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## Model Documentation

### Model Detail

This document provides a complete overview of all element details. For simpler and more focused reports, simply copy this initial template and turn off the sections not required.

### Model

Type:	<b>Package</b>
Status:	Proposed. Version . Phase 1.0.
Package:	
Detail:	<i>Created on 4/17/2014. Last modified on 4/17/2014</i>
GUID:	{F4E199A0-B648-482d-9501-3CC66C75A611}

### Package Model

Type:	<b>Package</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Model
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{47E60955-CCEE-457a-BB5D-98A7C8E7E261}

#### **Package Model** - (Package diagram)

Created By:	Raúl Estrada on 3/8/2014
Last Modified:	4/17/2014
Version:	1.0. <i>Locked:</i> False
GUID:	{F29FFDF3-7907-4ceb-AB65-FC0DB48B1C0F}

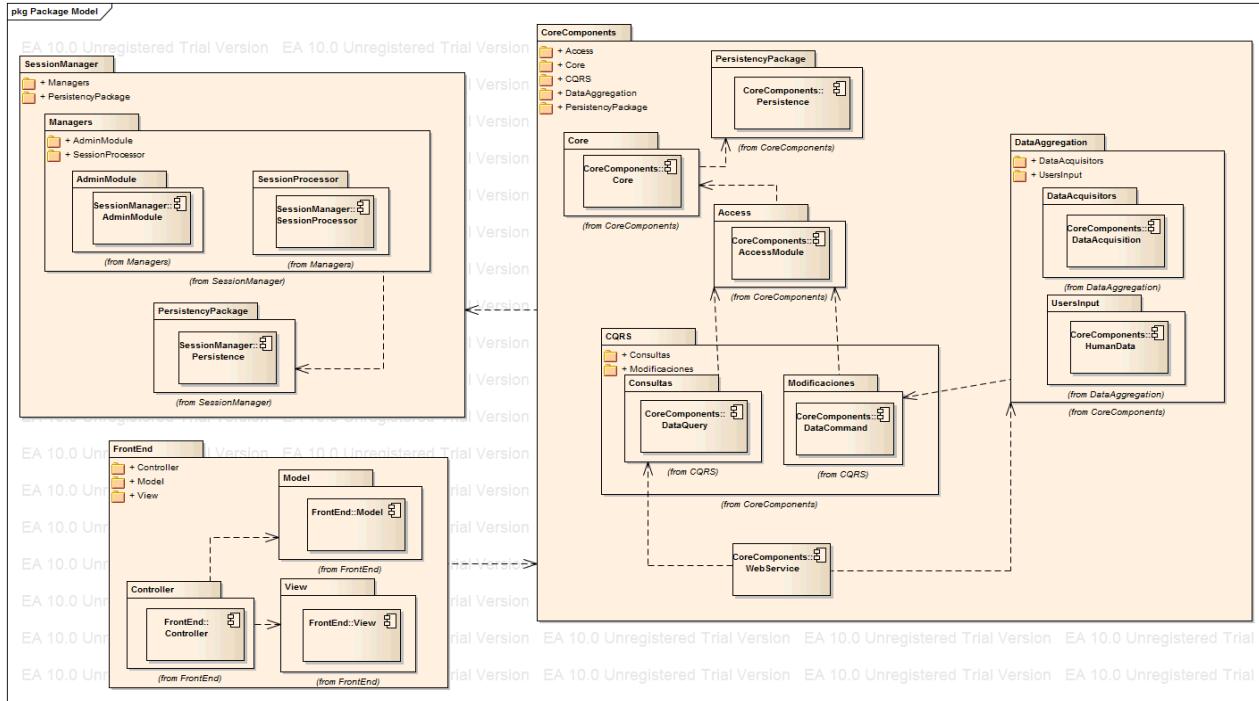


Figure: 1

## CoreComponents

<b>Type:</b>	<b>Package</b>
<b>Status:</b>	Proposed. Version 1.0. Phase 1.0.
<b>Package:</b>	Package Model
<b>Detail:</b>	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
<b>GUID:</b>	{CCF6B7FA-CECD-4fd5-BF5E-8F186A8D2765}

Package que contiene el código encargado de peticiones de usuarios, y de agregar y acceder a nuevos recursos.

## Access

<b>Type:</b>	<b>Package</b>
<b>Status:</b>	Proposed. Version 1.0. Phase 1.0.
<b>Package:</b>	CoreComponents
<b>Detail:</b>	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
<b>GUID:</b>	{8EEADB55-7E99-4ad7-9EBE-757355A7ECE8}

Package que realiza una comprobación de acceso de las peticiones. Se filtran aquellas peticiones que no pasan el filtro y se responde a aquellas que sí lo pasan.

## CQRS

<b>Type:</b>	<b>Package</b>
<b>Status:</b>	Proposed. Version 1.0. Phase 1.0.
<b>Package:</b>	CoreComponents
<b>Detail:</b>	<i>Created on 4/17/2014. Last modified on 4/17/2014</i>
<b>GUID:</b>	{27EA5AFB-D4E8-4d33-8F61-F20E4C17C764}

Package que contiene dos subpackages: uno modifica el estado del objeto, y el otro no. Esto permite aumentar la

escalabilidad y optimizar las consultas de lectura

## Consultas

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	CQRS
Detail:	<i>Created on 3/8/2014. Last modified on 4/17/2014</i>
GUID:	{42CED15B-0080-485b-B5AB-2345C80891CD}
Package que se encarga de las peticiones de consulta al sistema	

## Modificaciones

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	CQRS
Detail:	<i>Created on 4/17/2014. Last modified on 4/17/2014</i>
GUID:	{C4303119-DAF8-4804-A616-758FF5F4F0CF}
Package que se encarga de modificar la información de la base de datos del sistema	

## Core

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	CoreComponents
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{C7785F16-F3F8-4b2e-982F-F1EF0BAC1F3F}

## DataAggregation

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	CoreComponents
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{420838AD-B446-4778-9239-011992A6E30E}
Package encargado de la agregación de información al sistema. Contiene packages que están más especializados en distintos tipos de agregación.	

## DataAcquisitors

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	DataAggregation
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{BF87828F-F335-4241-885F-645B8F0F8E14}
Package que engloba la obtención de información de fuentes externas, y la agregación de estos datos al sistema.	

## UsersInput

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	DataAggregation

**Detail:** *Created on 3/8/2014. Last modified on 3/8/2014*

**GUID:** {7F2F1A7A-ADA8-457c-802D-8E6A79AE952F}

Package que contiene código de procesamiento de información que envía el usuario

## PersistencyPackage

**Type:** **Package**

**Status:** Proposed. Version 1.0. Phase 1.0.

**Package:** CoreComponents

**Detail:** *Created on 3/8/2014. Last modified on 3/8/2014*

**GUID:** {C66DEB10-B58D-4caa-9D9A-38AF472103E6}

Package que se encarga de la comunicación con el sistema de persistencia responsable de almacenar los datos e información relativa a los recursos del sistema.

## FrontEnd

**Type:** **Package**

**Status:** Proposed. Version 1.0. Phase 1.0.

**Package:** Package Model

**Detail:** *Created on 3/8/2014. Last modified on 3/8/2014*

**GUID:** {3A6B1B67-D5FB-4a24-9542-A45A04C88135}

Package principal que da soporte al código de la parte del front end.

## Controller

**Type:** **Package**

**Status:** Proposed. Version 1.0. Phase 1.0.

**Package:** FrontEnd

**Detail:** *Created on 3/8/2014. Last modified on 3/8/2014*

**GUID:** {4AC89508-C792-4adc-B311-6FE63E08B5A4}

Package que da soporte al código del controlador, es decir, que define el modo en que el sistema reacciona ante el input del usuario y gestiona la navegabilidad.

## Model

**Type:** **Package**

**Status:** Proposed. Version 1.0. Phase 1.0.

**Package:** FrontEnd

**Detail:** *Created on 3/8/2014. Last modified on 3/8/2014*

**GUID:** {55E30344-2B13-407a-AFF6-140E2425DA23}

Package que da soporte al código del modelo.

## View

**Type:** **Package**

**Status:** Proposed. Version 1.0. Phase 1.0.

**Package:** FrontEnd

**Detail:** *Created on 3/8/2014. Last modified on 3/8/2014*

**GUID:** {BC0ED509-797B-4a2b-B23A-FE43219D70C5}

Package que da soporte al código de la vista, es decir, a la representación en pantalla de los resultados de la petición del usuario.

## SessionManager

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Package Model
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{CCA5704B-2FFC-41e2-9DCE-D1465909B1D7}

Package principal para la gestión de usuarios y sesiones.

## Managers

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	SessionManager
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{6A7EC212-7035-4645-A366-2B0F8982B94E}

Package que se encarga de gestionar los distintos elementos con los que trabaja el SessionManager. Contiene otros packages Managers que se encargan de gestiones más específicas

## AdminModule

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Managers
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{02EB297C-AFEA-437c-92F0-1A858D1BC0ED}

Package que se encarga de la gestión de usuarios y grupos.

## SessionProcessor

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Managers
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{19B6D0DC-B958-4da3-9AC6-31673B6D2CC7}

Package que se encarga de la gestión de sesión.

## PersistencyPackage

Type:	Package
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	SessionManager
Detail:	<i>Created on 3/8/2014. Last modified on 3/8/2014</i>
GUID:	{2A84A61E-3691-4dfe-B79B-3C91BE299DDD}

Package que se encarga de la comunicación con el sistema de persistencia responsable de almacenar los datos tanto de usuarios, como de grupos.

## Domain Model

Type:	Package
Status:	Proposed. Version . Phase 1.0.
Package:	Model

**Detail:** Created on 3/6/2014. Last modified on 3/6/2014  
**GUID:** {7449A24E-2F30-4fed-B835-C9A74908A4AD}

### Domain Model - (Class diagram)

**Created By:** María on 3/20/2014  
**Last Modified:** 4/1/2014  
**Version:** 1.0. **Locked:** False  
**GUID:** {A0E135F3-0341-477d-AED6-5DF91F89C757}

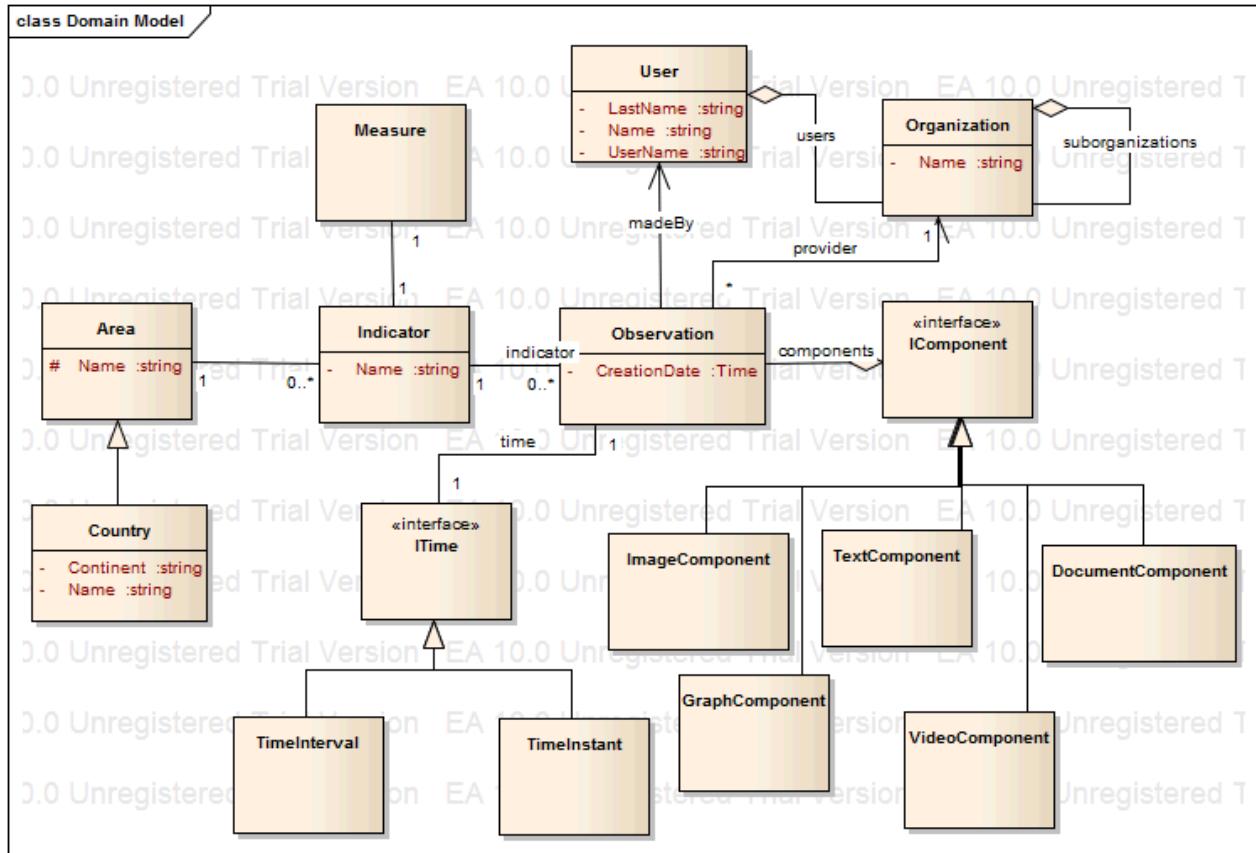


Figure: 2

## Area

**Type:** Class  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model    **Keywords:**  
**Detail:** Created on 3/20/2014. Last modified on 4/1/2014.  
**GUID:** {D68EA312-4898-42dc-B96B-048104BAC6D6}

### Custom Properties

- isActive = False

***Connections***

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public Country	Public Area	
<b>Association</b> Unspecified	Public Indicator	Public Area	

***Attributes***

Attribute	Notes	Constraints and tags
Name string Protected		<i>Default:</i>

## Country

**Type:** Class Area  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model **Keywords:**  
**Detail:** Created on 3/20/2014. Last modified on 4/1/2014.  
**GUID:** {92AC7EA1-67A5-4486-9320-C44280542ECD}

***Custom Properties***

- isActive = False

***Connections***

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public Country	Public Area	

***Attributes***

Attribute	Notes	Constraints and tags
Continent string Private		<i>Default:</i>

Attribute	Notes	Constraints and tags
<b>Name</b> string Private		<i>Default:</i>

## DocumentComponent

**Type:** Class **IComponent**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model **Keywords:**  
**Detail:** *Created on 4/1/2014. Last modified on 4/1/2014.*  
**GUID:** {32FF72E1-1DD3-4f3a-81B1-1C51A4393AD0}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public DocumentComponent	Public IComponent	

## GraphComponent

**Type:** Class **IComponent**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model **Keywords:**  
**Detail:** *Created on 4/1/2014. Last modified on 4/1/2014.*  
**GUID:** {9C6EB21A-30FE-41d0-B4BE-F0A422B02A35}

### Custom Properties

- isActive = False

***Connections***

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public GraphComponent	Public IComponent	

## IComponent

**Type:** Class**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Domain Model    **Keywords:****Detail:** *Created on 4/1/2014. Last modified on 4/1/2014.***GUID:** {5DD72AA4-7D60-423e-B391-55E0158BB5DE}***Custom Properties***

- isActive = False

***Connections***

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public ImageComponent	Public IComponent	
<b>Generalization</b> Source -> Destination	Public DocumentComponent	Public IComponent	
<b>Generalization</b> Source -> Destination	Public VideoComponent	Public IComponent	
<b>Generalization</b> Source -> Destination	Public TextComponent	Public IComponent	
<b>Generalization</b> Source -> Destination	Public GraphComponent	Public IComponent	
<b>Aggregation</b> components Source -> Destination	Public Observation	Public IComponent	

## ITime

**Type:** Class**Status:** Proposed. Version 1.0. Phase 1.0.**Package:** Domain Model    **Keywords:**

*Detail:* Created on 3/20/2014. Last modified on 4/1/2014.  
*GUID:* {008FA8FC-B16E-4198-8154-ADFCE2842147}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public TimeInterval	Public ITime	
<b>Generalization</b> Source -> Destination	Public TimeInstant	Public ITime	
<b>Association</b> time Unspecified	Public Observation	Public ITime	

## ImageComponent

*Type:* Class **IComponent**  
*Status:* Proposed. Version 1.0. Phase 1.0.  
*Package:* Domain Model *Keywords:*  
*Detail:* Created on 4/1/2014. Last modified on 4/1/2014.  
*GUID:* {55550A4A-3897-447a-B012-F6DBA73AF1F5}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public ImageComponent	Public IComponent	

## Indicator

*Type:* Class  
*Status:* Proposed. Version 1.0. Phase 1.0.  
*Package:* Domain Model *Keywords:*  
*Detail:* Created on 3/20/2014. Last modified on 4/1/2014.

**GUID:** {1A41F80D-253F-4b23-9A42-D626D1448D36}

#### Custom Properties

- isActive = False

#### Connections

Connector	Source	Target	Notes
<b>Association</b> Unspecified	Public Indicator	Public Measure	
<b>Association</b> Unspecified	Public Indicator	Public Area	
<b>Association</b> indicator Unspecified	Public Indicator	Public Observation	

#### Attributes

Attribute	Notes	Constraints and tags
<b>Name</b> string Private		<i>Default:</i>

## Measure

**Type:** Class  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model    **Keywords:**  
**Detail:** *Created on 3/20/2014. Last modified on 3/20/2014.*  
**GUID:** {D58CE5F2-1343-4264-9258-48E1D47F2F2C}

#### Custom Properties

- isActive = False

#### Connections

Connector	Source	Target	Notes

Connector	Source	Target	Notes
<b>Association</b> Unspecified	Public Indicator	Public Measure	

## Observation

**Type:** **Class**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model    **Keywords:**  
**Detail:** *Created on 3/20/2014. Last modified on 4/1/2014.*  
**GUID:** {26317A11-FDAF-4a49-B032-88097B0DA5CF}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Aggregation</b> components Source -> Destination	Public Observation	Public IComponent	
<b>Association</b> indicator Unspecified	Public Indicator	Public Observation	
<b>Association</b> madeBy Source -> Destination	Public Observation	Public User	
<b>Association</b> provider Destination -> Source	Public Organization	Public Observation	
<b>Association</b> time Unspecified	Public Observation	Public ITime	

### Attributes

Attribute	Notes	Constraints and tags
<b>CreationDate</b> Time Private		<i>Default:</i>

## Organization

Type:	<b>Class</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Domain Model <b>Keywords:</b>
Detail:	<i>Created on 3/20/2014. Last modified on 4/1/2014.</i>
GUID:	{DDA94DCA-6153-4433-B930-A7F5EDC6E708}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Association</b> provider Destination -> Source	Public Organization	Public Observation	
<b>Aggregation</b> suborganizations Source -> Destination	Public Organization	Public Organization	
<b>Aggregation</b> users Source -> Destination	Public Organization	Public User	

### Attributes

Attribute	Notes	Constraints and tags
Name string Private		<i>Default:</i>

## TextComponent

Type:	<b>Class</b> <b>IComponent</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Domain Model <b>Keywords:</b>
Detail:	<i>Created on 4/1/2014. Last modified on 4/1/2014.</i>
GUID:	{1A39AB5F-D222-4196-AF1C-9901FC49C342}

**Custom Properties**

- isActive = False

**Connections**

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public TextComponent	Public IComponent	

**TimeInstant**

Type: **Class** **ITime**  
 Status: Proposed. Version 1.0. Phase 1.0.  
 Package: Domain Model **Keywords:**  
 Detail: *Created on 3/20/2014. Last modified on 3/20/2014.*  
 G UID: {1042E2F7-CC77-4b86-87FA-F21E91D4E368}

**Custom Properties**

- isActive = False

**Connections**

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public TimeInstant	Public ITime	

**TimeInterval**

Type: **Class** **ITime**  
 Status: Proposed. Version 1.0. Phase 1.0.  
 Package: Domain Model **Keywords:**  
 Detail: *Created on 3/20/2014. Last modified on 4/1/2014.*  
 G UID: {465EC727-C3E2-4f54-A32A-83A8E3A0D645}

**Custom Properties**

- isActive = False

**Connections**

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public TimeInterval	Public ITime	

## User

**Type:** **Class**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model    **Keywords:**  
**Detail:** *Created on 3/20/2014. Last modified on 4/1/2014.*  
**GUID:** {5DBE0CC5-E0FF-41fd-87C9-9D4B42A6A199}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Association</b> madeBy Source -> Destination	Public Observation	Public User	
<b>Aggregation</b> users Source -> Destination	Public Organization	Public User	

### Attributes

Attribute	Notes	Constraints and tags
<b>LastName</b> string Private		<i>Default:</i>
<b>Name</b> string Private		<i>Default:</i>
<b>UserName</b> string Private		<i>Default:</i>

Attribute	Notes	Constraints and tags

## VideoComponent

**Type:** Class **IComponent**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Domain Model **Keywords:**  
**Detail:** *Created on 4/1/2014. Last modified on 4/1/2014.*  
**GUID:** {BE208071-D7BA-4c34-A5BB-247F2E108F4C}

### Custom Properties

- isActive = False

### Connections

Connector	Source	Target	Notes
<b>Generalization</b> Source -> Destination	Public VideoComponent	Public IComponent	

## Class Model

**Type:** Package  
**Status:** Proposed. Version . Phase 1.0.  
**Package:** Model  
**Detail:** *Created on 3/6/2014. Last modified on 3/6/2014*  
**GUID:** {BC0628FC-32B9-4579-92AC-C6D08A0EEA28}

## System

**Type:** Package  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Class Model  
**Detail:** *Created on 11/19/2005. Last modified on 11/19/2005*  
**GUID:** {FF5EFA81-007F-42d3-87DE-BD3E8DAAE754}

### System - (Class diagram)

**Created By:** María on 11/20/2005  
**Last Modified:** 3/7/2014  
**Version:** 1.0. **Locked:** False

**GUID:** {4D9C185A-21D9-4512-BF6B-20070A4406A3}

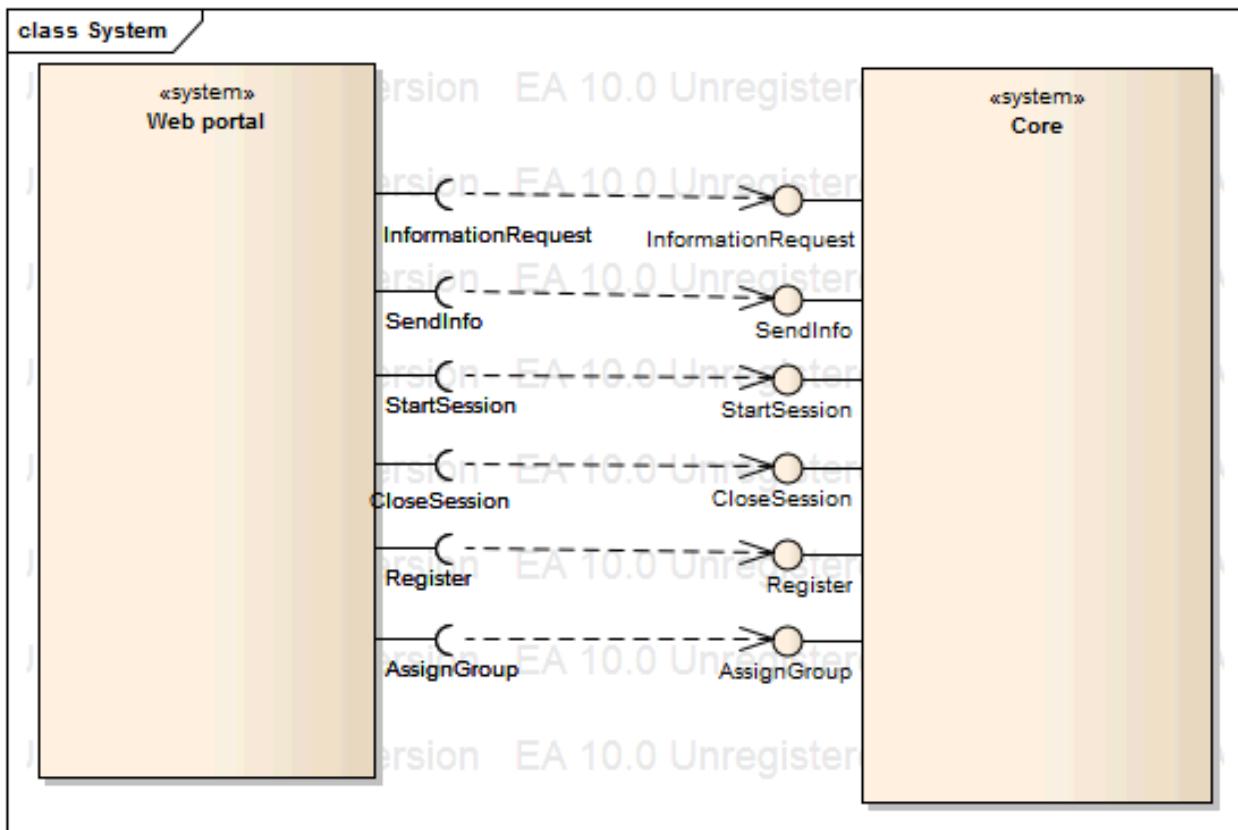


Figure: 3

## Core

**Type:** Class  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** System    **Keywords:**  
**Detail:** Created on 3/6/2014. Last modified on 3/7/2014.  
**GUID:** {BC81E61B-6341-42f6-B17E-8AFA8A2BEAE3}

Subsistema correspondiente al sistema central del portal.

### Custom Properties

- isActive = False

### Embedded Elements

Element	Detail	Notes
ProvidedInterface AssignGroup	Version: 1.0	Recibe una petición para añadir a un usuario a un determinado grupo y la procesa

Element	Detail	Notes
ProvidedInterface CloseSession	Version: 1.0	Recibe la solicitud de fin de sesión y la procesa.
ProvidedInterface InformationRequest	Version: 1.0	Recibe la petición de información del usuario y la procesa.
ProvidedInterface Register	Version: 1.0	Recibe la solicitud por parte del usuario y la procesa. Añade al nuevo usuario a la base de datos.
ProvidedInterface SendInfo	Version: 1.0	Recibe la información aportada por el usuario y la procesa.
ProvidedInterface StartSession	Version: 1.0	Recibe el inicio de sesión del usuario y lo valida.

## Web portal

**Type:** **Class**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** System    **Keywords:**  
**Detail:** *Created on 3/6/2014. Last modified on 3/7/2014.*  
**GUID:** {D4B77BB2-B356-4390-A2B8-2C1281AFB485}

Subsistema correspondiente a la parte de cliente web.

### Custom Properties

- isActive = False

### Embedded Elements

Element	Detail	Notes
RequiredInterface AssignGroup	Version: 1.0	
RequiredInterface CloseSession	Version: 1.0	Un usuario solicita el cierre de su sesión en el portal web.
RequiredInterface InformationRequest	Version: 1.0	Un usuario solicita información a través del navegador web.
RequiredInterface Register	Version: 1.0	Un usuario solicita registrarse en el portal web.
RequiredInterface SendInfo	Version: 1.0	Un usuario aporta información.
RequiredInterface StartSession	Version: 1.0	Un usuario solicita iniciar sesión en el portal Web.

## Component Model

**Type:** **Package**  
**Status:** Proposed. Version . Phase 1.0.  
**Package:** Model  
**Detail:** *Created on 3/6/2014. Last modified on 3/6/2014*  
**GUID:** {F0F029F9-75C5-46cd-948B-36EF6995EB63}

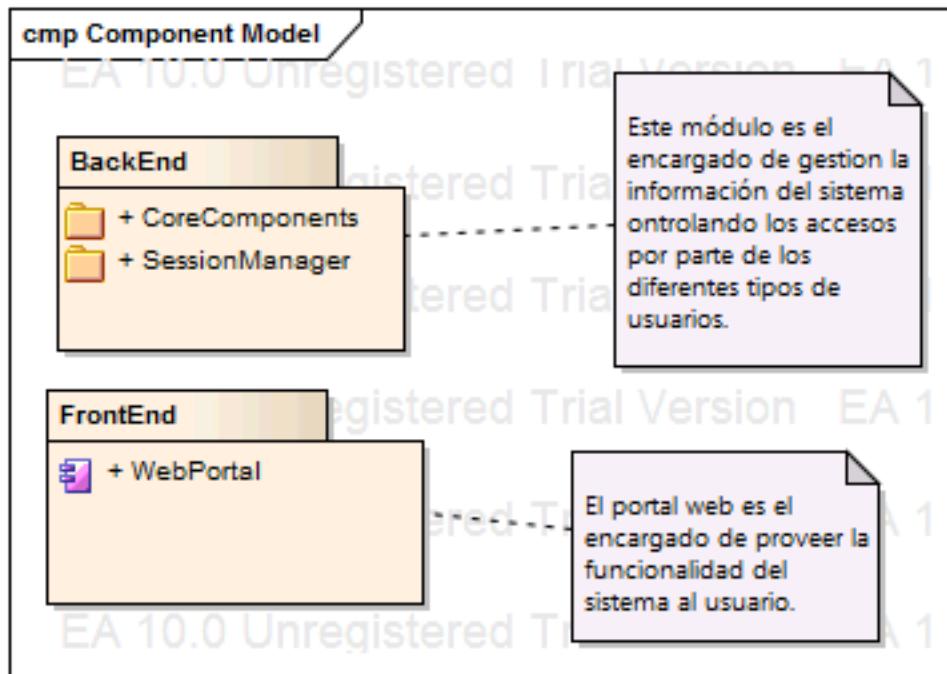
**Component Model** - (*Component diagram*)*Created By:* María on 11/19/2005*Last Modified:* 3/10/2014*Version:* 1.0. *Locked:* False*GUID:* {4C850A56-2C25-4c24-860F-7B5E1F6ABA46}

Figure: 4

**BackEnd***Type:* **Package***Status:* Proposed. Version 1.0. Phase 1.0.*Package:* Component Model*Detail:* Created on 3/6/2014. Last modified on 3/7/2014*GUID:* {8DF1FE75-012A-4779-9BA4-2423249D5268}

Muestra los principales componentes del Core.

**BackEnd** - (*Component diagram*)*Created By:* Raúl Estrada on 3/7/2014*Last Modified:* 4/17/2014*Version:* 1.0. *Locked:* False*GUID:* {CF9E22D7-1E1E-40ce-B27C-D4892C0167B0}

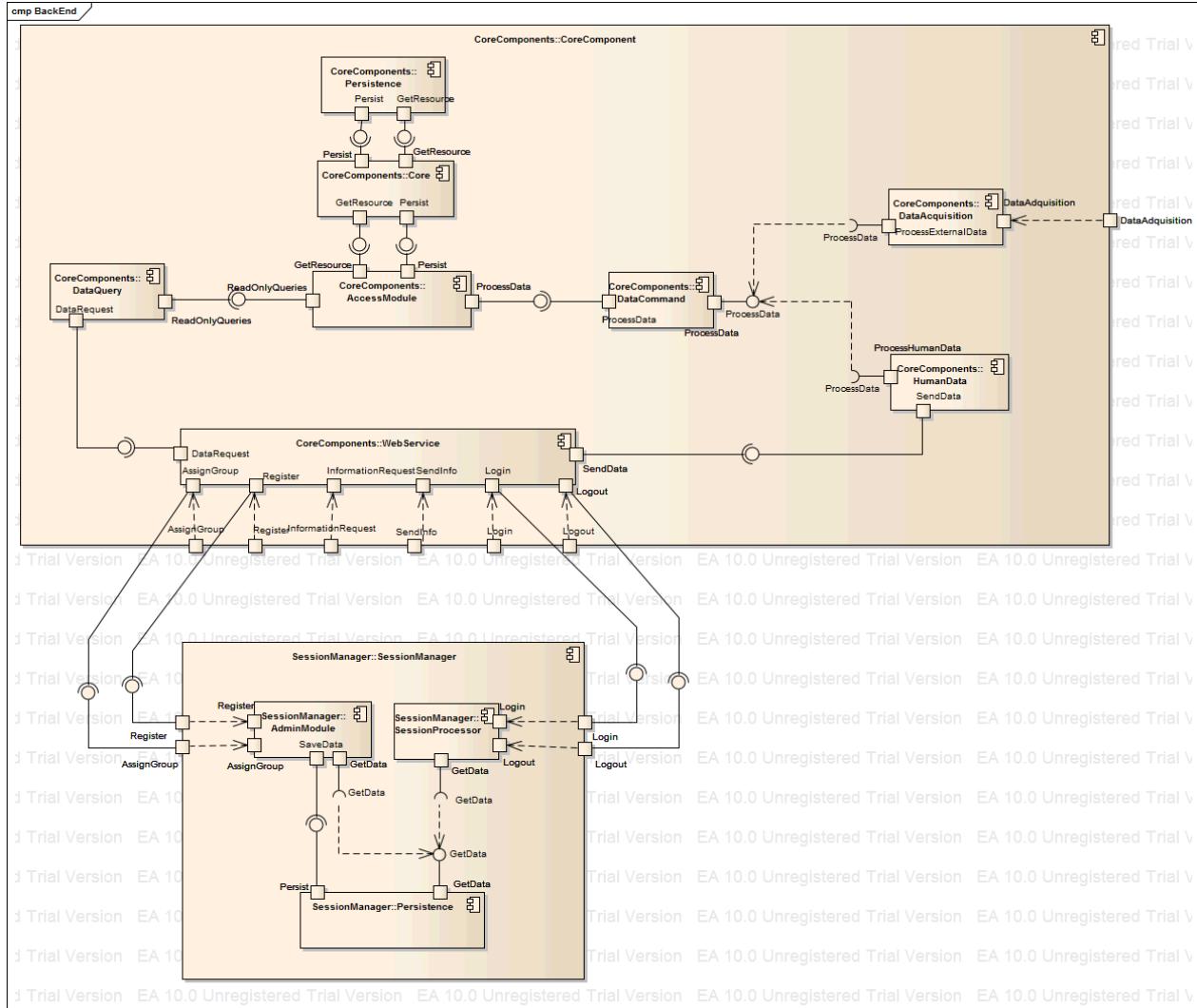


Figure: 5

## CoreComponents

**Type:** Package  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** BackEnd  
**Detail:** Created on 3/7/2014. Last modified on 3/7/2014  
**GUID:** {8E2473BA-F59D-479c-AC73-E21D3C0B383B}

### CoreComponents - (Component diagram)

**Created By:** Raúl Estrada on 3/7/2014  
**Last Modified:** 4/17/2014  
**Version:** 1.0. **Locked:** False  
**GUID:** {20B2E3EE-2D25-470c-B6F1-8F6CFB9341DC}

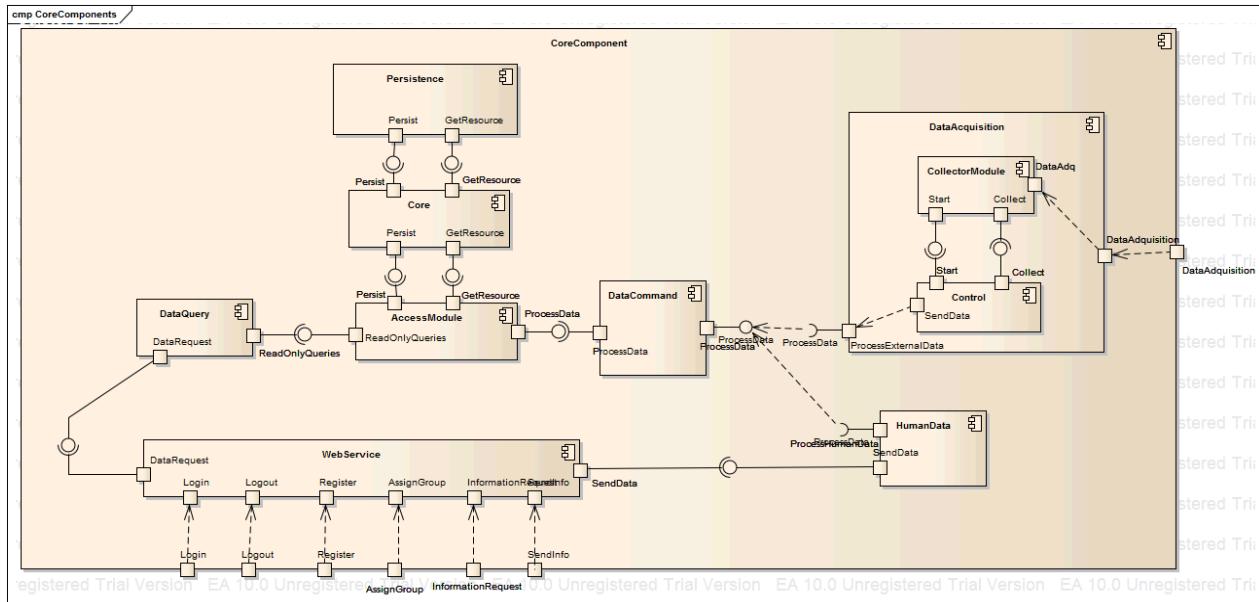


Figure: 6

## CoreComponent

Type:	<b>Component</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	CoreComponents
Detail:	Created on 3/6/2014. Last modified on 3/10/2014.
GUID:	{12758317-6475-41fc-99FF-DC1A3FC58B04}

Es el encargado de gestionar la información y el acceso a los recursos proveidos por el sistema. Lo realiza a través de un WebService como interfaz controlando el acceso de los usuarios.

### Custom Properties

- `isIndirectlyInstantiated = True`

### Connections

Connector	Source	Target	Notes
<b>Dependency</b> Source -> Destination	Public CoreComponent	Public SendInfo	

### Embedded Elements

Element	Detail	Notes
Port AssignGroup	Version: 1.0	
Port DataAdquisition	Version: 1.0	
Port InformationRequest	Version: 1.0	

Element	Detail	Notes
Port Login	Version: 1.0	
Port Logout	Version: 1.0	
Port Register	Version: 1.0	
Port SendInfo	Version: 1.0	

## AccessModule

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** Created on 3/6/2014. Last modified on 3/7/2014.  
**GUID:** {53F701E4-D013-4210-80B3-9B775EF10AAA}

Módulo que recibe las peticiones de acceso o modificación de información y comprueba los permisos para ver si el usuario puede realizar dicha acción.

Este componente pide al componente Core el recurso al que se intenta acceder, y una vez lo recibe, comprueba si el usuario tiene privilegios para acceder a éste.

### Custom Properties

- isIndirectlyInstantiated = True

### Embedded Elements

Element	Detail	Notes
Port GetResource	Version: 1.0	
Port Persist	Version: 1.0	
Port ProcessData	Version: 1.0	
Port ProcessHumanData	Version: 1.0	
Port ReadOnlyQueries	Version: 1.0	

## Core

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** Created on 3/7/2014. Last modified on 3/7/2014.  
**GUID:** {3C989297-A83C-4172-ACB0-2A5A2A1B7E63}

**Custom Properties**

- isIndirectlyInstantiated = True

**Embedded Elements**

Element	Detail	Notes
Port GetResource	Version: 1.0	
Port GetResource	Version: 1.0	
Port Persist	Version: 1.0	
Port Persist	Version: 1.0	

**DataAcquisition**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** Created on 3/6/2014. Last modified on 3/8/2014.  
**GUID:** {B4D9315F-05F0-4af4-9E66-9C020FFA72DC}

Obtiene y procesa los datos obtenidos de fuentes externas.

**Custom Properties**

- isIndirectlyInstantiated = True

**Embedded Elements**

Element	Detail	Notes
Port DataAdquisition	Version: 1.0	
Port ProcessExternalData	Version: 1.0	

**CollectorModule**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** Created on 3/7/2014. Last modified on 3/7/2014.  
**GUID:** {83EEDC8E-01FB-40c9-8BE0-F74955B0A32A}

**Custom Properties**

**Custom Properties**

- isIndirectlyInstantiated = True

**Embedded Elements**

Element	Detail	Notes
Port Collect	Version: 1.0	
Port DataAdq	Version: 1.0	
Port Start	Version: 1.0	

**Control**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** *Created on 3/7/2014. Last modified on 3/7/2014.*  
**GUID:** {22940380-3F2A-404c-B025-E2AC200CEF6A}

**Custom Properties**

- isIndirectlyInstantiated = True

**Embedded Elements**

Element	Detail	Notes
Port Collect	Version: 1.0	
Port SendData	Version: 1.0	
Port Start	Version: 1.0	

**DataCommand**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** *Created on 4/17/2014. Last modified on 4/17/2014.*  
**GUID:** {91F9A908-B0A1-4c97-8166-303C2C573ADF}

Módulo que gestiona las operaciones de modificación de información por parte del portal web y de los sistemas de recolección de datos externos

**Custom Properties**

- isIndirectlyInstantiated = True

**Embedded Elements**

Element	Detail	Notes
Port ProcessData	Version: 1.0	
Port ProcessData	Version: 1.0	

**DataQuery**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** *Created on 3/6/2014. Last modified on 3/28/2014.*  
**GUID:** {E07F7996-280C-499e-BECA-D15F76BB0B70}

Módulo que gestiona las consultas de información por parte del portal web.

**Custom Properties**

- isIndirectlyInstantiated = True

**Embedded Elements**

Element	Detail	Notes
Port DataRequest	Version: 1.0	
Port ReadOnlyQueries	Version: 1.0	

**HumanData**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** *Created on 3/6/2014. Last modified on 3/6/2014.*  
**GUID:** {F027F137-B4F7-4053-BB3B-EC717A824F0B}

Módulo que se encarga de procesar los datos que aportan los usuarios.

**Custom Properties**

- isIndirectlyInstantiated = True

***Embedded Elements***

Element	Detail	Notes
Port ProcessHumanData	Version: 1.0	
Port SendData	Version: 1.0	

**Persistence**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** Created on 3/6/2014. Last modified on 4/17/2014.  
**GUID:** {DB82B3F5-9B0A-481b-BC13-9C7B675D8F85}

Componente que se comunica con la base de datos de los recursos directamente.

***Custom Properties***

- isIndirectlyInstantiated = True

***Embedded Elements***

Element	Detail	Notes
Port GetResource	Version: 1.0	
Port Persist	Version: 1.0	

**WebService**

**Type:** **Component**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** CoreComponents    **Keywords:**  
**Detail:** Created on 3/6/2014. Last modified on 3/10/2014.  
**GUID:** {C19B9FD1-B5DD-4d15-B895-2454298981C9}

Es el servicio Web que se encargará de comunicar todas las entradas y salidas a este módulo. La tecnología utilizada será WCF de Microsoft.

***Custom Properties***

- isIndirectlyInstantiated = True

***Connections***

Connector	Source	Target	Notes
Dependency	Public	Public	

<b>Connector</b>	<b>Source</b>	<b>Target</b>	<b>Notes</b>
Source -> Destination	WebService	DataAggregation	
<b>Dependency</b> Source -> Destination	Public WebService	Public Consultas	

*Embedded Elements*

<b>Element</b>	<b>Detail</b>	<b>Notes</b>
Port AssignGroup	Version: 1.0	
Port DataRequest	Version: 1.0	
Port InformationRequest	Version: 1.0	
Port Login	Version: 1.0	
Port Logout	Version: 1.0	
Port Register	Version: 1.0	
Port SendData	Version: 1.0	
Port SendInfo	Version: 1.0	

*SessionManager*

**Type:** **Package**  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** BackEnd  
**Detail:** Created on 3/7/2014. Last modified on 3/7/2014  
**GUID:** {71555013-EA42-40a8-8BEE-331C70A47087}

**SessionManager** - (Component diagram)

**Created By:** Raúl Estrada on 3/7/2014  
**Last Modified:** 3/7/2014  
**Version:** 1.0. **Locked:** False  
**GUID:** {29D6337D-852E-4313-912D-F10B714CB1E4}

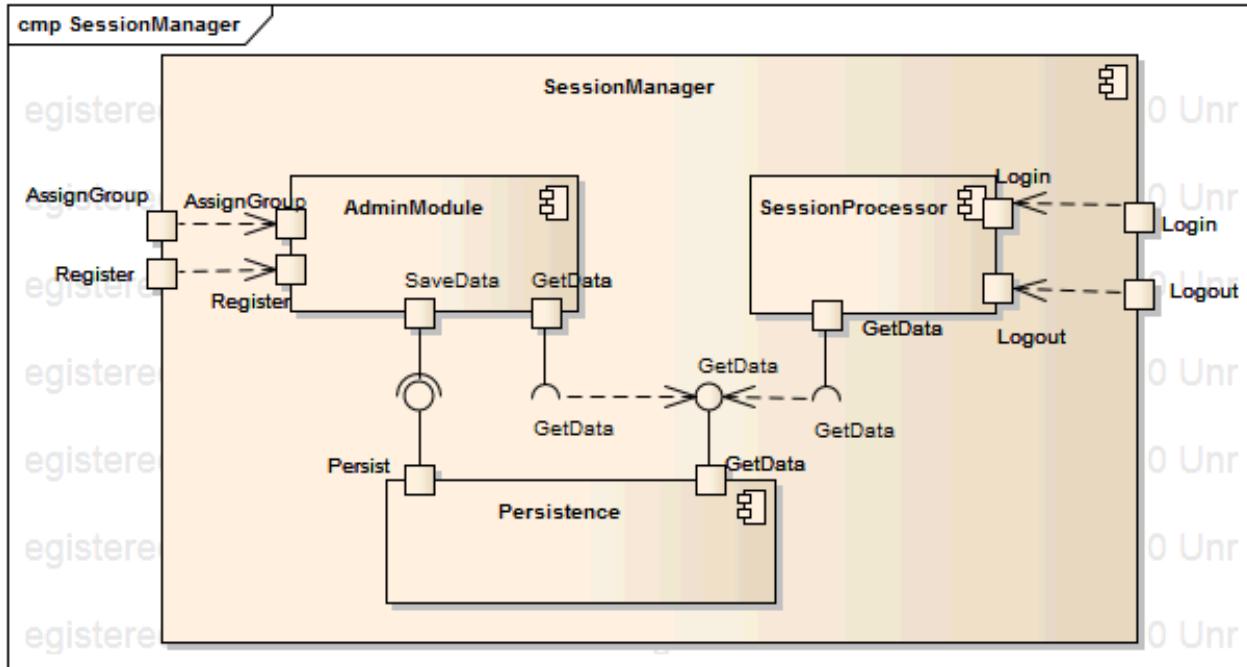


Figure: 7

## SessionManager

Type:	<b>Component</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	SessionManager
Detail:	Keywords: Created on 3/7/2014. Last modified on 3/10/2014.
GUID:	{FFFC899B-1CF9-4d37-91F4-05A629AC695E}

Componente que se encarga de la gestión de sesión de usuario, así como la gestión de los propios usuarios.

### Custom Properties

- `isIndirectlyInstantiated` = True

### Embedded Elements

Element	Detail	Notes
Port AssignGroup	Version: 1.0	
Port Login	Version: 1.0	
Port Logout	Version: 1.0	
Port Register	Version: 1.0	

## AdminModule

<i>Type:</i>	<b>Component</b>
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	SessionManager
<i>Detail:</i>	<i>Created on 3/7/2014. Last modified on 3/7/2014.</i>
<i>GUID:</i>	{65CF88E9-E41D-4873-AE04-2F6B011C15BC}

El módulo de administración que permite, con privilegios de administración, gestionar usuarios y grupos.

#### Custom Properties

- isIndirectlyInstantiated = True

#### *Embedded Elements*

Element	Detail	Notes
Port AssignGroup	Version: 1.0	
Port GetData	Version: 1.0	
Port Register	Version: 1.0	
Port SaveData	Version: 1.0	

## Persistence

<i>Type:</i>	<b>Component</b>
<i>Status:</i>	Proposed. Version 1.0. Phase 1.0.
<i>Package:</i>	SessionManager
<i>Detail:</i>	<i>Created on 3/7/2014. Last modified on 3/7/2014.</i>
<i>GUID:</i>	{FC290938-A9B8-4cdd-A0C9-20964C66FD26}

Componente que accede a la base de datos con la información de los usuarios y grupos.

#### Custom Properties

- isIndirectlyInstantiated = True

#### *Embedded Elements*

Element	Detail	Notes
Port GetData	Version: 1.0	
Port Persist	Version: 1.0	

## SessionProcessor

<i>Type:</i>	<b>Component</b>
--------------	------------------

*Status:* Proposed. Version 1.0. Phase 1.0.  
*Package:* SessionManager *Keywords:*  
*Detail:* Created on 3/7/2014. Last modified on 3/7/2014.  
*GUID:* {F89C5B71-8DF6-42a9-BD96-4C8EA9C2A6FB}

Componente que se encarga de la gestión de sesiones

#### Custom Properties

- isIndirectlyInstantiated = True

#### Embedded Elements

Element	Detail	Notes
Port GetData	Version: 1.0	
Port Login	Version: 1.0	
Port Logout	Version: 1.0	

## FrontEnd

*Type:* **Package**  
*Status:* Proposed. Version 1.0. Phase 1.0.  
*Package:* Component Model  
*Detail:* Created on 3/6/2014. Last modified on 3/7/2014  
*GUID:* {A2FDF707-7D2B-4dec-A182-68B8240DD563}  
Muestra los principales componentes del portal web.

#### WebPortalComponents - (Component diagram)

*Created By:* Raúl Estrada on 3/6/2014  
*Last Modified:* 3/7/2014  
*Version:* 1.0. *Locked:* False  
*GUID:* {87CADC92-093B-460c-B27F-B812B7790950}

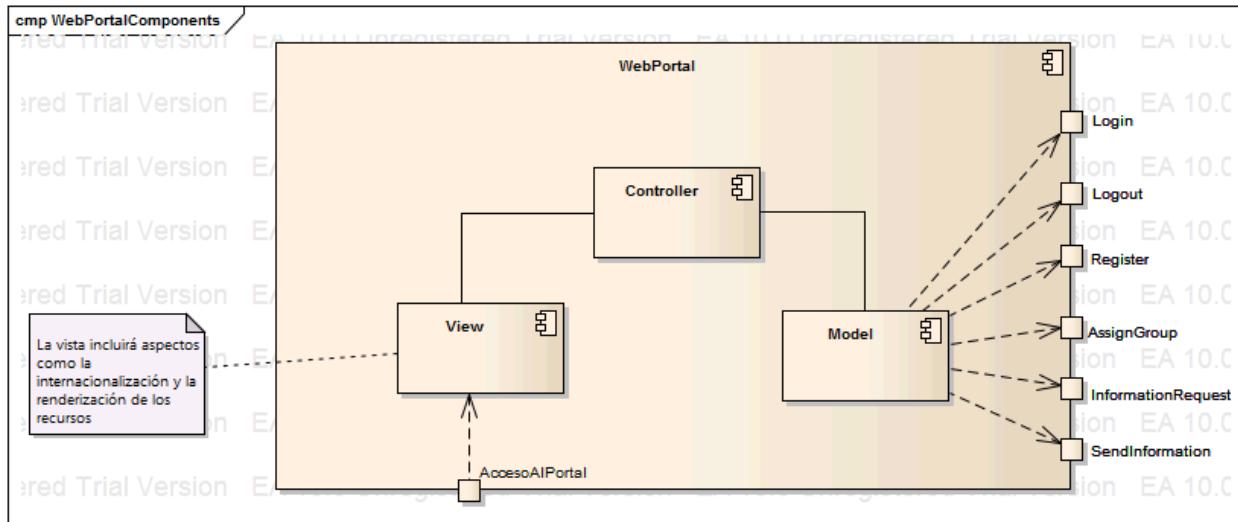


Figure: 8

## WebPortal

Type:	<b>Component</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	FrontEnd
Detail:	<i>Keywords:</i> Created on 3/7/2014. Last modified on 3/7/2014.
GUID:	{144E923F-FF9E-48fd-9473-EE1725902B63}

Es el FrontEnd del sistema. Ofrecerá la página web y usa el patrón MVC.

### Custom Properties

- isIndirectlyInstantiated = True

### Embedded Elements

Element	Detail	Notes
Port AccesoAlPortal	Version: 1.0	
Port AssignGroup	Version: 1.0	
Port InformationRequest	Version: 1.0	
Port Login	Version: 1.0	
Port Logout	Version: 1.0	
Port Register	Version: 1.0	
Port SendInformation	Version: 1.0	

## Controller

Type:	<b>Component</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	FrontEnd
Detail:	<i>Created on 3/7/2014. Last modified on 3/7/2014.</i>
GUID:	{38A03825-1CDA-451d-B214-C461BA7F70A5}

Es el módulo que gestiona o administra la navegabilidad, así como de instanciar y llamar a elementos del modelo para obtener resultados de la lógica de negocio.

### Custom Properties

- isIndirectlyInstantiated = True

## Connections

Connector	Source	Target	Notes
<b>Association</b> Unspecified	Public Controller	Public Model	
<b>Association</b> Unspecified	Public Controller	Public View	

## Model

Type:	<b>Component</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	FrontEnd
Detail:	<i>Created on 3/7/2014. Last modified on 3/7/2014.</i>
GUID:	{946727F2-6373-4fe8-8E1D-61FDAA3193F3}

Componente que se encarga de la lógica de negocio y el acceso a datos.

### Custom Properties

- isIndirectlyInstantiated = True

## Connections

Connector	Source	Target	Notes
<b>Association</b> Unspecified	Public Controller	Public Model	
<b>Dependency</b> Source -> Destination	Public Model	Public Login	
<b>Dependency</b> Source -> Destination	Public Model	Public Logout	

Connector	Source	Target	Notes
<b>Dependency</b> Source -> Destination	Public Model	Public Register	
<b>Dependency</b> Source -> Destination	Public Model	Public AssignGroup	
<b>Dependency</b> Source -> Destination	Public Model	Public InformationRequest	
<b>Dependency</b> Source -> Destination	Public Model	Public SendInformation	

## View

**Type:** Component  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** FrontEnd    **Keywords:**  
**Detail:** Created on 3/7/2014. Last modified on 3/7/2014.  
**GUID:** {5D906AA2-4344-499a-AB32-4951C3F957B0}

Componente que se encarga de la representación en pantalla de los resultados obtenidos a partir de la petición del usuario.

### Custom Properties

- isIndirectlyInstantiated = True

## Connections

Connector	Source	Target	Notes
<b>Association</b> Unspecified	Public Controller	Public View	
<b>NoteLink</b> Source -> Destination	Public <anonymous>	Public View	
<b>Dependency</b> Source -> Destination	Public AccesoAlPortal	Public View	

## Deployment Model

**Type:** Package  
**Status:** Proposed. Version . Phase 1.0.  
**Package:** Model  
**Detail:** Created on 3/6/2014. Last modified on 3/6/2014  
**GUID:** {033EB5CB-291E-41b5-A613-DBCD0CC6C3C5}

**Deployment Model - (Deployment diagram)**

*Created By:* Universidad on 11/19/2005

*Last Modified:* 3/10/2014

*Version:* 1.0. *Locked:* False

*GUID:* {4B46B837-5B7B-4966-9A3F-268578D01548}

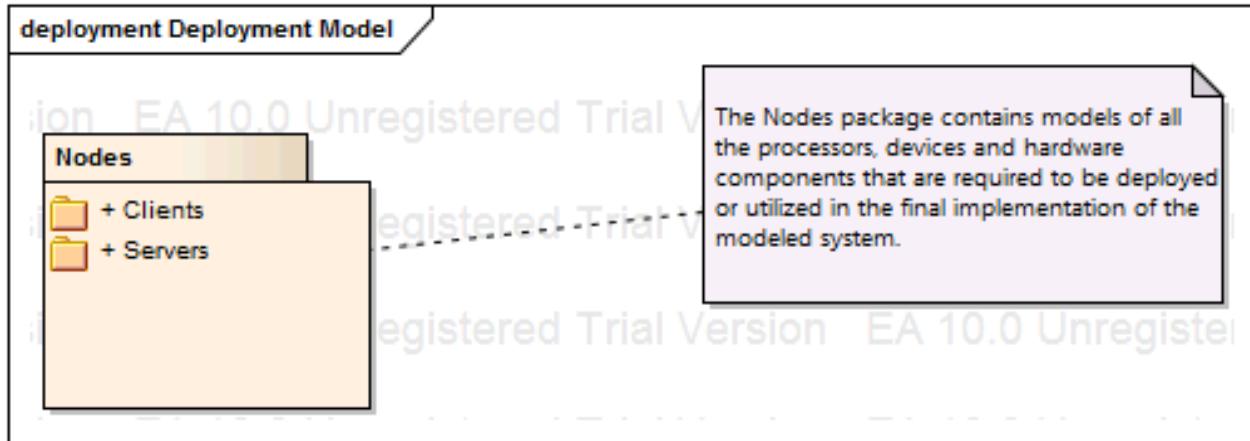


Figure: 9

## Nodes

*Type:* Package

*Status:* Proposed. Version 1.0. Phase 1.0.

*Package:* Deployment Model

*Detail:* Created on 1/5/2006. Last modified on 1/5/2006

*GUID:* {8EE3976D-27DF-4ccc-8031-C9BF861492DF}

**Nodes - (Deployment diagram)**

*Created By:* Raúl Estrada on 1/11/2006

*Last Modified:* 3/10/2014

*Version:* 1.0. *Locked:* False

*GUID:* {EA4D4FF3-E537-4c5d-952C-45248FA3DA48}

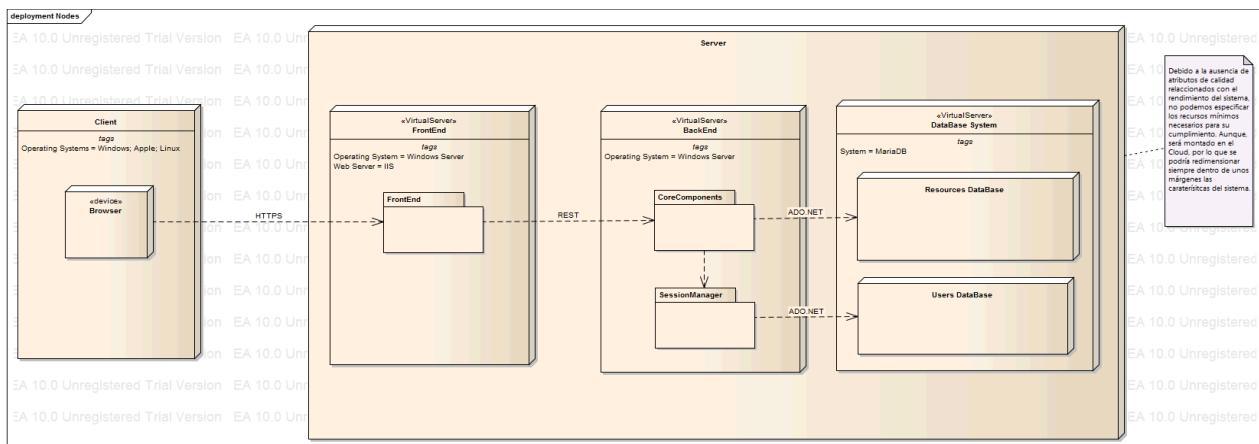


Figure: 10

## Clients

Type:	<u>Package</u>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Nodes
Detail:	<i>Created on 11/20/2005. Last modified on 1/5/2006</i>
GUID:	{2A604DE9-12CA-4f82-8E11-15BAB643BD2B}

## Client

Type:	<u>Node</u>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Clients <i>Keywords:</i>
Detail:	<i>Created on 3/7/2014. Last modified on 3/10/2014.</i>
GUID:	{558B6C9D-01F9-443f-BCA2-E67874BF99D7}

## Custom Properties

- `isExecutionEnvironment = False`

## Tagged Values

- Operating Systems = Windows; Apple; Linux.

## Browser

Type:	<b>Device</b>
Status:	Proposed. Version 1.0. Phase 1.0.
Package:	Clients <b>Keywords:</b>
Detail:	<i>Created on 3/7/2014. Last modified on 3/7/2014.</i>
GUID:	{E4B8F63F-B9A8-4d98-9ECA-0DA3744060A8}

**Custom Properties**

- isExecutionEnvironment = False

**Connections**

Connector	Source	Target	Notes
<b>Dependency</b> HTTPS Source -> Destination	Public Browser	Public FrontEnd	

**Servers**

**Type:** Package  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Nodes  
**Detail:** *Created on 3/10/2014. Last modified on 3/10/2014*  
**GUID:** {4E3FDDBD0-06F1-4fb2-ABB1-BC8F5364D7EA}

**Server**

**Type:** Node  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Servers Keywords:  
**Detail:** *Created on 3/10/2014. Last modified on 3/10/2014.*  
**GUID:** {ADE78A5D-4AE7-4050-B2AC-87432A19D7DD}

**Custom Properties**

- isExecutionEnvironment = False

**Connections**

Connector	Source	Target	Notes
<b>NoteLink</b> Source -> Destination	Public <anonymous>	Public Server	

**DataBaseSystems**

**Type:** Device  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Servers Keywords:

*Detail:* Created on 3/10/2014. Last modified on 3/10/2014.  
*GUID:* {D9D88613-D6D5-4767-B218-65C4117BBDCA}

### Custom Properties

- isExecutionEnvironment = False

## BackEnd

*Type:* **Node**  
*Status:* Proposed. Version 1.0. Phase 1.0.  
*Package:* Servers *Keywords:*  
*Detail:* Created on 3/7/2014. Last modified on 3/10/2014.  
*GUID:* {2DA5768C-8776-45d4-AA16-74CBA5B09E0F}

### Custom Properties

- isExecutionEnvironment = False

### Tagged Values

- Operating System = Windows Server.

## DataBase System

*Type:* **Node**  
*Status:* Proposed. Version 1.0. Phase 1.0.  
*Package:* Servers *Keywords:*  
*Detail:* Created on 3/10/2014. Last modified on 3/10/2014.  
*GUID:* {7185F93F-EFDF-4762-ACDA-CCA0C5B8DDDB}

### Custom Properties

- isExecutionEnvironment = False

### Tagged Values

- System = MariaDB.

## FrontEnd

**Type:** [Node](#)  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Servers **Keywords:**  
**Detail:** *Created on 3/7/2014. Last modified on 3/10/2014.*  
**GUID:** {1270F5E5-C9CF-486e-B4B3-C3EBFF072962}

### Custom Properties

- isExecutionEnvironment = False

### Tagged Values

- Operating System = Windows Server.
- Web Server = IIS.

## Resources DataBase

**Type:** [Node](#)  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Servers **Keywords:**  
**Detail:** *Created on 3/7/2014. Last modified on 3/10/2014.*  
**GUID:** {72787713-7228-427b-9376-038CEBC72498}

### Custom Properties

- isExecutionEnvironment = False

### Connections

Connector	Source	Target	Notes
<b>Dependency</b> ADO.NET Source -> Destination	Public CoreComponents	Public Resources DataBase	

## Users DataBase

**Type:** [Node](#)  
**Status:** Proposed. Version 1.0. Phase 1.0.  
**Package:** Servers **Keywords:**  
**Detail:** *Created on 3/7/2014. Last modified on 3/10/2014.*

**GUID:** {755BFDEA-C6B4-493a-8CC4-164F434B1149}

**Custom Properties**

- isExecutionEnvironment = False

**Connections**

Connector	Source	Target	Notes
<b>Dependency</b> ADO.NET Source -> Destination	Public SessionManager	Public Users DataBase	