BIBLIOTHEQUE

Image11.png

USER

Table des Matières

[use case](#T2zfEgGD.AAAAQah)

[diagram class](#GRn_EgGD.AAAAQiA)

[Diagramme de séquence1](#CzuIkgGD.AAAAQor)

Table des Figures

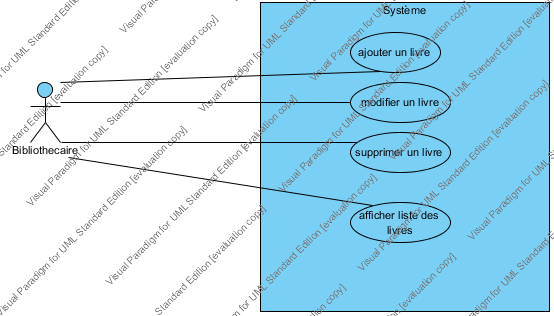
[use case](#T2zfEgGD.AAAAQah)

[diagram class](#GRn_EgGD.AAAAQiA)

[Diagramme de séquence1](#CzuIkgGD.AAAAQor)

Diagramme de cas d'utilisation

# use case



|  |  |
| --- | --- |
| Nom | Valeur |
| Nom | use case |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:27:44 |
| Last Modified | 20 avr. 2022 18:36:08 |
| Show Extend Condition | false |

## Synthèse

|  |  |
| --- | --- |
| Nom | Documentation |
| Image1.png [Bibliothecaire](#P2._EgGD.AAAAQeb) |  |
| Image2.png [afficher liste des livres](#P1ffEgGD.AAAAQdu) |  |
| Image2.png [supprimer un livre](#SEffEgGD.AAAAQdf) |  |
| Image2.png [modifier un livre](#oxvfEgGD.AAAAQdQ) |  |
| Image2.png [ajouter un livre](#ULPfEgGD.AAAAQc0) |  |
| Image3.png [Système](#9h1_EgGD.AAAAQhB) |  |

## Détails

### Image1.png Bibliothecaire

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:30:45 |
| Last Modified | 20 avr. 2022 18:36:17 |
| ID | AC01 |
| Visibilité | public |
| Abstraite | false |
| Feuille | false |
| Racine | false |
| Business Model | false |
| Goals |  |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image2.png [ajouter un livre](#KLPfEgGD.AAAAQc7) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:30:55 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:30:55 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image2.png [modifier un livre](#oxvfEgGD.AAAAQdR) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:31:06 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:06 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image2.png [supprimer un livre](#yEffEgGD.AAAAQdg) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:31:11 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:11 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image2.png [afficher liste des livres](#v1ffEgGD.AAAAQdv) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:31:25 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:25 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

### Image2.png afficher liste des livres

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:28:30 |
| Last Modified | 20 avr. 2022 17:38:17 |
| ID | UC04 |
| Abstraite | false |
| Feuille | false |
| Racine | false |
| Stéréotypes | UseCase |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [Bibliothecaire](#QO._EgGD.AAAAQec) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:31:25 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:25 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

### Image2.png supprimer un livre

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:28:28 |
| Last Modified | 20 avr. 2022 17:38:17 |
| ID | UC03 |
| Abstraite | false |
| Feuille | false |
| Racine | false |
| Stéréotypes | UseCase |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [Bibliothecaire](#QO._EgGD.AAAAQec) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:31:11 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:11 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

### Image2.png modifier un livre

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:28:26 |
| Last Modified | 20 avr. 2022 17:38:17 |
| ID | UC02 |
| Abstraite | false |
| Feuille | false |
| Racine | false |
| Stéréotypes | UseCase |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [Bibliothecaire](#QO._EgGD.AAAAQec) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:31:06 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:06 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

### Image2.png ajouter un livre

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:28:23 |
| Last Modified | 20 avr. 2022 17:38:17 |
| ID | UC01 |
| Abstraite | false |
| Feuille | false |
| Racine | false |
| Stéréotypes | UseCase |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [Bibliothecaire](#QO._EgGD.AAAAQec) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:30:55 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:30:55 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

### Image3.png Système

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:31:34 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Abstraite | false |
| Feuille | false |
| Racine | false |

#### Enfants

|  |  |
| --- | --- |
| Nom | Documentation |
| Image2.png [ajouter un livre](#ULPfEgGD.AAAAQc0) |  |
| Image2.png [modifier un livre](#oxvfEgGD.AAAAQdQ) |  |
| Image2.png [supprimer un livre](#SEffEgGD.AAAAQdf) |  |
| Image2.png [afficher liste des livres](#P1ffEgGD.AAAAQdu) |  |

Diagramme de classes

# diagram class



|  |  |
| --- | --- |
| Nom | Valeur |
| Nom | diagram class |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:32:31 |
| Last Modified | 20 avr. 2022 18:40:16 |

## Synthèse

|  |  |
| --- | --- |
| Nom | Documentation |
| Image5.png [livre](#NQ2AkgGD.AAAAQix) |  |
| Image5.png [bibliotheque](#sO1gkgGD.AAAAQkt) |  |

## Détails

### Image5.png livre

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:34:49 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Activer | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibilité | public |
| Feuille | false |
| Racine | false |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private code : int | | | |
| Auteur | USER | | |
| Create Date Time | 20 avr. 2022 17:35:00 | | |
| Last Modified | 20 avr. 2022 17:38:17 | | |
| Type | Image6.png int | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicité | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Feuille | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private auteur : String | | | |
| Auteur | USER | | |
| Create Date Time | 20 avr. 2022 17:35:09 | | |
| Last Modified | 20 avr. 2022 17:38:17 | | |
| Type | String | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicité | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Feuille | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private Titre : String | | | |
| Auteur | USER | | |
| Create Date Time | 20 avr. 2022 17:35:21 | | |
| Last Modified | 20 avr. 2022 17:38:17 | | |
| Type | String | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicité | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Feuille | false | | |

#### Operations

|  |  |
| --- | --- |
| public getCode () : int | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:35:09 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public setCode (code : int) : void | |
| Parameters | |  |  | | --- | --- | | code | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:35:09 | | Last Modified | 20 avr. 2022 17:38:17 | | Multiplicité | Unspecified | | Type | Image6.png int | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:35:09 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public getAuteur () : String | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:35:21 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public setAuteur (auteur : String) : void | |
| Parameters | |  |  | | --- | --- | | auteur | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:35:21 | | Last Modified | 20 avr. 2022 17:38:17 | | Multiplicité | Unspecified | | Type | String | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:35:21 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public getTitre () : String | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:35:28 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public setTitre (Titre : String) : void | |
| Parameters | |  |  | | --- | --- | | Titre | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:35:28 | | Last Modified | 20 avr. 2022 17:38:17 | | Multiplicité | Unspecified | | Type | String | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:35:28 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public livre (int code, String auteur, String titre) | |
| Parameters | |  |  | | --- | --- | | int code | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:37:09 | | Last Modified | 20 avr. 2022 17:38:17 | | Multiplicité | Unspecified | | Direction | inout |  |  |  | | --- | --- | | String auteur | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:37:09 | | Last Modified | 20 avr. 2022 17:38:17 | | Multiplicité | Unspecified | | Direction | inout |  |  |  | | --- | --- | | String titre | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:37:09 | | Last Modified | 20 avr. 2022 17:38:17 | | Multiplicité | Unspecified | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:36:28 |
| Last Modified | 20 avr. 2022 17:38:17 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public affiche () : void | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:39:04 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public compare (livre l) : boolean | |
| Parameters | |  |  | | --- | --- | | livre l | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:40:05 | | Last Modified | 20 avr. 2022 17:50:42 | | Multiplicité | Unspecified | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:39:53 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| contient : Association | |
| To (1) | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image5.png [bibliotheque](#cO1gkgGD.AAAAQku) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:45:21 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | Unspecified | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:45:21 |
| Last Modified | 20 avr. 2022 17:52:07 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

### Image5.png bibliotheque

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:40:18 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Activer | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibilité | public |
| Feuille | false |
| Racine | false |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| private liste : livre | | | |
| Auteur | USER | | |
| Create Date Time | 20 avr. 2022 17:40:30 | | |
| Last Modified | 20 avr. 2022 17:50:42 | | |
| Type Modifier | [] | | |
| Type | Image5.png [livre](#tQ2AkgGD.AAAAQiy) | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicité | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Feuille | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| private courant : int | | | |
| Auteur | USER | | |
| Create Date Time | 20 avr. 2022 17:43:04 | | |
| Last Modified | 20 avr. 2022 17:50:42 | | |
| Type | Image6.png int | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicité | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Feuille | false | | |

#### Operations

|  |  |
| --- | --- |
| public addLivre (livre l) | |
| Parameters | |  |  | | --- | --- | | livre l | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:43:33 | | Last Modified | 20 avr. 2022 17:50:42 | | Multiplicité | Unspecified | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:43:19 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public updateLivre (livre auncien, livre noubeau) | |
| Parameters | |  |  | | --- | --- | | livre auncien | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:44:25 | | Last Modified | 20 avr. 2022 17:50:42 | | Multiplicité | Unspecified | | Direction | inout |  |  |  | | --- | --- | | livre noubeau | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:44:25 | | Last Modified | 20 avr. 2022 17:50:42 | | Multiplicité | Unspecified | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:43:33 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| public delLivre (livre l) | |
| Parameters | |  |  | | --- | --- | | livre l | | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:44:48 | | Last Modified | 20 avr. 2022 17:50:42 | | Multiplicité | Unspecified | | Direction | inout | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:44:32 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

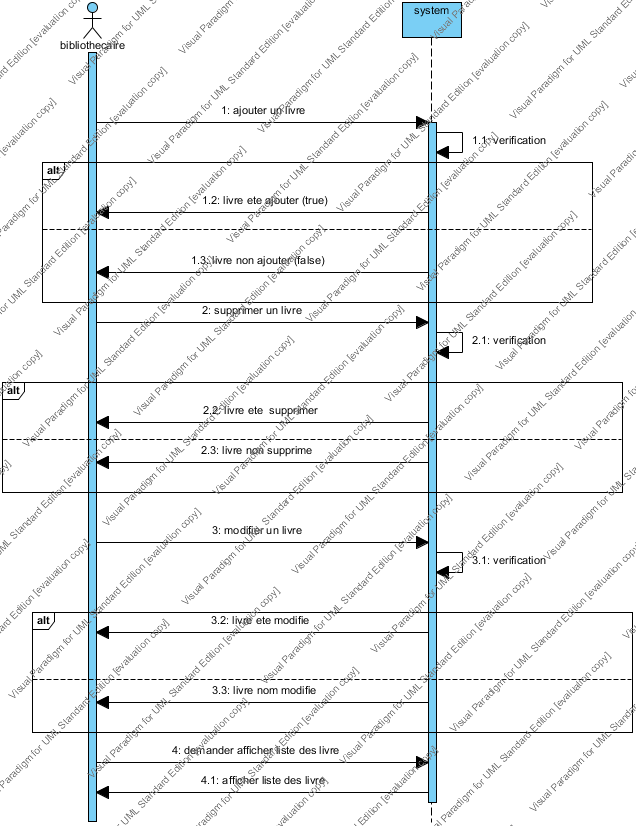
|  |  |
| --- | --- |
| public affiche () | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:44:48 |
| Last Modified | 20 avr. 2022 17:50:42 |
| Static | false |
| Feuille | false |
| Ordonné | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| contient : Association | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image5.png [livre](#tQ2AkgGD.AAAAQiy) | | Auteur | USER | | Create Date Time | 20 avr. 2022 17:45:21 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicité | 1..\* | | Visibilité | Unspecified | | Sorte Agrégation | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Feuille | false | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:45:21 |
| Last Modified | 20 avr. 2022 17:52:07 |
| Abstraite | false |
| Feuille | false |
| Visibilité | Unspecified |
| Derived | false |

Diagramme de séquence

# Diagramme de séquence1



|  |  |
| --- | --- |
| Nom | Valeur |
| Nom | Diagramme de séquence1 |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:52:29 |
| Last Modified | 20 avr. 2022 18:30:59 |

## Synthèse

|  |  |
| --- | --- |
| Nom | Documentation |
| Image1.png [bibliothecaire](#1EjIkgGD.AAAAQpI) |  |
| Image8.png [system](#ZyG4kgGD.AAAAQpe) |  |
| Image9.png [Operand6](#9uvkkgGD.AAAAQu1) |  |
| Image9.png [Operand5](#RuvkkgGD.AAAAQuv) |  |
| Image10.png [CombinedFragment3](#MuvkkgGD.AAAAQur) |  |
| Image9.png [Operand](#PW94kgGD.AAAAQqe) |  |
| Image9.png [Operand2](#k294kgGD.AAAAQql) |  |
| Image9.png [Operand3](#LN5EkgGD.AAAAQr7) |  |
| Image9.png [Operand4](#fN5EkgGD.AAAAQsB) |  |
| Image10.png [CombinedFragment2](#ZN5EkgGD.AAAAQr3) |  |

## Détails

### Image1.png bibliothecaire

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 17:53:48 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Visibilité | public |
| Abstraite | false |
| Feuille | false |
| Racine | false |
| Activer | false |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| ajouter un livre : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:05:13 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:05:13 |
| Last Modified | 20 avr. 2022 18:10:55 |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| supprimer un livre : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:10:17 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:10:17 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| modifier un livre : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:15:02 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:15:02 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| demander afficher liste des livre : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:18:03 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:18:03 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Type | Message |
| Sequence Number | 4 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre nom modifie : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:17:33 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:17:33 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 3.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre ete ajouter (true) : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:07:34 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:07:34 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 1.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| afficher liste des livre : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:19:55 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:19:55 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Type | Message |
| Sequence Number | 4.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre non supprime : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:14:27 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:14:27 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 2.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre ete supprimer : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:13:20 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:13:20 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 2.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre non ajouter (false) : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:08:36 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:08:36 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 1.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre ete modifie : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:17:02 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:17:02 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 3.2 |
| Asynchronous | false |

### Image8.png system

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:05:13 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Multiplicité | Unspecified |
| Activer | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| livre ete modifie : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:17:02 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:17:02 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 3.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| verification : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:06:20 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:06:20 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Self Message |
| Sequence Number | 1.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| verification : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:12:51 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:12:51 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Self Message |
| Sequence Number | 2.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre non ajouter (false) : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:08:36 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:08:36 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 1.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre ete supprimer : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:13:20 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:13:20 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 2.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre ete ajouter (true) : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:07:34 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:07:34 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 1.2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| verification : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image8.png [system](#FyG4kgGD.AAAAQpf) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:15:22 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:15:22 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Self Message |
| Sequence Number | 3.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| afficher liste des livre : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:19:55 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:19:55 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Type | Message |
| Sequence Number | 4.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre nom modifie : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:17:33 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:17:33 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 3.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| livre non supprime : Message | |
| To | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:14:27 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:14:27 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 2.3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| supprimer un livre : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:10:17 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:10:17 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| ajouter un livre : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:05:13 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:05:13 |
| Last Modified | 20 avr. 2022 18:10:55 |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| modifier un livre : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:15:02 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:15:02 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Type | Message |
| Sequence Number | 3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| demander afficher liste des livre : Message | |
| From | |  |  | | --- | --- | | Nom | Valeur | | End Model Element | Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:18:03 | |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:18:03 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Type | Message |
| Sequence Number | 4 |
| Asynchronous | false |

### Image9.png Operand6

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:16:29 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Guard | |  |  | | --- | --- | | Nom | Valeur | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:16:29 | |

### Image9.png Operand5

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:16:29 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Guard | |  |  | | --- | --- | | Nom | Valeur | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:16:29 | |

### Image10.png CombinedFragment3

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:16:29 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand5 |
| Operand6 |

#### Covered LifeLines

|  |  |
| --- | --- |
| Nom | Documentation |
| Image8.png [system](#FyG4kgGD.AAAAQpf) |  |
| Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) |  |

### Image9.png Operand

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:06:47 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Guard | |  |  | | --- | --- | | Nom | Valeur | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:22:37 | |

### Image9.png Operand2

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:06:47 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Guard | |  |  | | --- | --- | | Nom | Valeur | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:06:47 | |

### Image9.png Operand3

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:10:38 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Guard | |  |  | | --- | --- | | Nom | Valeur | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:10:38 | |

### Image9.png Operand4

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:10:38 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Guard | |  |  | | --- | --- | | Nom | Valeur | | Auteur | USER | | Create Date Time | 20 avr. 2022 18:10:38 | |

### Image10.png CombinedFragment2

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:10:38 |
| Last Modified | 20 avr. 2022 18:20:55 |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand3 |
| Operand4 |

#### Covered LifeLines

|  |  |
| --- | --- |
| Nom | Documentation |
| Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) |  |
| Image8.png [system](#FyG4kgGD.AAAAQpf) |  |

### Image10.png N/A

|  |  |
| --- | --- |
| Nom | Valeur |
| Auteur | USER |
| Create Date Time | 20 avr. 2022 18:06:47 |
| Last Modified | 20 avr. 2022 18:31:06 |
| Operator Kind | alt |

#### Interaction Operands

|  |
| --- |
| Value |
| Operand |
| Operand2 |

#### Covered LifeLines

|  |  |
| --- | --- |
| Nom | Documentation |
| Image1.png [bibliothecaire](#9EjIkgGD.AAAAQpJ) |  |
| Image8.png [system](#FyG4kgGD.AAAAQpf) |  |