Sistema De Informacion

Package in package 'Model'

<div align="right">

Sistema De Informacion
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

</div>

Model diagram

Class diagram in package 'Sistema De Informacion'

<div align="right">

Model
Version 1.0
Luciano created on 13/11/2023. Last modified 15/11/2023
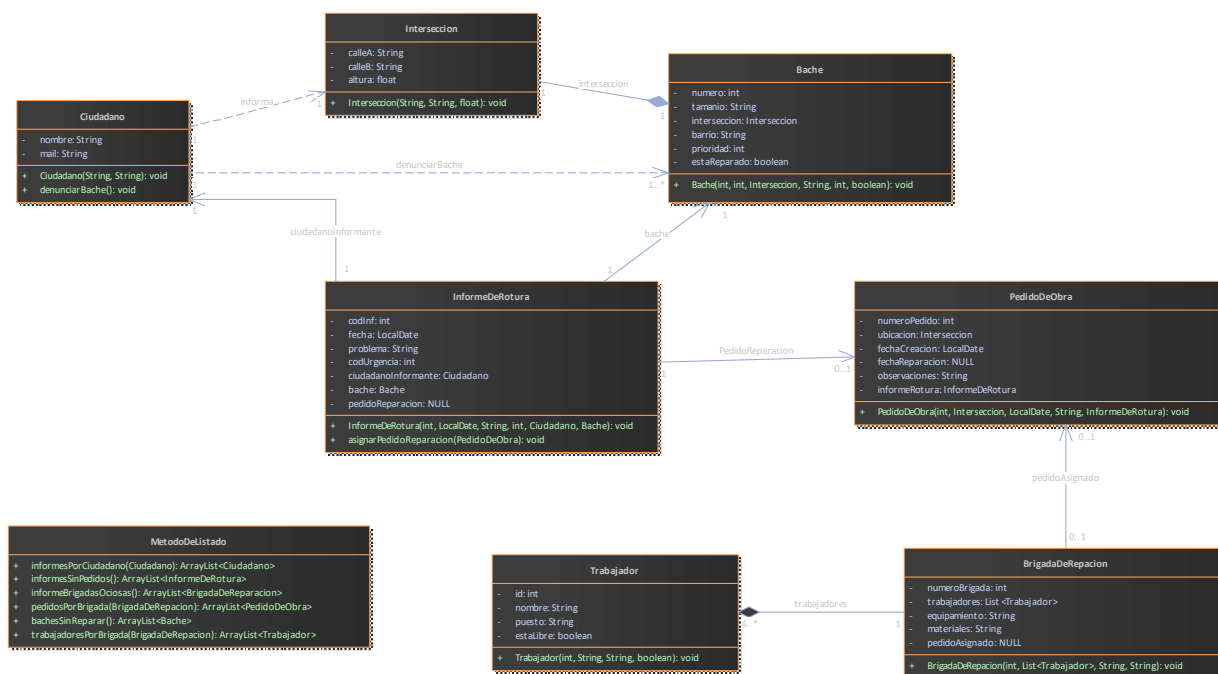
</div>

Figure 1: Model

Bache

Class in package 'Sistema De Informacion'

<div align="right">

Bache
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

</div>

INCOMING STRUCTURAL RELATIONSHIPS
➡ Aggregation from Interseccion to Bache [Name is interseccion. Direction is 'Source -> Destination'.]

CONNECTORS

CONNECTORS

📈 **Dependency** denunciarBache   Source -> Destination
From: Ciudadano : Class, Public
To: Bache : Class, Public

ATTRIBUTES

🔹 numero : int Private

[Is static True. Containment is Not Specified.]

🔹 tamanio : String Private

[Is static True. Containment is Not Specified.]

🔹 interseccion : Interseccion Private

[Is static True. Containment is Not Specified.]

🔹 barrio : String Private

[Is static True. Containment is Not Specified.]

🔹 prioridad : int Private

[Is static True. Containment is Not Specified.]

🔹 estaReparado : boolean Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✏️ Association (direction: Source -> Destination) bache

Source: Public (Class) InformeDeRotura   Target: Public (Class) Bache
    Cardinality: [1]   Cardinality: [1]

OPERATIONS

🔸 Bache (numero : int , tamanio : int , interseccion : Interseccion , barrio : String , prioridad : int , reparado : boolean) : void
Public

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

BrigadaDeRepacion

Class in package 'Sistema De Informacion'

BrigadaDeRepacion
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

← Aggregation from BrigadaDeRepacion to Trabajador

[Name is trabajadores. Direction is 'Source -> Destination'.]

ATTRIBUTES

◆ numeroBrigada : int Private

[Is static True. Containment is Not Specified.]

◆ trabajadores : List <Trabajador> Private

[Is static True. Containment is Not Specified.]

◆ equipamiento : String Private

[Is static True. Containment is Not Specified.]

◆ materiales : String Private

[Is static True. Containment is Not Specified.]

◆ pedidoAsignado : NULL Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Source -> Destination) pedidoAsignado

Source: Public (Class) BrigadaDeRepacion   Target: Public (Class) PedidoDeObra
    Cardinality: [0..1]   Cardinality: [0..1]

OPERATIONS

◆ BrigadaDeRepacion (numeroBrigada : int , trabajadores : List<Trabajador> , equipamiento : String , materiales : String) : void Public

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

Ciudadano

Class in package 'Sistema De Informacion'

Ciudadano
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

CONNECTORS

↗ **Dependency** denunciarBache   Source -> Destination
From: Ciudadano : Class, Public
To: Bache : Class, Public

CONNECTORS

↗ **Dependency** informa   Source -> Destination
From: Ciudadano : Class, Public
To: Interseccion : Class, Public

ATTRIBUTES

◆ nombre : String Private

[Is static True. Containment is Not Specified.]

◆ mail : String Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Destination -> Source) ciudadanoInformante

Source: Public (Class) Ciudadano   Target: Public (Class) InformeDeRotura
   Cardinality: [1]   Cardinality: [1]

OPERATIONS

◆ Ciudadano (nombre : String , mail : String) : void Public
                            [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ denunciarBache () : void Public
                            [Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

InformeDeRotura

Class in package 'Sistema De Informacion'

InformeDeRotura
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

ATTRIBUTES

◆ codInf : int Private

[Is static True. Containment is Not Specified.]

◆ fecha : LocalDate Private

[Is static True. Containment is Not Specified.]

◆ problema : String Private

[Is static True. Containment is Not Specified.]

ATTRIBUTES

◆ codUrgencia : int Private

[Is static True. Containment is Not Specified.]

◆ ciudadanoInformante : Ciudadano Private

[Is static True. Containment is Not Specified.]

◆ bache : Bache Private

[Is static True. Containment is Not Specified.]

◆ pedidoReparacion : NULL Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✎ Association (direction: Source -> Destination) PedidoReparacion

Source: Public (Class) InformeDeRotura   Target: Public (Class) PedidoDeObra
   Cardinality: [1]   Cardinality: [0..1]

✎ Association (direction: Source -> Destination) bache

Source: Public (Class) InformeDeRotura   Target: Public (Class) Bache
   Cardinality: [1]   Cardinality: [1]

✎ Association (direction: Destination -> Source) ciudadanoInformante

Source: Public (Class) Ciudadano   Target: Public (Class) InformeDeRotura
   Cardinality: [1]   Cardinality: [1]

OPERATIONS

◆ InformeDeRotura (codInf : int , fecha : LocalDate , problema : String , codigoUrgencia : int , ciudadanoInformante : Ciudadano , bache : Bache) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

◆ asignarPedidoReparacion (pedidoDeObra : PedidoDeObra) : void Public
[Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False.]

Interseccion

Class in package 'Sistema De Informacion'

Interseccion
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

OUTGOING STRUCTURAL RELATIONSHIPS

OUTGOING STRUCTURAL RELATIONSHIPS

⬅ Aggregation from Interseccion to Bache

[Name is interseccion. Direction is 'Source -> Destination'.]

CONNECTORS

↗ **Dependency** informa   Source -> Destination
From: Ciudadano : Class, Public
To: Interseccion : Class, Public

ATTRIBUTES

◆ calleA : String Private

[Is static True. Containment is Not Specified.]

◆ calleB : String Private

[Is static True. Containment is Not Specified.]

◆ altura : float Private

[Is static True. Containment is Not Specified.]

OPERATIONS

◆ Interseccion (calleA : String , calleB : String , altura : float) : void Public

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

MetodoDeListado

Class in package 'Sistema De Informacion'

MetodoDeListado
Version 1.0 Phase 1.0 Proposed
Luciano created on 15/11/2023. Last modified 15/11/2023

OPERATIONS

◆ informesPorCiudadano (ciudadano : Ciudadano) : ArrayList<Ciudadano> Public

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

◆ informesSinPedidos () : ArrayList<InformeDeRotura> Public

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

◆ informeBrigadasOciosas () : ArrayList<BrigadaDeReparacion> Public

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

◆ pedidosPorBrigada (brigada : BrigadaDeRepacion) : ArrayList<PedidoDeObra> Public

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

OPERATIONS

◆ bachesSinReparar () : ArrayList<Bache> Public

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

◆ trabajadoresPorBrigada (brigada : BrigadaDeRepacion) : ArrayList<Trabajador> Public

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

PedidoDeObra

Class in package 'Sistema De Informacion'

PedidoDeObra
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

ATTRIBUTES

◆ numeroPedido : int Private

[Is static True. Containment is Not Specified.]

◆ ubicacion : Interseccion Private

[Is static True. Containment is Not Specified.]

◆ fechaCreacion : LocalDate Private

[Is static True. Containment is Not Specified.]

◆ fechaReparacion : NULL Private

[Is static True. Containment is Not Specified.]

◆ observaciones : String Private

[Is static True. Containment is Not Specified.]

◆ informeRotura : InformeDeRotura Private

[Is static True. Containment is Not Specified.]

ASSOCIATIONS

✏ Association (direction: Source -> Destination) pedidoAsignado

Source: Public (Class) BrigadaDeRepacion   Target: Public (Class) PedidoDeObra
   Cardinality: [0..1]   Cardinality: [0..1]

✏ Association (direction: Source -> Destination) PedidoReparacion

Source: Public (Class) InformeDeRotura   Target: Public (Class) PedidoDeObra
   Cardinality: [1]   Cardinality: [0..1]

ASSOCIATIONS

OPERATIONS

🔶 PedidoDeObra (numeroPedido : int , ubicacion : Interseccion , fechaCreacion : LocalDate , observaciones : String , informeRotura : InformeDeRotura) : void Public

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

Trabajador

Class in package 'Sistema De Informacion'

Trabajador
Version 1.0 Phase 1.0 Proposed
Luciano created on 13/11/2023. Last modified 13/11/2023

INCOMING STRUCTURAL RELATIONSHIPS

➡ Aggregation from BrigadaDeRepacion to Trabajador

[Name is trabajadores. Direction is 'Source -> Destination'.]

ATTRIBUTES

🔷 id : int Private

[Is static True. Containment is Not Specified.]

🔷 nombre : String Private

[Is static True. Containment is Not Specified.]

🔷 puesto : String Private

[Is static True. Containment is Not Specified.]

🔷 estaLibre : boolean Private

[Is static True. Containment is Not Specified.]

OPERATIONS

🔶 Trabajador (id : int , nombre : String , puesto : String , libre : boolean) : void Public

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