Usecase: Delete Book
Actor: Staff Member (or Admin)
PreCondition: Log On

Main Success Scenario:
1. Staff Member provides the title of the book to be deleted
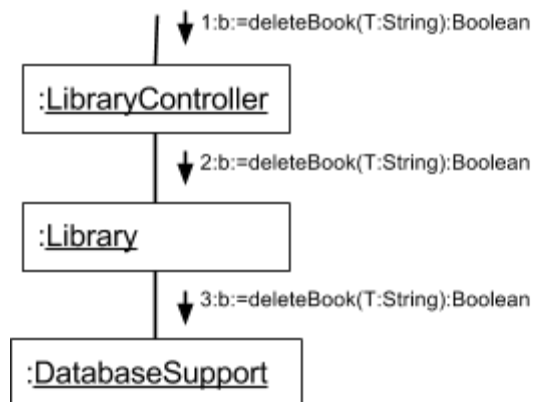2. System returns the book was deleted successfully
Extensions:
    1a. The book does not exist
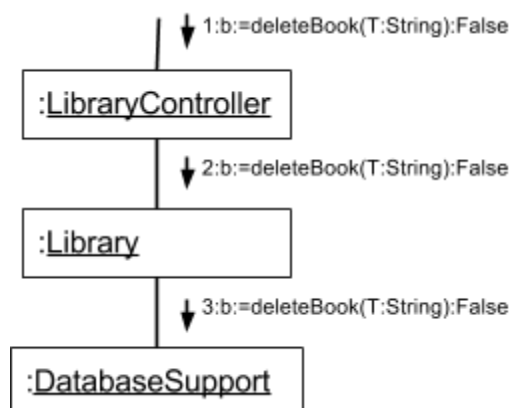   -System indicates the operation failed.

Information Experts:
    The information expert for delete book is library. Library knows books.

Interaction Diagram Fragment:

1:b:=deleteBook(T:String):Boolean

:LibraryController

2:b:=deleteBook(T:String):Boolean

:Library

3:b:=deleteBook(T:String):Boolean

:DatabaseSupport

Extension 1a:

1:b:=deleteBook(T:String):False

:LibraryController

2:b:=deleteBook(T:String):False

:Library

3:b:=deleteBook(T:String):False

:DatabaseSupport

Usecase: Add Book
Actor: Staff Member (or Admin)
PreCondition: Log On

Main Success Scenario:
1. Staff Member provides the title of the book.
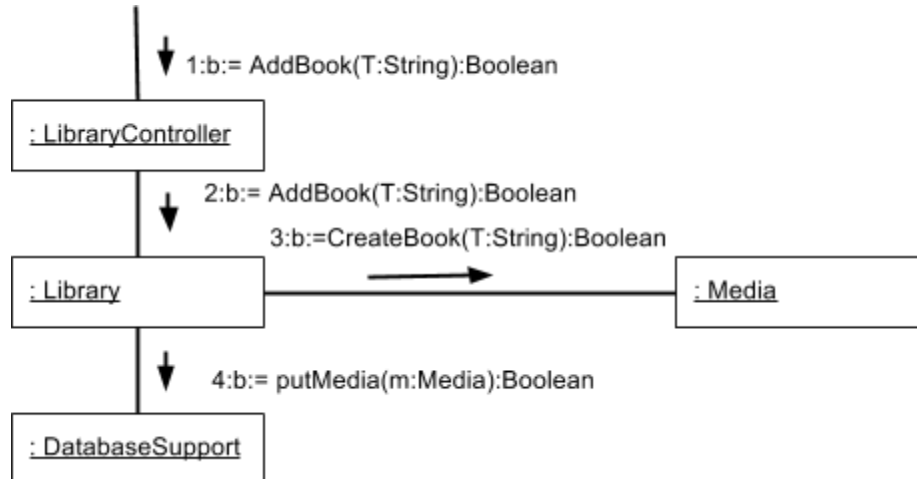2. System returns the book was added successfully.
Extensions:
    1a. The book has already been added
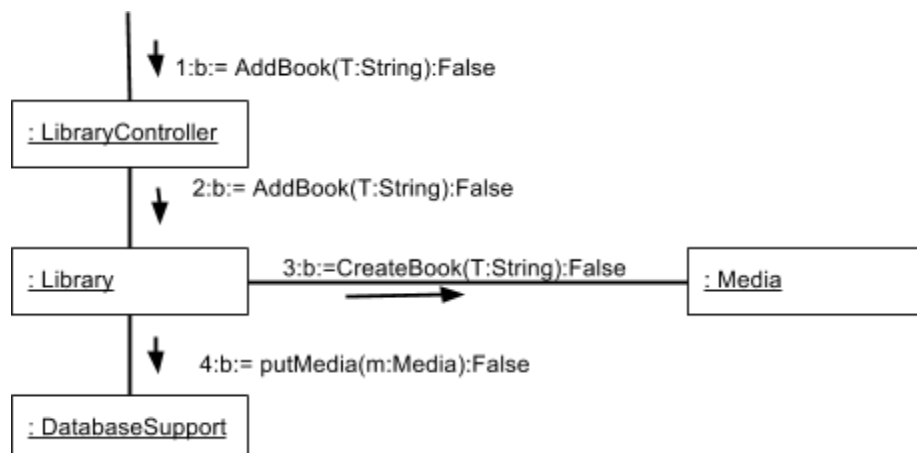   -System indicates the operation failed.

Information Experts:
    The information expert for add book is library. Library knows books.

Interaction Diagram Fragment:

1:b:= AddBook(T:String):Boolean

: LibraryController

2:b:= AddBook(T:String):Boolean
3:b:=CreateBook(T:String):Boolean

: Library   →   : Media

4:b:= putMedia(m:Media):Boolean

: DatabaseSupport

Extension 1a:

1:b:= AddBook(T:String):False

: LibraryController

2:b:= AddBook(T:String):False

: Library   3:b:=CreateBook(T:String):False   : Media

4:b:= putMedia(m:Media):False

: DatabaseSupport

Usecase: Edit Book
Actor: Staff Member (or Admin)
PreCondition: Log On

Main Success Scenario:
1. Staff Member provides title of book, field to be edited and what the field should be changed to.
2. System prints "<Book title>: <field> changed from <prev value> to <current value>" and returns that the book information was successfully updated
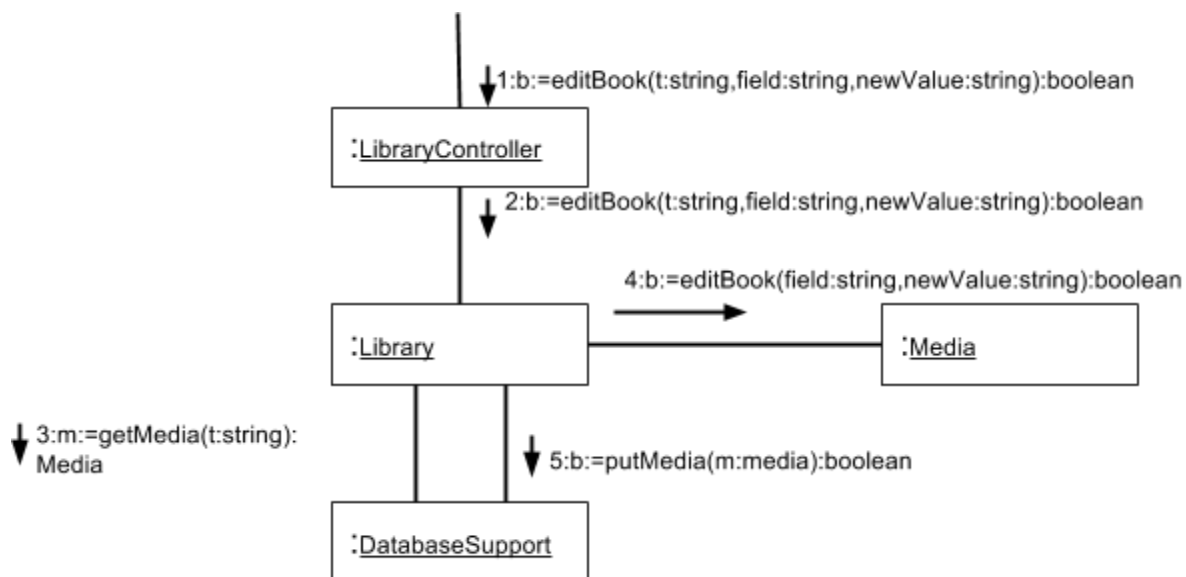
Extensions:
1a. The book does not exist
     i.   System indicates the operation failed
1b. Field does not exist
     i.   System indicates the operation failed, prints list of valid fields
1c. Field revision not valid
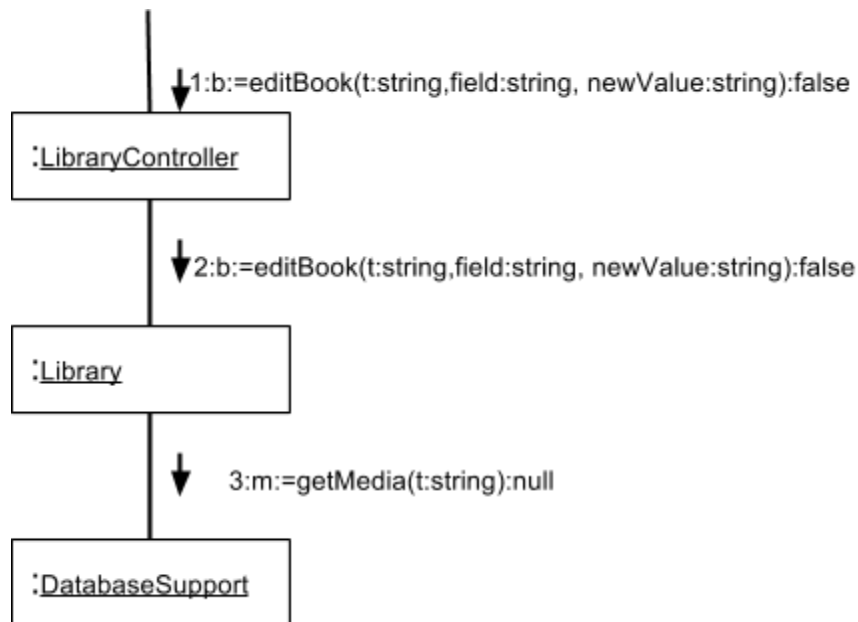   i.   System indicates the operation failed

Information Experts:
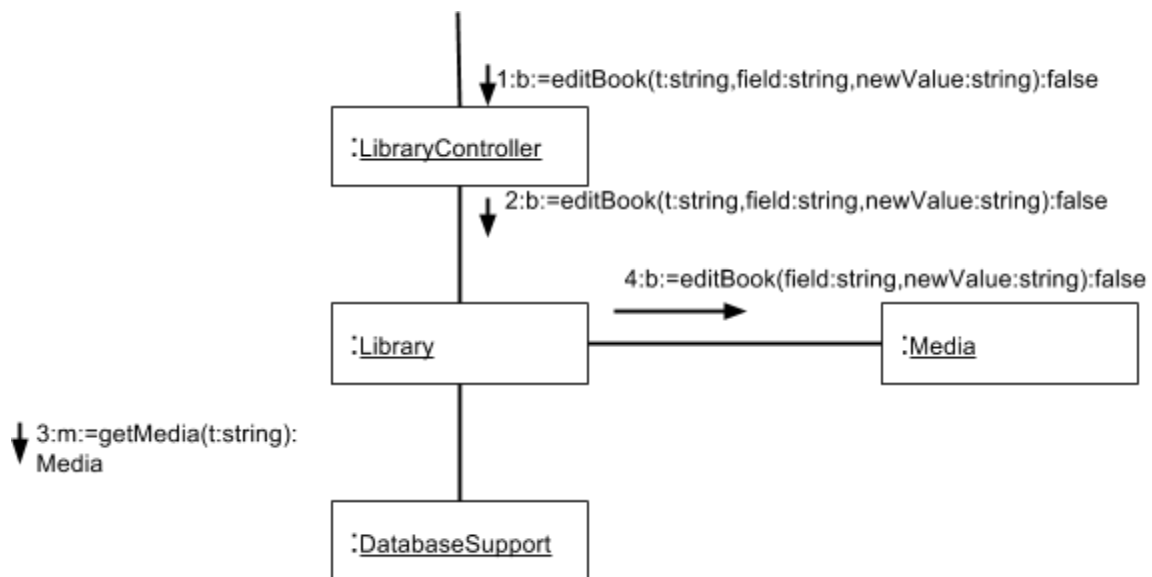   The information expert for edit book is library. Library knows books.

Interaction Diagram Fragment:

Extension 1a:

1:b:=editBook(t:string,field:string, newValue:string):false

:LibraryController

2:b:=editBook(t:string,field:string, newValue:string):false

:Library

3:m:=getMedia(t:string):null

:DatabaseSupport

Extension 1b:

1:b:=editBook(t:string,field:string,newValue:string):false

:LibraryController

2:b:=editBook(t:string,field:string,newValue:string):false

4:b:=editBook(field:string,newValue:string):false

:Library

:Media

3:m:=getMedia(t:string):
Media

:DatabaseSupport

Extension 1c:

1:b:=editBook(t:string,field:string,newValue:string):false

:LibraryController

2:b:=editBook(t:string,field:string,newValue:string):false

4:b:=editBook(field:string,newValue:string):false

:Library

:Media

3:m:=getMedia(t:string):
Media

:DatabaseSupport