TPbib

Image15.png

sanaa

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[Sequence Diagram emprunteur](#FXOQQgGD.AAAAQoz)

# Use Case Scheduling

|  |  |  |
| --- | --- | --- |
| **Rank** | **Use Case Name** | **Justification** |
| Unspecified | chercher un livre |  |
| Unspecified | empraintr un livre |  |
| Unspecified | enregisrer l'emprainte |  |
| Unspecified | lister un livre |  |

# Use Case Ranks

|  |  |
| --- | --- |
| **Rank** | **Description** |
| Low |  |
| Medium |  |
| High |  |

# Stereotypes

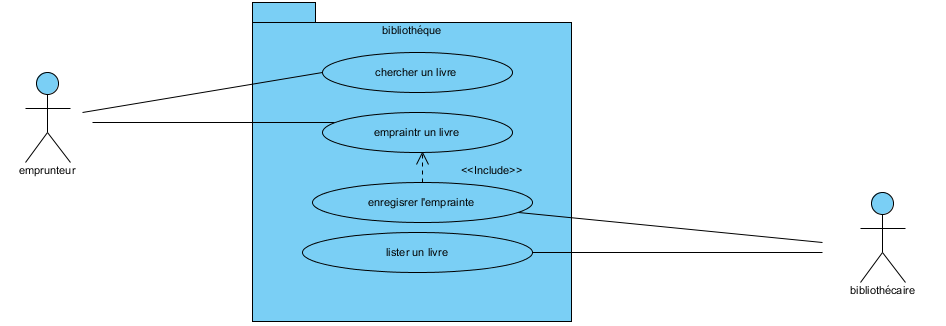
|  |  |
| --- | --- |
| **UseCase** | |
| Tagged Value Definitions | |  |  | | --- | --- | | **Level** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Summary, User, Subfunction |  |  |  | | --- | --- | | **Complexity** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Low, Medium, High |  |  |  | | --- | --- | | **Use Case Status** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Name Only, Initial, Base, Complete, Deferred |  |  |  | | --- | --- | | **Implementation Status** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Scheduled, Started, Partially Complete, Complete, Partially Deferred |  |  |  | | --- | --- | | **Preconditions** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Multi-line Text |  |  |  | | --- | --- | | **Post-conditions** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Multi-line Text |  |  |  | | --- | --- | | **Author** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Text |  |  |  | | --- | --- | | **Assumptions** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:34 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Multi-line Text | |

|  |  |
| --- | --- |
| **requirement** | |
| Tagged Value Definitions | |  |  | | --- | --- | | **Text** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | HTML Text |  |  |  | | --- | --- | | **ID** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Text |  |  |  | | --- | --- | | **source** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Text |  |  |  | | --- | --- | | **kind** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Functional, Performance, Interface |  |  |  | | --- | --- | | **verifyMethod** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Analysis, Demonstration, Inspection, Test |  |  |  | | --- | --- | | **risk** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | High, Medium, Low |  |  |  | | --- | --- | | **status** | | | Author | sanaa | | Create Date Time | 14 avr. 2022 13:14:33 | | Last Modified | 19 avr. 2022 14:46:00 | | Type | Enumeration | | Enumeration Values | Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete | |

|  |  |
| --- | --- |
| **Include** | |

Use Case Diagram

# Use Case Diagram



|  |  |
| --- | --- |
| **Name** | **Value** |
| Name | Use Case Diagram |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:36:19 |
| Last Modified | 20 avr. 2022 18:39:29 |
| Show Extend Condition | false |

## Summary

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [emprunteur](#y9zbggGD.AAAAQbc) | toute personne qui peut emprainter un livre |
| Image1.png [bibliothécaire](#ix7bggGD.AAAAQbj) | une personne à qui sont confiées des tâches de gestion des collections documentaires et d'aide aux usagers dans une [bibliothèque](https://fr.wikipedia.org/wiki/Biblioth%C3%A8que), mais aussi des fonctions d'administration générale.Elle a pour rôle de gérer les livres contenus da la bibliothèque et les personnes qui accèdent à la bibliothèque. |
| Image2.png [lister un livre](#m8DbggGD.AAAAQbL) | la bibiliothécaire peut lister les livres de la bibliothéque |
| Image2.png [enregisrer l'emprainte](#mLVbggGD.AAAAQa5) | Aprés la demande de l'emprainte , la bibliothécaire va enregistré cet emprainte en rentrant les information du emprunteur , la date de l'emprainte et la date de retour. |
| Image2.png [empraintr un livre](#dKRbggGD.AAAAQan) | suite à une recherche d'un livre donné et s'il est disponible l'emprunteur peut demandé ce livre et l'emprunter |
| Image2.png [chercher un livre](#eHmbggGD.AAAAQaR) | tout personne peut cherché si un livre excit dans la bibliothéque selon son nom . Il vas reçevoir comme réponse l'état du livre qui peut prendre deux valeurs:   * disponible * indisponible |
| Image3.png [bibliothéque](#TrU7ggGD.AAAAQb5) | l'ensemble des opérations possibles |

## Details

### Image1.png emprunteur

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | toute personne qui peut emprainter un livre |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:45:28 |
| Last Modified | 19 avr. 2022 16:07:45 |
| ID | AC01 |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Model element at root | Add model element to a container | | Name does not contain glossary terms | Define name as term in glossary | |
| Business Model | false |
| Goals |  |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image2.png [chercher un livre](#xHmbggGD.AAAAQaS) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:33 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:33 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

|  |  |
| --- | --- |
| **Unnamed Association** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image2.png [empraintr un livre](#9KRbggGD.AAAAQao) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:37 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:37 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

### Image1.png bibliothécaire

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | une personne à qui sont confiées des tâches de gestion des collections documentaires et d'aide aux usagers dans une [bibliothèque](https://fr.wikipedia.org/wiki/Biblioth%C3%A8que), mais aussi des fonctions d'administration générale.Elle a pour rôle de gérer les livres contenus da la bibliothèque et les personnes qui accèdent à la bibliothèque. |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:45:44 |
| Last Modified | 19 avr. 2022 14:56:31 |
| ID | AC02 |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Model element at root | Add model element to a container | | Name does not contain glossary terms | Define name as term in glossary | |
| Business Model | false |
| Goals |  |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image2.png [enregisrer l'emprainte](#mLVbggGD.AAAAQa6) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:45 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:45 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

|  |  |
| --- | --- |
| **Unnamed Association** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image2.png [lister un livre](#W8DbggGD.AAAAQbM) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:49 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:49 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

### Image2.png lister un livre

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | la bibiliothécaire peut lister les livres de la bibliothéque |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:45:14 |
| Last Modified | 19 avr. 2022 16:58:05 |
| ID | UC04 |
| Abstract | false |
| Leaf | false |
| Root | false |
| Stereotypes | UseCase |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#ix7bggGD.AAAAQbk) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:49 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:49 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

### Image2.png enregisrer l'emprainte

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | Aprés la demande de l'emprainte , la bibliothécaire va enregistré cet emprainte en rentrant les information du emprunteur , la date de l'emprainte et la date de retour. |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:44:51 |
| Last Modified | 19 avr. 2022 16:21:21 |
| ID | UC03 |
| Abstract | false |
| Leaf | false |
| Root | false |
| Stereotypes | UseCase |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#ix7bggGD.AAAAQbk) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:45 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:45 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

|  |  |
| --- | --- |
| **Unnamed Include** | |
| To | Image2.png [empraintr un livre](#dKRbggGD.AAAAQan) |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:53:53 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Visibility | Unspecified |
| Stereotypes | Include |
| Quality Score | Good |

### Image2.png empraintr un livre

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | suite à une recherche d'un livre donné et s'il est disponible l'emprunteur peut demandé ce livre et l'emprunter |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:44:17 |
| Last Modified | 19 avr. 2022 16:21:21 |
| ID | UC02 |
| Abstract | false |
| Leaf | false |
| Root | false |
| Stereotypes | UseCase |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [emprunteur](#a9zbggGD.AAAAQbd) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:37 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:37 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

|  |  |
| --- | --- |
| **Unnamed Include** | |
| From | Image2.png [enregisrer l'emprainte](#mLVbggGD.AAAAQa5) |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:53:53 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Visibility | Unspecified |
| Stereotypes | Include |
| Quality Score | Good |

### Image2.png chercher un livre

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | tout personne peut cherché si un livre excit dans la bibliothéque selon son nom . Il vas reçevoir comme réponse l'état du livre qui peut prendre deux valeurs:   * disponible * indisponible |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:43:42 |
| Last Modified | 19 avr. 2022 16:21:21 |
| ID | UC01 |
| Abstract | false |
| Leaf | false |
| Root | false |
| Stereotypes | UseCase |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [emprunteur](#a9zbggGD.AAAAQbd) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:47:33 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:33 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

### Image3.png bibliothéque

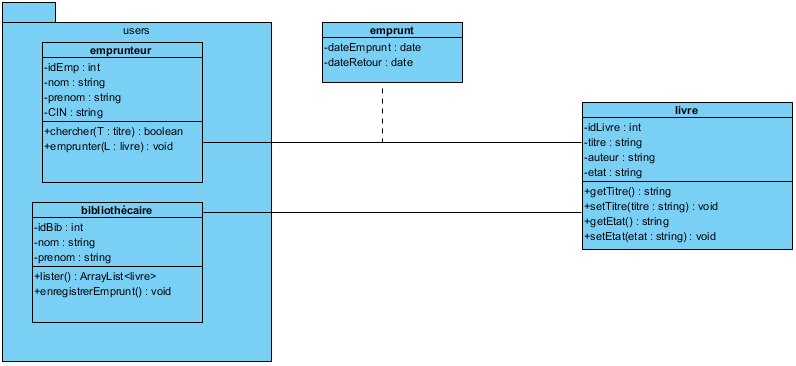
|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | l'ensemble des opérations possibles |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:47:03 |
| Last Modified | 19 avr. 2022 16:10:51 |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Very Bad |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | | Model element without any relationship | Connect model element with relationship | |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image2.png [chercher un livre](#eHmbggGD.AAAAQaR) | tout personne peut cherché si un livre excit dans la bibliothéque selon son nom . Il vas reçevoir comme réponse l'état du livre qui peut prendre deux valeurs:   * disponible * indisponible |
| Image2.png [empraintr un livre](#dKRbggGD.AAAAQan) | suite à une recherche d'un livre donné et s'il est disponible l'emprunteur peut demandé ce livre et l'emprunter |
| Image2.png [enregisrer l'emprainte](#mLVbggGD.AAAAQa5) | Aprés la demande de l'emprainte , la bibliothécaire va enregistré cet emprainte en rentrant les information du emprunteur , la date de l'emprainte et la date de retour. |
| Image2.png [lister un livre](#m8DbggGD.AAAAQbL) | la bibiliothécaire peut lister les livres de la bibliothéque |

Class Diagram

# Class Diagram



|  |  |
| --- | --- |
| **Name** | **Value** |
| Name | Class Diagram |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:39:23 |
| Last Modified | 20 avr. 2022 19:02:32 |

## Summary

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image3.png [users](#2fhHggGD.AAAAQd5) | package qui contient les deux classes des utulisateurs :   * classe emprunteur * classe bibliothécaire |
| Image5.png [emprunt](#pRPHggGD.AAAAQek) | une classe association entre les deux classes livre et emprunteur |
| Image5.png [emprunteur](#uSe7ggGD.AAAAQc3) |  |
| Image5.png [livre](#QnKnggGD.AAAAQe2) |  |
| Image5.png [bibliothécaire](#dogHggGD.AAAAQdZ) | Classe d'un utulisateure contient trois attributs et deux méthodes.  Elle définie la bibliothécaire. |

## Details

### Image3.png users

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | package qui contient les deux classes des utulisateurs :   * classe emprunteur * classe bibliothécaire |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:52:59 |
| Last Modified | 20 avr. 2022 18:46:55 |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Very Bad |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | | Model element without any relationship | Connect model element with relationship | |
| Visibility | public |

#### Children

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image5.png [emprunteur](#uSe7ggGD.AAAAQc3) |  |
| Image5.png [bibliothécaire](#dogHggGD.AAAAQdZ) | Classe d'un utulisateure contient trois attributs et deux méthodes.  Elle définie la bibliothécaire. |

### Image5.png emprunt

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | une classe association entre les deux classes livre et emprunteur |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:54:48 |
| Last Modified | 20 avr. 2022 19:00:32 |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Model element at root | Add model element to a container | | Name does not contain glossary terms | Define name as term in glossary | |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **private dateEmprunt : date** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:54:59 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | date | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private dateRetour : date** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:55:16 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | date | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association Class** | |
| From | Image6.png N/A |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:43 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Quality Score | Good |
| Visibility | Unspecified |

### Image5.png emprunteur

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:48:22 |
| Last Modified | 20 avr. 2022 18:46:55 |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **private idEmp : int** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:48:53 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png int | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private nom : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:49:04 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private prenom : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:49:17 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private CIN : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:49:26 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

#### Operations

|  |  |
| --- | --- |
| **public chercher (T : titre) : boolean** | |
| Parameters | |  |  | | --- | --- | | **T** | | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:50:19 | | Last Modified | 19 avr. 2022 17:02:54 | | Multiplicity | Unspecified | | Type | titre | | Direction | inout | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:49:54 |
| Last Modified | 19 avr. 2022 17:02:54 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public emprunter (L : livre) : void** | |
| Parameters | |  |  | | --- | --- | | **L** | | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:50:40 | | Last Modified | 19 avr. 2022 17:02:54 | | Multiplicity | Unspecified | | Type | Image5.png [livre](#QnKnggGD.AAAAQe3) | | Direction | inout | |
| Documentation | classe d'un utilisateur du systhème , définie par les champs :   * idEmp * nom * prenom * CIN   et aussi avec deux méthodes:   * chercher * emprunter |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:50:19 |
| Last Modified | 20 avr. 2022 18:46:55 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image5.png [livre](#QnKnggGD.AAAAQe3) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:27 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:27 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |
| Relationships | |  |  | | --- | --- | | **Unnamed Association Class** | | | To | Image5.png [emprunt](#pRPHggGD.AAAAQek) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:43 | | Last Modified | 19 avr. 2022 15:07:01 | | Quality Score | Good | | Visibility | Unspecified | |

### Image5.png livre

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:56:28 |
| Last Modified | 20 avr. 2022 19:00:32 |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Model element at root | Add model element to a container | | Name does not contain glossary terms | Define name as term in glossary | |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **private idLivre : int** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:57:04 | | |
| Last Modified | 19 avr. 2022 15:07:01 | | |
| Type | Image7.png int | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private titre : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:57:14 | | |
| Last Modified | 19 avr. 2022 15:07:01 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private auteur : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:57:22 | | |
| Last Modified | 19 avr. 2022 15:07:01 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private etat : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:57:31 | | |
| Last Modified | 19 avr. 2022 15:07:01 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

#### Operations

|  |  |
| --- | --- |
| **public getTitre () : string** | |
| Documentation | classe décrit les livres |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:58:42 |
| Last Modified | 20 avr. 2022 19:00:32 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public setTitre (titre : string) : void** | |
| Parameters | |  |  | | --- | --- | | **titre** | | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:58:42 | | Last Modified | 19 avr. 2022 15:07:01 | | Multiplicity | Unspecified | | Type | Image7.png string | | Direction | inout | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:58:42 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public getEtat () : string** | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:05 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

|  |  |
| --- | --- |
| **public setEtat (etat : string) : void** | |
| Parameters | |  |  | | --- | --- | | **etat** | | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:05 | | Last Modified | 19 avr. 2022 15:07:01 | | Multiplicity | Unspecified | | Type | Image7.png string | | Direction | inout | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:05 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image5.png [emprunteur](#.Se7ggGD.AAAAQc4) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:27 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:27 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |
| Relationships | |  |  | | --- | --- | | **Unnamed Association Class** | | | To | Image5.png [emprunt](#pRPHggGD.AAAAQek) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:43 | | Last Modified | 19 avr. 2022 15:07:01 | | Quality Score | Good | | Visibility | Unspecified | |

|  |  |
| --- | --- |
| **Unnamed Association** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image5.png [bibliothécaire](#dogHggGD.AAAAQda) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:37 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:37 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

### Image5.png bibliothécaire

|  |  |
| --- | --- |
| **Name** | **Value** |
| Documentation | Classe d'un utulisateure contient trois attributs et deux méthodes.  Elle définie la bibliothécaire. |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:50:45 |
| Last Modified | 20 avr. 2022 18:57:25 |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |

#### Attributes

|  |  |  |  |
| --- | --- | --- | --- |
| **private idBib : int** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:51:17 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png int | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private nom : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:51:29 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **private prenom : string** | | | |
| Author | sanaa | | |
| Create Date Time | 19 avr. 2022 14:51:34 | | |
| Last Modified | 19 avr. 2022 14:56:31 | | |
| Type | Image7.png string | | |
| Allow Empty Name | false | | |
| Getter | false | Setter | false |
| Derived | false | | |
| Multiplicity | Unspecified | | |
| Aggregation | None | | |
| Derived Union | false | | |
| Read Only | false | | |
| Leaf | false | | |

#### Operations

|  |  |
| --- | --- |
| **public lister () : ArrayList** | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:51:57 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Static | false |
| Leaf | false |
| Template Type Bind Info | N/A |
| Ordered | false |
| Unique | true |
| Query | false |

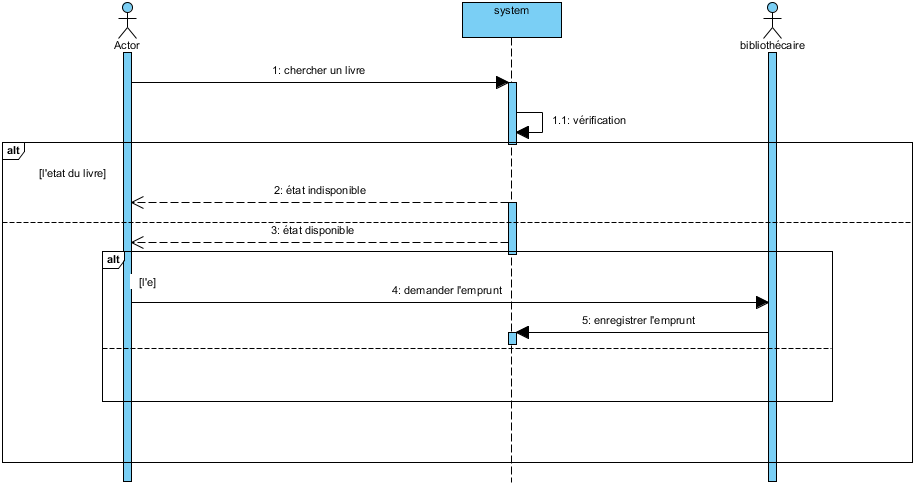
|  |  |
| --- | --- |
| **public enregistrerEmprunt () : void** | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:52:22 |
| Last Modified | 19 avr. 2022 14:56:31 |
| Static | false |
| Leaf | false |
| Ordered | false |
| Unique | true |
| Query | false |

#### Relationships

|  |  |
| --- | --- |
| **Unnamed Association** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image5.png [livre](#QnKnggGD.AAAAQe3) | | Author | sanaa | | Create Date Time | 19 avr. 2022 14:59:37 | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | true | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 14:59:37 |
| Last Modified | 19 avr. 2022 15:07:01 |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Quality Score | Good |
| Derived | false |

Sequence Diagram

# Diagramme de Sequence général



|  |  |
| --- | --- |
| **Name** | **Value** |
| Name | Diagramme de Sequence général |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:17:44 |
| Last Modified | 20 avr. 2022 18:39:12 |

## Summary

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [Actor](#eTGfggGD.AAAAQhn) |  |
| Image9.png [system](#p8DfggGD.AAAAQhv) |  |
| Image1.png [bibliothécaire](#5RTfggGD.AAAAQh2) |  |
| Image10.png [Operand](#rck_ggGD.AAAAQjF) |  |
| Image10.png [Operand2](#K8k_ggGD.AAAAQjL) |  |
| Image10.png [Operand3](#I9UAQgGD.AAAAQkj) |  |
| Image10.png [Operand4](#Z9UAQgGD.AAAAQkp) |  |
| Image11.png [emprunter le livre](#jtUAQgGD.AAAAQkf) |  |
| Image11.png [l'etat du livre](#Dsk_ggGD.AAAAQjB) |  |

## Details

### Image1.png Actor

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:18:35 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Active | false |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **chercher un livre : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#V8DfggGD.AAAAQhw) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:20:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:20:37 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **demander l'emprunt : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#5RTfggGD.AAAAQh3) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:29:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:29:37 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 4 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **état indisponible : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#V8DfggGD.AAAAQhw) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:22:17 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:22:17 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 2 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:23:25 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **état disponible : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#V8DfggGD.AAAAQhw) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:23:47 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:23:47 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 3 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:24:09 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

### Image9.png system

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:20:11 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Multiplicity | Unspecified |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| **état indisponible : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [Actor](#hTGfggGD.AAAAQho) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:22:17 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:22:17 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 2 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:23:25 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **vérification : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#V8DfggGD.AAAAQhw) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:20:57 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:20:57 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Self Message |
| Sequence Number | 1.1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **état disponible : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [Actor](#hTGfggGD.AAAAQho) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:23:47 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:23:47 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 3 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:24:09 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **enregistrer l'emprunt : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#5RTfggGD.AAAAQh3) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:30:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:30:37 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 5 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **chercher un livre : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [Actor](#hTGfggGD.AAAAQho) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:20:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:20:37 |
| Last Modified | 19 avr. 2022 15:28:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

### Image1.png bibliothécaire

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:20:20 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Active | false |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **enregistrer l'emprunt : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#V8DfggGD.AAAAQhw) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:30:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:30:37 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 5 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **demander l'emprunt : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [Actor](#hTGfggGD.AAAAQho) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:29:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:29:37 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 4 |
| Asynchronous | false |

### Image10.png Operand

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:21:53 |
| Last Modified | 19 avr. 2022 16:31:40 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Guard | |  |  | | --- | --- | | **Name** | **Value** | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:22:09 | | Constraint | l'etat du livre | |

### Image10.png Operand2

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:21:53 |
| Last Modified | 19 avr. 2022 16:31:40 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Guard | |  |  | | --- | --- | | **Name** | **Value** | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:21:53 | |

### Image10.png Operand3

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:26:21 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Guard | |  |  | | --- | --- | | **Name** | **Value** | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:26:54 | | Constraint | l'e | |

### Image10.png Operand4

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:26:21 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Guard | |  |  | | --- | --- | | **Name** | **Value** | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:26:21 | |

### Image11.png emprunter le livre

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:26:21 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Operator Kind | alt |

#### Interaction Operands

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

#### Covered LifeLines

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [Actor](#hTGfggGD.AAAAQho) |  |
| Image9.png [system](#V8DfggGD.AAAAQhw) |  |
| Image1.png [bibliothécaire](#5RTfggGD.AAAAQh3) |  |

### Image11.png l'etat du livre

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:21:53 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Operator Kind | alt |

#### Interaction Operands

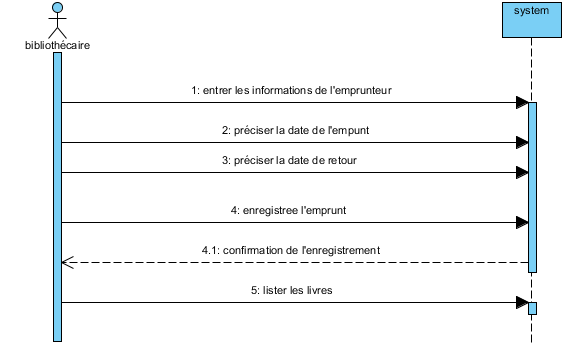
|  |
| --- |
| **Value** |
| Operand |
| Operand2 |

#### Covered LifeLines

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [Actor](#hTGfggGD.AAAAQho) |  |
| Image9.png [system](#V8DfggGD.AAAAQhw) |  |
| Image1.png [bibliothécaire](#5RTfggGD.AAAAQh3) |  |

Sequence Diagram

# Sequence Diagram bibliothécaire



|  |  |
| --- | --- |
| **Name** | **Value** |
| Name | Sequence Diagram bibliothécaire |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:31:07 |
| Last Modified | 19 avr. 2022 16:21:01 |

## Summary

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmS) |  |
| Image9.png [system](#tpxgQgGD.AAAAQmg) |  |

## Details

### Image1.png bibliothécaire

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:31:26 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Active | false |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **entrer les informations de l'emprunteur : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#tpxgQgGD.AAAAQmh) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:32:38 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:32:38 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **préciser la date de l'empunt : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#tpxgQgGD.AAAAQmh) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:33:07 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:33:07 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 2 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **préciser la date de retour : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#tpxgQgGD.AAAAQmh) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:33:29 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:33:29 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **enregistree l'emprunt : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#tpxgQgGD.AAAAQmh) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:34:12 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:34:12 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Return Message | Image13.png confirmation de l'enregistrement |
| Type | Message |
| Sequence Number | 4 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **lister les livres : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#tpxgQgGD.AAAAQmh) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:35:36 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:35:36 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 5 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **confirmation de l'enregistrement : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#tpxgQgGD.AAAAQmh) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:34:42 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:34:42 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 4.1 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:35:29 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

### Image9.png system

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:32:25 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Multiplicity | Unspecified |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| **confirmation de l'enregistrement : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmT) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:34:42 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:34:42 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 4.1 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:35:29 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **entrer les informations de l'emprunteur : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmT) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:32:38 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:32:38 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **préciser la date de l'empunt : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmT) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:33:07 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:33:07 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 2 |
| Asynchronous | false |

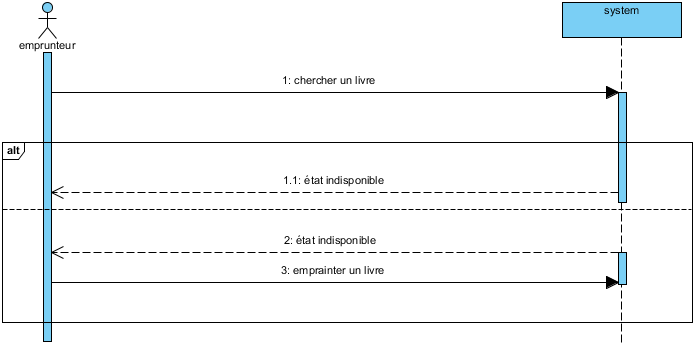
|  |  |
| --- | --- |
| **préciser la date de retour : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmT) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:33:29 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:33:29 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **enregistree l'emprunt : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmT) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:34:12 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:34:12 |
| Last Modified | 19 avr. 2022 15:39:02 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Return Message | Image13.png confirmation de l'enregistrement |
| Type | Message |
| Sequence Number | 4 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **lister les livres : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [bibliothécaire](#k_KgQgGD.AAAAQmT) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:35:36 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:35:36 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 5 |
| Asynchronous | false |

Sequence Diagram

# Sequence Diagram emprunteur



|  |  |
| --- | --- |
| **Name** | **Value** |
| Name | Sequence Diagram emprunteur |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:36:20 |
| Last Modified | 19 avr. 2022 16:21:10 |

## Summary

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [emprunteur](#NZeQQgGD.AAAAQpB) |  |
| Image9.png [system](#6qtQQgGD.AAAAQpK) |  |
| Image10.png [Operand5](#uRowQgGD.AAAAQpo) |  |
| Image10.png [Operand6](#fRowQgGD.AAAAQpu) |  |
| Image11.png [CombinedFragment](#PhowQgGD.AAAAQpk) |  |

## Details

### Image1.png emprunteur

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:36:27 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Active | false |
| Business Model | false |

#### Relationships

|  |  |
| --- | --- |
| **chercher un livre : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#6qtQQgGD.AAAAQpL) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:38:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:38:37 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Return Message | Image13.png état indisponible |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **emprainter un livre : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#6qtQQgGD.AAAAQpL) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:42 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:40:42 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 3 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **état indisponible : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#6qtQQgGD.AAAAQpL) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:39:34 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:39:34 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 1.1 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:00 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **état indisponible : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image9.png [system](#6qtQQgGD.AAAAQpL) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:13 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:40:13 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 2 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:29 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

### Image9.png system

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:37:27 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Multiplicity | Unspecified |
| Active | false |
| Stopped | false |
| Multi Object | false |

#### Relationships

|  |  |
| --- | --- |
| **état indisponible : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [emprunteur](#NZeQQgGD.AAAAQpC) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:39:34 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:39:34 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 1.1 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:00 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **état indisponible : Message** | |
| To | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [emprunteur](#NZeQQgGD.AAAAQpC) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:13 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:40:13 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 2 |
| Action Type | |  |  | | --- | --- | | **Name** | **Value** | | Name | Return | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:29 | | Iteration | false | | Asynchronous | false | |
| Asynchronous | false |

|  |  |
| --- | --- |
| **chercher un livre : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [emprunteur](#NZeQQgGD.AAAAQpC) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:38:37 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:38:37 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Return Message | Image13.png état indisponible |
| Type | Message |
| Sequence Number | 1 |
| Asynchronous | false |

|  |  |
| --- | --- |
| **emprainter un livre : Message** | |
| From | |  |  | | --- | --- | | **Name** | **Value** | | End Model Element | Image1.png [emprunteur](#NZeQQgGD.AAAAQpC) | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:40:42 | |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:40:42 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Type | Message |
| Sequence Number | 3 |
| Asynchronous | false |

### Image10.png Operand5

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:39:07 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Guard | |  |  | | --- | --- | | **Name** | **Value** | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:39:07 | |

### Image10.png Operand6

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:39:07 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Guard | |  |  | | --- | --- | | **Name** | **Value** | | Author | sanaa | | Create Date Time | 19 avr. 2022 15:39:07 | |

### Image11.png CombinedFragment

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:39:07 |
| Last Modified | 19 avr. 2022 15:48:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Operator Kind | alt |

#### Interaction Operands

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

#### Covered LifeLines

|  |  |
| --- | --- |
| **Name** | **Documentation** |
| Image1.png [emprunteur](#NZeQQgGD.AAAAQpC) |  |
| Image9.png [system](#6qtQQgGD.AAAAQpL) |  |

Textual Analysis

# Textual Analysis1

L'objectif de ce projet est de mettre en place une application de gestion d'une bibliothéque les intervenants dans cette applications sont:

* la bibliothécaire : une personne à qui sont confiées des tâches de gestion des collections documentaires et d'aide aux usagers dans une bibliothèque , mais aussi des fonctions d'administration générale.Elle a pour rôle de gérer les livres contenus da la bibliothèque et les personnes qui accèdent à la bibliothèque, dans notre cas elle est indentifié par idBib, nom et prenom .
* emprunteur:toute personne qui peut emprainter un livre de la bibliothéque et il est identifié par un idEmp,nom et prenom.

Cette application vas permettre la gestion semi-automatique de l'ensemble de l'opération du l'emprant des livres , ce qui facilitera le travail de la bibliothécaire d'une part, et d'autre part, qui réduira de manière systématique la durée de recherche documentaire par l'emprunteur, en plus cette application permette de la gestions des emprunts que la bibliothécaire vas utilisé pour enregistrer l'ensemble des emprunts pour chaque emprunteur.

#### Candidate Classes

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:54:59 |
| Last Modified | 19 avr. 2022 16:00:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Candidate Item Type | Actor |
| Candidate Item Text | emprunteur |
| Highlight Color | #ffff00 |
| Ignore | false |

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:55:09 |
| Last Modified | 19 avr. 2022 16:00:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Candidate Item Type | Class |
| Candidate Item Text | emprant |
| Highlight Color | #ffff00 |
| Ignore | false |

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:55:23 |
| Last Modified | 19 avr. 2022 16:00:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Candidate Item Type | Actor |
| Candidate Item Text | bibliothécaire |
| Highlight Color | #ffff00 |
| Ignore | false |

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:55:34 |
| Last Modified | 19 avr. 2022 16:00:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Candidate Item Type | Use Case |
| Candidate Item Text | emprant des livres |
| Highlight Color | #ffff00 |
| Ignore | false |

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:55:58 |
| Last Modified | 19 avr. 2022 16:00:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Candidate Item Type | Use Case |
| Candidate Item Text | recherche |
| Highlight Color | #ffff00 |
| Ignore | false |

|  |  |
| --- | --- |
| **Name** | **Value** |
| Author | sanaa |
| Create Date Time | 19 avr. 2022 15:57:00 |
| Last Modified | 19 avr. 2022 16:00:21 |
| Quality Score | Fair |
| Quality Reason | |  |  | | --- | --- | | **Problem** | **Suggestion** | | Name does not contain glossary terms | Define name as term in glossary | |
| Candidate Item Type | Use Case |
| Candidate Item Text | gestions des emprunts |
| Highlight Color | #ffff00 |
| Ignore | false |