Neo Balompié (NBP)

Diagrama de clases

Author: Author

Revision: 0.2

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| No Magic |  |
| One Allen Center, 700 Central Expressway South, Suite 110 Allen, Texas 75013 USA | April 19, 2020 |

**Approval**

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# **Introduction**

## **Purpose**

This document provides class, interface, and enumeration specification. The specification provides the details of the types being modeled within the system

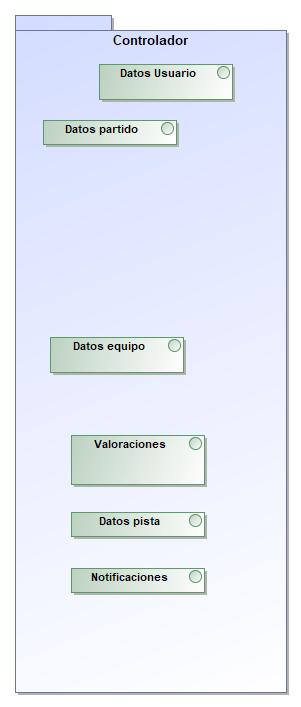
## **Scope**

This document is intended to define class specification for the {System Name}.

## **Overview**

This document provides a list of all packages with a summary for each. Each package has a section that contains a list of its classes, interfaces and enumeration type, with a summary for each. Class and Interface contains description, summary tables, detailed member descriptions, and relation table.

# **Package Controlador**



1. Controlador

|  |  |
| --- | --- |
| **Name** | Controlador |
| **Qualified Name** | Controlador |

## **Interface** **Datos equipo**



1. Datos equipo

|  |  |
| --- | --- |
| **Name** | Datos equipo |
| **Qualified Name** | Controlador::Datos equipo |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Crear Equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Eliminar Equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Modificar Equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Crear Equipo |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Modificar Equipo |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Equipo |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Eliminar Equipo |

## **Interface** **Datos partido**

1235818509.jpg

1. Datos partido

|  |  |
| --- | --- |
| **Name** | Datos partido |
| **Qualified Name** | Controlador::Datos partido |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Crear Partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Unirse a Partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Unir a un no Registrado |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Unirse con Equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Salirse de Partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Eliminar Partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Unir a un no Registrado |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Salirse de Partido |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Eliminar Partido |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Unirse con Equipo |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Unirse a Partido |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Crear Partido |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Partido |

## **Interface** **Datos pista**

177221073.jpg

1. Datos pista

|  |  |
| --- | --- |
| **Name** | Datos pista |
| **Qualified Name** | Controlador::Datos pista |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Añadir Pista |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Eliminar Pista |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Pista |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Pista |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Añadir Pista |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Eliminar Pista |

## **Interface** **Datos Usuario**



1. Datos Usuario

|  |  |
| --- | --- |
| **Name** | Datos Usuario |
| **Qualified Name** | Controlador::Datos Usuario |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Registrarse |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Iniciar Sesion |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Usuario |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Iniciar Sesion |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Usuario |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Registrarse |

## **Interface** **Notificaciones**

-69774903.jpg

1. Notificaciones

|  |  |
| --- | --- |
| **Name** | Notificaciones |
| **Qualified Name** | Controlador::Notificaciones |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Mandar Notificaciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Notificación |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Mandar Notificaciones |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Notificación |

## **Interface** **Valoraciones**



1. Valoraciones

|  |  |
| --- | --- |
| **Name** | Valoraciones |
| **Qualified Name** | Controlador::Valoraciones |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Valorar Usuario |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Valorar Pistas |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

|  |  |
| --- | --- |
| **Type** | Valoraciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

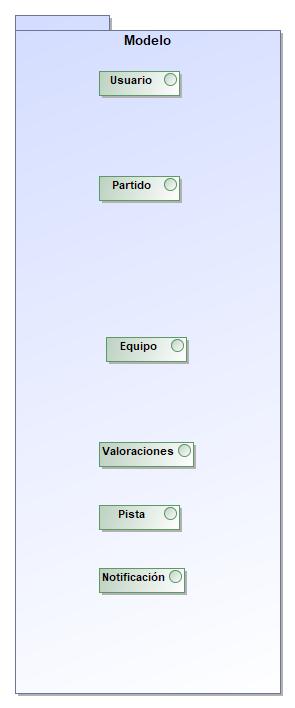
#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valorar Usuario |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valorar Pistas |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoraciones |

# **Package Modelo**



1. Modelo

|  |  |
| --- | --- |
| **Name** | Modelo |
| **Qualified Name** | Modelo |

## **Class** **Administrador**



1. Administrador

|  |  |
| --- | --- |
| **Name** | Administrador |
| **Qualified Name** | Modelo::Administrador |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** | * [Usuario](#_4b60982d4efce049ad4b2de1e8045451) |
| **Realized Interface** |  |

### **Attribute Detail**

#### Gestiona

|  |  |
| --- | --- |
| **Type** | Pista |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | \* |

### **Operation Detail**

#### añadirpista

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### eliminarpista

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in p : Pista |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** | Gestiona |
| **Related Element** | * Pista |

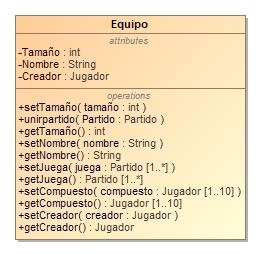
#### Generalization

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Usuario |

## **Class** **Date**

|  |  |
| --- | --- |
| **Name** | Date |
| **Qualified Name** | Modelo::Date |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

## **Class** **Equipo**



1. Equipo

|  |  |
| --- | --- |
| **Name** | Equipo |
| **Qualified Name** | Modelo::Equipo |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

### **Attribute Detail**

#### Compuesto

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1..10 |

#### Creador

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Juega

|  |  |
| --- | --- |
| **Type** | Partido |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1..\* |

#### Nombre

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Tamaño

|  |  |
| --- | --- |
| **Type** | int |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

### **Operation Detail**

#### getCompuesto

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getCreador

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getJuega

|  |  |
| --- | --- |
| **Type** | Partido |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getNombre

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getTamaño

|  |  |
| --- | --- |
| **Type** | int |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### setCompuesto

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in compuesto : Jugador [1..10] |

#### setCreador

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in creador : Jugador |

#### setJuega

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in juega : Partido [1..\*] |

#### setNombre

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in nombre : String |

#### setTamaño

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in tamaño : int |

#### unirpartido

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in Partido : Partido |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Jugador |

|  |  |
| --- | --- |
| **Name** | Partido |
| **Related Element** | * Partido |

## **Class** **Jugador**



1. Jugador

|  |  |
| --- | --- |
| **Name** | Jugador |
| **Qualified Name** | Modelo::Jugador |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** | * [Usuario](#_4b60982d4efce049ad4b2de1e8045451) |
| **Realized Interface** |  |

### **Attribute Detail**

#### Apellidos

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Fecha de nacimiento

|  |  |
| --- | --- |
| **Type** | Date |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Juega

|  |  |
| --- | --- |
| **Type** | Partido |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1..\* |

#### Nick

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Nombre

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Pertenece

|  |  |
| --- | --- |
| **Type** | Equipo |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1 |

#### Posición fav.

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Recibe

|  |  |
| --- | --- |
| **Type** | Notificacion |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1 |

#### Tiene

|  |  |
| --- | --- |
| **Type** | Valoración Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | \* |

#### Valorar

|  |  |
| --- | --- |
| **Type** | Valoración |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | \* |

### **Operation Detail**

#### aceptarjugador

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in p : Partido |

#### crearpartido

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### eliminarequipo

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in e : Equipo |

#### getApellidos

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getFecha de nacimiento

|  |  |
| --- | --- |
| **Type** | Date |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getJuega

|  |  |
| --- | --- |
| **Type** | Partido |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getNick

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getNombre

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getPertenece

|  |  |
| --- | --- |
| **Type** | Equipo |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getPosición fav.

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getRecibe

|  |  |
| --- | --- |
| **Type** | Notificacion |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getTiene

|  |  |
| --- | --- |
| **Type** | Valoración Jugador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getValorar

|  |  |
| --- | --- |
| **Type** | Valoración |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### salirsedeunpartido

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in p : Partido |

#### setApellidos

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in apellidos : String |

#### setFecha de nacimiento

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in fecha de nacimiento : Date |

#### setJuega

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in juega : Partido [1..\*] |

#### setNick

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in nick : String |

#### setNombre

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in nombre : String |

#### setPertenece

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in pertenece : Equipo [1] |

#### setPosición fav.

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in posición fav. : String |

#### setRecibe

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in recibe : Notificacion [1] |

#### setTiene

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in tiene : Valoración Jugador [\*] |

#### setValorar

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in valorar : Valoración [\*] |

#### uniranoregistrado

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in p : Partido |

#### unirpartido

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in p : Partido |

#### valorarjugador

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in j : Jugador |

#### valorarpista

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in p : Pista |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración Jugador |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Notificacion |

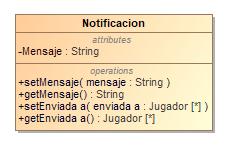
|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Equipo |

|  |  |
| --- | --- |
| **Name** | Partido1 |
| **Related Element** | * Partido |

#### Generalization

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Usuario |

## **Class** **Notificacion**



1. Notificacion

|  |  |
| --- | --- |
| **Name** | Notificacion |
| **Qualified Name** | Modelo::Notificacion |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

### **Attribute Detail**

#### Enviada a

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | \* |

#### Mensaje

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

### **Operation Detail**

#### getEnviada a

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getMensaje

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### setEnviada a

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in enviada a : Jugador [\*] |

#### setMensaje

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in mensaje : String |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Jugador |

## **Class** **Partido**



1. Partido

|  |  |
| --- | --- |
| **Name** | Partido |
| **Qualified Name** | Modelo::Partido |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Pista |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1 |

#### Equipo

|  |  |
| --- | --- |
| **Type** | Equipo |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1..\* |

#### Fecha

|  |  |
| --- | --- |
| **Type** | Date |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Hora

|  |  |
| --- | --- |
| **Type** | Date |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Jugador

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1..10 |

### **Operation Detail**

#### get

|  |  |
| --- | --- |
| **Type** | Pista |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getEquipo

|  |  |
| --- | --- |
| **Type** | Equipo |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getFecha

|  |  |
| --- | --- |
| **Type** | Date |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getHora

|  |  |
| --- | --- |
| **Type** | Date |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getJugador

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### set

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in : Pista [1] |

#### setEquipo

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in equipo : Equipo [1..\*] |

#### setFecha

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in fecha : Date |

#### setHora

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in hora : Date |

#### setJugador

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in jugador : Jugador [1..10] |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Pista |

|  |  |
| --- | --- |
| **Name** | Partido |
| **Related Element** | * Equipo |

|  |  |
| --- | --- |
| **Name** | Partido1 |
| **Related Element** | * Jugador |

## **Class** **Pista**



1. Pista

|  |  |
| --- | --- |
| **Name** | Pista |
| **Qualified Name** | Modelo::Pista |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Partido |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | \* |

#### Es gestionada

|  |  |
| --- | --- |
| **Type** | Administrador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1..\* |

#### Hora fin

|  |  |
| --- | --- |
| **Type** | Date |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Hora inicio

|  |  |
| --- | --- |
| **Type** | Date |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Nombre

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Tiene

|  |  |
| --- | --- |
| **Type** | Valoración Pista |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | \* |

#### Ubicación

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

### **Operation Detail**

#### get

|  |  |
| --- | --- |
| **Type** | Partido |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getEs gestionada

|  |  |
| --- | --- |
| **Type** | Administrador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getHora fin

|  |  |
| --- | --- |
| **Type** | Date |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getHora inicio

|  |  |
| --- | --- |
| **Type** | Date |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getNombre

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getTiene

|  |  |
| --- | --- |
| **Type** | Valoración Pista |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getUbicación

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### set

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in : Partido [\*] |

#### setEs gestionada

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in es gestionada : Administrador [1..\*] |

#### setHora fin

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in hora fin : Date |

#### setHora inicio

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in hora inicio : Date |

#### setNombre

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in nombre : String |

#### setTiene

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in tiene : Valoración Pista [\*] |

#### setUbicación

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in ubicación : String |

### **Relation Detail**

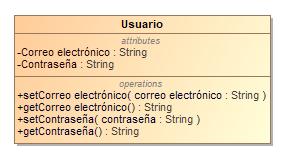
#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración Pista |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Partido |

|  |  |
| --- | --- |
| **Name** | Gestiona |
| **Related Element** | * Administrador |

## **Class** **Usuario**



1. Usuario

|  |  |
| --- | --- |
| **Name** | Usuario |
| **Qualified Name** | Modelo::Usuario |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

### **Attribute Detail**

#### Contraseña

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Correo electrónico

|  |  |
| --- | --- |
| **Type** | String |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

### **Operation Detail**

#### getContraseña

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getCorreo electrónico

|  |  |
| --- | --- |
| **Type** | String |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### setContraseña

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in contraseña : String |

#### setCorreo electrónico

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in correo electrónico : String |

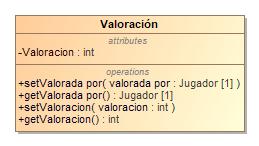
### **Relation Detail**

#### Generalization

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Jugador |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Administrador |

## **Class** **Valoración**



1. Valoración

|  |  |
| --- | --- |
| **Name** | Valoración |
| **Qualified Name** | Modelo::Valoración |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** |  |
| **Realized Interface** |  |

### **Attribute Detail**

#### Valoracion

|  |  |
| --- | --- |
| **Type** | int |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** |  |

#### Valorada por

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1 |

### **Operation Detail**

#### getValoracion

|  |  |
| --- | --- |
| **Type** | int |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### getValorada por

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** |  |

#### setValoracion

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in valoracion : int |

#### setValorada por

|  |  |
| --- | --- |
| **Type** |  |
| **Visibility** | public |
| **Is Abstract** | false |
| **Parameter** | * in valorada por : Jugador [1] |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Jugador |

#### Generalization

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración Pista |

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración Jugador |

## **Class** **Valoración Jugador**

-2050261044.jpg

1. Valoración Jugador

|  |  |
| --- | --- |
| **Name** | Valoración Jugador |
| **Qualified Name** | Modelo::Valoración Jugador |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** | * [Valoración](#_87490824ae9f76b9d365493cd5dd3853) |
| **Realized Interface** |  |

### **Attribute Detail**

#### Asociada

|  |  |
| --- | --- |
| **Type** | Jugador |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1 |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Jugador |

#### Generalization

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración |

## **Class** **Valoración Pista**

659964937.jpg

1. Valoración Pista

|  |  |
| --- | --- |
| **Name** | Valoración Pista |
| **Qualified Name** | Modelo::Valoración Pista |
| **Visibility** | public |
| **Abstract** | false |
| **Base Classifier** | * [Valoración](#_87490824ae9f76b9d365493cd5dd3853) |
| **Realized Interface** |  |

### **Attribute Detail**

#### Asociada

|  |  |
| --- | --- |
| **Type** | Pista |
| **Default Value** |  |
| **Visibility** | private |
| **Multiplicity** | 1 |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Pista |

#### Generalization

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoración |

## **Interface** **Equipo**

2103253351.jpg

1. Equipo

|  |  |
| --- | --- |
| **Name** | Equipo |
| **Qualified Name** | Modelo::Equipo |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos equipo |

## **Interface** **Notificación**

-322622476.jpg

1. Notificación

|  |  |
| --- | --- |
| **Name** | Notificación |
| **Qualified Name** | Modelo::Notificación |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Notificaciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Notificaciones |

## **Interface** **Partido**

-877734611.jpg

1. Partido

|  |  |
| --- | --- |
| **Name** | Partido |
| **Qualified Name** | Modelo::Partido |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Pista**

1380281545.jpg

1. Pista

|  |  |
| --- | --- |
| **Name** | Pista |
| **Qualified Name** | Modelo::Pista |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos pista |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos pista |

## **Interface** **Usuario**

-1987266729.jpg

1. Usuario

|  |  |
| --- | --- |
| **Name** | Usuario |
| **Qualified Name** | Modelo::Usuario |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos Usuario |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos Usuario |

## **Interface** **Valoraciones**

-1481351569.jpg

1. Valoraciones

|  |  |
| --- | --- |
| **Name** | Valoraciones |
| **Qualified Name** | Modelo::Valoraciones |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Valoraciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoraciones |

# **Package Vista**



1. Vista

|  |  |
| --- | --- |
| **Name** | Vista |
| **Qualified Name** | Vista |

## **Interface** **Añadir Pista**

-1067780203.jpg

1. Añadir Pista

|  |  |
| --- | --- |
| **Name** | Añadir Pista |
| **Qualified Name** | Vista::Añadir Pista |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos pista |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos pista |

## **Interface** **Crear Equipo**

-1122057698.jpg

1. Crear Equipo

|  |  |
| --- | --- |
| **Name** | Crear Equipo |
| **Qualified Name** | Vista::Crear Equipo |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos equipo |

## **Interface** **Crear Partido**

-629730672.jpg

1. Crear Partido

|  |  |
| --- | --- |
| **Name** | Crear Partido |
| **Qualified Name** | Vista::Crear Partido |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Eliminar Equipo**

952412162.jpg

1. Eliminar Equipo

|  |  |
| --- | --- |
| **Name** | Eliminar Equipo |
| **Qualified Name** | Vista::Eliminar Equipo |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos equipo |

## **Interface** **Eliminar Partido**

1323263239.jpg

1. Eliminar Partido

|  |  |
| --- | --- |
| **Name** | Eliminar Partido |
| **Qualified Name** | Vista::Eliminar Partido |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Eliminar Pista**

331817926.jpg

1. Eliminar Pista

|  |  |
| --- | --- |
| **Name** | Eliminar Pista |
| **Qualified Name** | Vista::Eliminar Pista |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos pista |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos pista |

## **Interface** **Iniciar Sesion**

-1551127276.jpg

1. Iniciar Sesion

|  |  |
| --- | --- |
| **Name** | Iniciar Sesion |
| **Qualified Name** | Vista::Iniciar Sesion |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos Usuario |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos Usuario |

## **Interface** **Mandar Notificaciones**

|  |  |
| --- | --- |
| **Name** | Mandar Notificaciones |
| **Qualified Name** | Vista::Mandar Notificaciones |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Notificaciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Notificaciones |

## **Interface** **Modificar Equipo**

1373566052.jpg

1. Modificar Equipo

|  |  |
| --- | --- |
| **Name** | Modificar Equipo |
| **Qualified Name** | Vista::Modificar Equipo |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos equipo |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos equipo |

## **Interface** **Registrarse**

-1438177862.jpg

1. Registrarse

|  |  |
| --- | --- |
| **Name** | Registrarse |
| **Qualified Name** | Vista::Registrarse |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos Usuario |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos Usuario |

## **Interface** **Salirse de Partido**

2083933971.jpg

1. Salirse de Partido

|  |  |
| --- | --- |
| **Name** | Salirse de Partido |
| **Qualified Name** | Vista::Salirse de Partido |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Unir a un no Registrado**

-1953297277.jpg

1. Unir a un no Registrado

|  |  |
| --- | --- |
| **Name** | Unir a un no Registrado |
| **Qualified Name** | Vista::Unir a un no Registrado |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Unirse a Partido**

-1004366707.jpg

1. Unirse a Partido

|  |  |
| --- | --- |
| **Name** | Unirse a Partido |
| **Qualified Name** | Vista::Unirse a Partido |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Unirse con Equipo**

1189435873.jpg

1. Unirse con Equipo

|  |  |
| --- | --- |
| **Name** | Unirse con Equipo |
| **Qualified Name** | Vista::Unirse con Equipo |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Datos partido |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Datos partido |

## **Interface** **Valorar Pistas**

1243520658.jpg

1. Valorar Pistas

|  |  |
| --- | --- |
| **Name** | Valorar Pistas |
| **Qualified Name** | Vista::Valorar Pistas |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Valoraciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoraciones |

## **Interface** **Valorar Usuario**

-786674423.jpg

1. Valorar Usuario

|  |  |
| --- | --- |
| **Name** | Valorar Usuario |
| **Qualified Name** | Vista::Valorar Usuario |
| **Visibility** | public |
| **Base Classifier** |  |

### **Attribute Detail**

|  |  |
| --- | --- |
| **Type** | Valoraciones |
| **Default Value** |  |
| **Visibility** | public |
| **Multiplicity** |  |

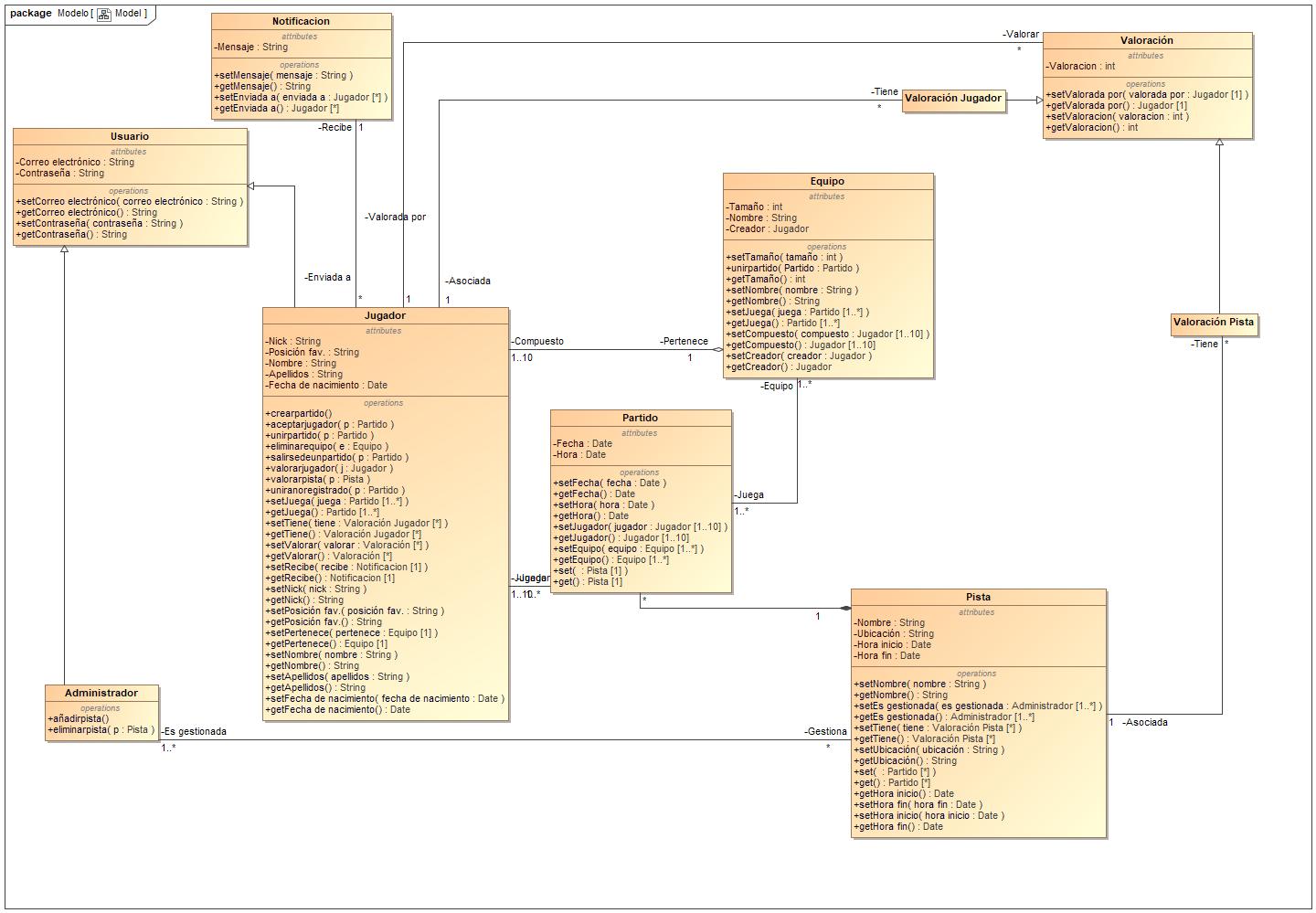
### **Relation Detail**

#### Association

|  |  |
| --- | --- |
| **Name** |  |
| **Related Element** | * Valoraciones |

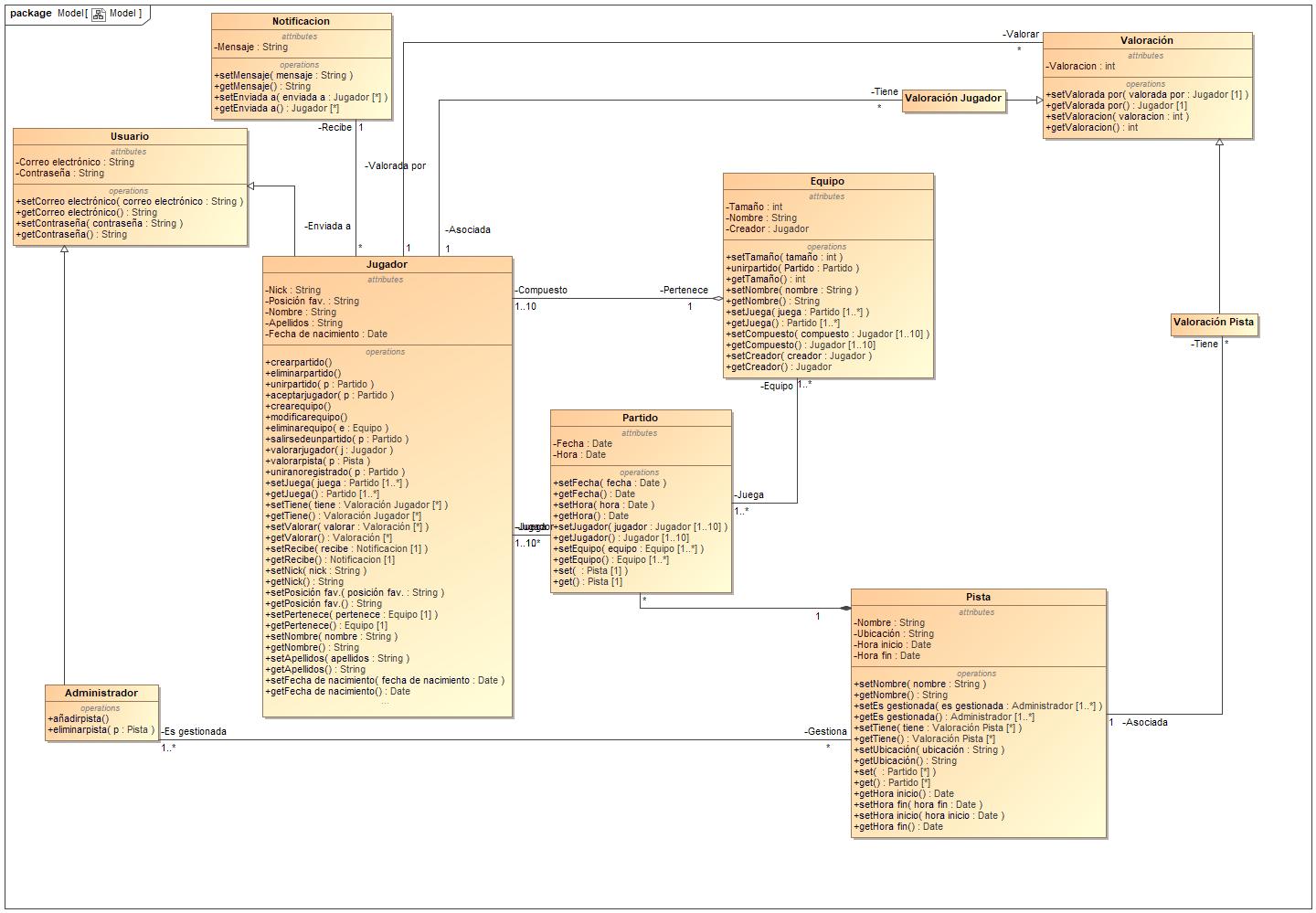
# **Appendix A: Diagram**

## **Model**



1. Model

## **Model**



1. Model

**Clase Usuario**

La clase Usuario contiene información sobre un determinado usuario: su nick, su correo electrónico y su contraseña.

**Clase Jugador**

La clase Jugador hereda de la clase Usuario, por lo que contiene información sobre un determinado usuario, además de su nombre, apellidos y fecha de nacimiento. También posee información sobre su posición favorita.

Este jugador puede tanto crear partidos y modificarlos como unirse a aquellos que ya estén creados. Además, podrá crear equipos con los cuales podrá unirse a un partido. Otra opción será la de unirse al partido con gente que no esté registrada.

Asimismo tendrá la opción de salirse del partido o eliminarlo (si es anfitrión) y de modificar y eliminar sus equipos. Este anfitrión podrá aceptar o rechazar a todo aquel que quiera unirse al partido.

Otra opción será la de valorar pistas y jugadores con los que ya haya jugado.

**Clase Equipo**

La clase Equipo contiene información de un determinado equipo como el tamaño del equipo, el nombre del mismo y el nombre del capitán de equipo(creador).

El equipo se podrá unir a un partido con alguno o todos sus miembros.

**Clase Partido**

La clase partido proporciona la fecha y hora en la que se realizará un partido en específico, se puede jugar un partido con equipo, solo o con jugadores no registrados, partido está relacionado con pista ya que estará asignado a una.

**Clase Administrador**

La clase Administrador hereda de la clase Usuario, por lo que contiene información sobre un determinado usuario, el administrador es el que gestiona las pistas.

**Clase Pista**

La clase Pista contiene información sobre una determinada pista, tal como su nombre, su ubicación y la hora de inicio y fin en la que se pueden realizar los partidos. Las pistas son modificadas por el administrador ya sea para eliminarlas, añadirlas o cambiar su información, también cuenta con valoraciones dadas por los usuarios.

**Clase Valoración**

Esta clase engloba todas las valoraciones, ya sean de usuario o de pista.

Como atributos tiene un entero Valoración que es la calificación entre 1 y 5 de una pista o usuario.

Relacionada con las clases Pista y Jugador.

**Clase Valoración Usuario**

Esta clase hereda de Valoración y contiene todas las valoraciones que los jugadores hacen de otros usuarios, también jugadores.

No contiene atributos propios, solo los que hereda de su superclase.

**Clase Valoración Pista**

Hereda de Valoración y contiene todas las calificaciones que los usuarios realizan a las pistas en las que han jugado algún partido.

No contiene atributos propios, solo Valoración, heredada de su superclase.

**Clase Notificación**

Esta clase representa las notificaciones que recibe el usuario por parte del sistema.

Tiene como atributos Mensaje, un String, que sería el cuerpo de la notificación.

Está relacionada con Jugador.