControladorPersistencia () : Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarActividad (listActividad : BASEDEDATOS<Actividad> , nameFile : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarCorte (listCorte : BASEDEDATOS<Corte> , nameFile : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarDatos () : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarGrupoMateria (listGrupoMate : BASEDEDATOS<GrupoMateria> , nameFile : string) : void Public

Guardado de Grupo Materia nameFile es el numero del archivo correspondiente a la clave de la lista del elemento al cual pertenece

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarListaTareas (list_listTarea : BASEDEDATOS< BASEDEDATOS< Tarea > > , nameFile : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarProfesor (listProf : BASEDEDATOS<Profesor> , nameFile : string) : void Public

Guardado de profesores nameFile es el numero del archivo correspondiente a la clave de la lista del elemento al cual pertenece

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarTarea (listTarea : BASEDEDATOS<Tarea> , nameFile : string) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ guardarTema (listTema : BASEDEDATOS< Tema >) : void Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setBDListaMaterias (BDListaMaterias : BASEDEDATOS<Materia>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ setListaProfesores (BDListaProfesores : BASEDEDATOS<Profesor>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

ControladorPersistenciaTema

Class in package 'Final'

Persistencia de Tema

ControladorPersistenciaTema
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

OPERATIONS
<p>◆ ControladorPersistenciaTema () : Public</p> <p>Properties: bodyLocation = classDec [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>
<p>◆ guardarTema (listTema : BASEDEDATOS< Tema >) : void Public</p> <p>[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]</p>

ControladorPuntoTarea

Class in package 'Final'


ControladorPuntoTarea
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES
<p>◆ bdTemas : BASEDEDATOS<Tema> Private</p> <p>[Is static False. Containment is Not Specified.]</p>
<p>◆ claveTarea : int Public</p> <p>[Is static True. Containment is Not Specified.]</p>
<p>◆ controladorTema : ControladorTema Private</p> <p>[Is static False. Containment is Not Specified.]</p>

ASSOCIATIONS
<p>✎ Association (direction: Source -> Destination)</p> <p>Source: Public (Class) ControladorPuntoTarea Target: Private bdTemas (Class) BASEDEDATOS</p>
<p>✎ Association (direction: Source -> Destination)</p> <p>Source: Public (Class) ControladorPuntoTarea Target: Private controladorTema (Class) ControladorTema</p>


ASSOCIATIONS
 Association (direction: Source -> Destination)

Source: Public (Class) ControladorActividades


Target: Private controladorPuntoTarea (Class)
ControladorPuntoTarea**OPERATIONS**
 actualizarControladorPuntoTarea () : BASEDEDATOS<Tarea> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 asignarPuntosTarea () : BASEDEDATOS<Tarea> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 asignarUnicoPTarea () : BASEDEDATOS<Tarea> Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 ControladorPuntoTarea () : Public

Properties:
bodyLocation = classDec
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 crearTarea () : BASEDEDATOS<Tarea> Public

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]
ControladorTema*Class in package 'Final'*

Controlador ingreso Temas

ControladorTema
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES
 bdTemas : BASEDEDATOS<Tema> Private
[Is static False. Containment is Not Specified.]

 claveTema : int Public
[Is static True. Containment is Not Specified.]
ASSOCIATIONS
 Association (direction: Source -> Destination)

ASSOCIATIONS

Source: Public (Class) ControladorTema

Target: Private bdTemas (Class) BASEDEDATOS

 Association (direction: Source -> Destination)



Source: Public (Class) ControladorPuntoTarea

Target: Private controladorTema (Class)
ControladorTema**OPERATIONS** ControladorTema () : Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

 ingresarTemario () : void Public-----
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] mostrarTemario () : void Public-----
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.] setBDListaTemas (bdTemas : BASEDEDATOS<Tema>) : void Public

Properties:

bodyLocation = classDec

[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]


Corte

Class «struct» in package 'Final'


Corte

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020



ATTRIBUTES claveCorte : int Public = 0



[Is static False. Containment is Not Specified.]

 inicializacion : bool Public = false

[Is static False. Containment is Not Specified.]

 listActDifXCor : BASEDEDATOS<Actividad> Public






ATTRIBUTES	
De acuerdo a la cantidad de actividades se asigna el valor	[Is static False. Containment is Not Specified.]
 numCorte : int Public = 0	[Is static False. Containment is Not Specified.]
 porcentajeCorte : int Public = 1	[Is static False. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) Corte «struct»	Target: Public listActDifXCor (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorActividades	Target: Private corte (Class) Corte «struct»

Estudiante

Class «struct» in package 'Final'





Estudiante
Version 1.0 Phase 1.0 Proposed
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ATTRIBUTES	
 apellidosEstudiante : char Public	[Is static False. Containment is Not Specified.]
 codigoEstudiante : int Public = 0	[Is static False. Containment is Not Specified.]
 listaGrupoMateria : BASEDEDATOS <GrupoMateria> Public	[Is static False. Containment is Not Specified.]
 listaNotasEstudiante : BASEDEDATOS <nota> Public	[Is static False. Containment is Not Specified.]
 nombresEstudiante : char Public	[Is static False. Containment is Not Specified.]

GrupoMateria

Class «struct» in package 'Final'

GrupoMateria
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES	
 cantidadCorte : int Public = 0	[Is static False. Containment is Not Specified.]
 grupoMateria : int Public = 0	[Is static False. Containment is Not Specified.]
 listaCortesXAsig : BASEDEDATOS<Corte> Public Para el mismo docente	[Is static False. Containment is Not Specified.]
 nombreGrupoMateria : char Public Datos	[Is static False. Containment is Not Specified.]

ASSOCIATIONS	
 Association (direction: Source -> Destination)	
Source: Public (Class) GrupoMateria «struct»	Target: Public listaCortesXAsig (Class) BASEDEDATOS
 Association (direction: Source -> Destination)	
Source: Public (Class) ControladorCorte	Target: Private grupoMateria (Class) GrupoMateria «struct»

Materia

Class «struct» in package 'Final'

Mateira generales

Materia
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES	
 idMateria : int Public = 0	[Is static False. Containment is Not Specified.]

ATTRIBUTES

 listaProXClase : BASEDEDATOS<Profesor> Public

Lista de profesores para una misma clase

[Is static False. Containment is Not Specified.]

 nombreMateria : char Public

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

Source: Public (Class) Materia «struct»

Target: Public listaProXClase (Class)
BASEDEDATOS

Profesor


Class «struct» in package 'Final'

Profesor


Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

 apellidos : char Public

[Is static False. Containment is Not Specified.]

 cedula : int Public = 0


Datos

[Is static False. Containment is Not Specified.]

 listaMateriaDoc : BASEDEDATOS<GrupoMateria> Public

De acuerdo a la cantidad de cortes se asigna el valor

[Is static False. Containment is Not Specified.]

 nombres : char Public

[Is static False. Containment is Not Specified.]

 numTotalClases : int Public

[Is static False. Containment is Not Specified.]

ASSOCIATIONS

 Association (direction: Source -> Destination)

ASSOCIATIONS

Source: Public (Class) Profesor «struct»

Target: Public listaMateriaDoc (Class)
BASEDEDATOS**Tarea***Class «struct» in package 'Final'*

Tarea

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

◆ claveTarea : int Public

Datos

[Is static False. Containment is Not Specified.]

◆ codigoTema : int Public

[Is static False. Containment is Not Specified.]

◆ nombreTema : char Public

[Is static False. Containment is Not Specified.]

◆ porcentaje : int Public

[Is static False. Containment is Not Specified.]

Tema*Class «struct» in package 'Final'*

Tema

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES

◆ codigoTema : int Public = 0

Datos Codigo de referencia para x asignatura

[Is static False. Containment is Not Specified.]

◆ indiceTema : int Public

Tema a tratar por cada asignatura

[Is static False. Containment is Not Specified.]

◆ nombreTema : char Public

[Is static False. Containment is Not Specified.]

ATTRIBUTES

nodo

Class «struct» in package 'Final'

nodo

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES



clave : int Public

[Is static False. Containment is Not Specified.]



info : T Public

[Is static False. Containment is Not Specified.]



nodoSig : nodo <T>* Public

[Is static False. Containment is Not Specified.]

ASSOCIATIONS



Association (direction: Source -> Destination)

Source: Public (Class) BASEDEDATOS

Target: Private cabeza (Class) nodo «struct»



Association (direction: Source -> Destination)

Source: Public (Class) BASEDEDATOS

Target: Private limiteclave (Class) nodo «struct»

nota

Class «struct» in package 'Final'

nota

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ATTRIBUTES



IDNota : int Public

[Is static False. Containment is Not Specified.]



temaNota : int Public

[Is static False. Containment is Not Specified.]



valorNota : int Public

ATTRIBUTES
[Is static False. Containment is Not Specified.]

System

Package in package 'Class Model'

System
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

System diagram

Class diagram in package 'System'

System
Version 1.0
Equipo created on 26/08/2020. Last modified 26/08/2020

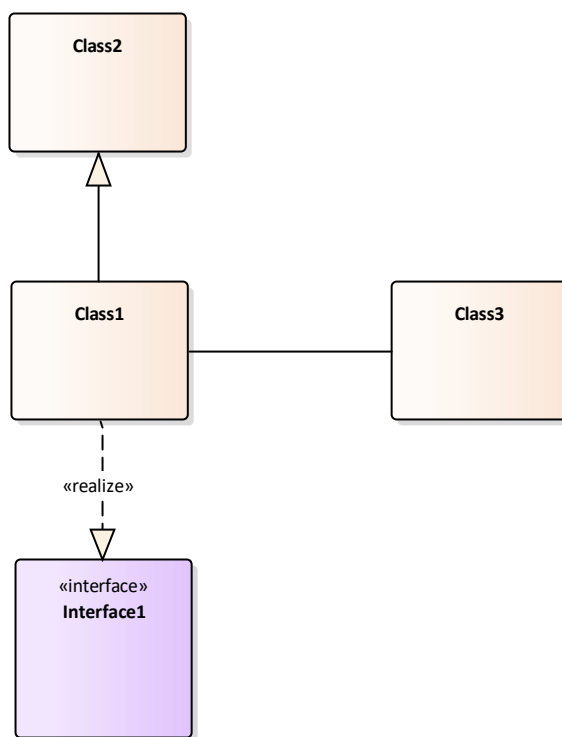


Figure 3: System

Class1


Class in package 'System'

Class1
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020
Extends Class2

OUTGOING STRUCTURAL RELATIONSHIPS

← Realization «realize» from Class1 to Interface1

[Direction is 'Source -> Destination'.]

OUTGOING STRUCTURAL RELATIONSHIPS Generalization from Class1 to Class2

[Direction is 'Source -> Destination'.]

ASSOCIATIONS Association (direction: Unspecified)

Source: Public (Class) Class1


Target: Public (Class) Class3

Class2*Class in package 'System'*

Class2

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

INCOMING STRUCTURAL RELATIONSHIPS Generalization from Class1 to Class2

[Direction is 'Source -> Destination'.]

Class3*Class in package 'System'*

Class3

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

ASSOCIATIONS Association (direction: Unspecified)

Source: Public (Class) Class1

Target: Public (Class) Class3

Interface1*Interface in package 'System'*

Interface1

Version 1.0 Phase 1.0 Proposed

Equipo created on 26/08/2020. Last modified 26/08/2020

INCOMING STRUCTURAL RELATIONSHIPS

INCOMING STRUCTURAL RELATIONSHIPS

⇒ Realization «realize» from Class1 to Interface1

[Direction is 'Source -> Destination'.]

Frameworks

Package in package 'Class Model'

Frameworks
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020

Frameworks diagram

Class diagram in package 'Frameworks'

Frameworks
Version 1.0
Equipo created on 26/08/2020. Last modified 26/08/2020



Figure 4: Frameworks

Note

Note in package 'Frameworks'

Note
Version 1.0 Phase 1.0 Proposed
Equipo created on 26/08/2020. Last modified 26/08/2020
Extends