Iteration 3

- Add Movie
- delete movie
- edit movie
  - edit movie title
  - edit genre
- add cd
- delete cd
- edit cd
  - edit cd title
  - edit cd genre

Use case: Delete Movie
Actor: Staff Member (or Admin)
Precondition: Log On

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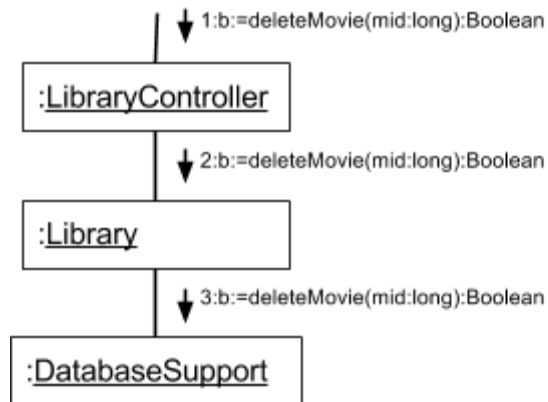2. System returns the movie was deleted successfully
Extensions:
      1a. The movie does not exist
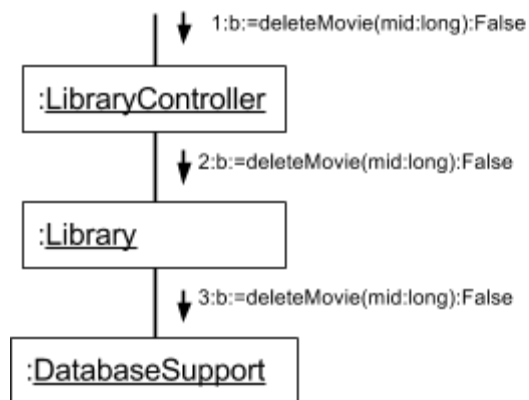   -System indicates the operation failed.

Information Experts:
      The information expert for delete movie is library. Library knows movies.

Interaction Diagram Fragment:

Extension 1a:

Use case: Add Movie
Actor: Staff Member (or Admin)
Precondition: Log On

Main Success Scenario:
1. Staff Member provides the title of the movie.
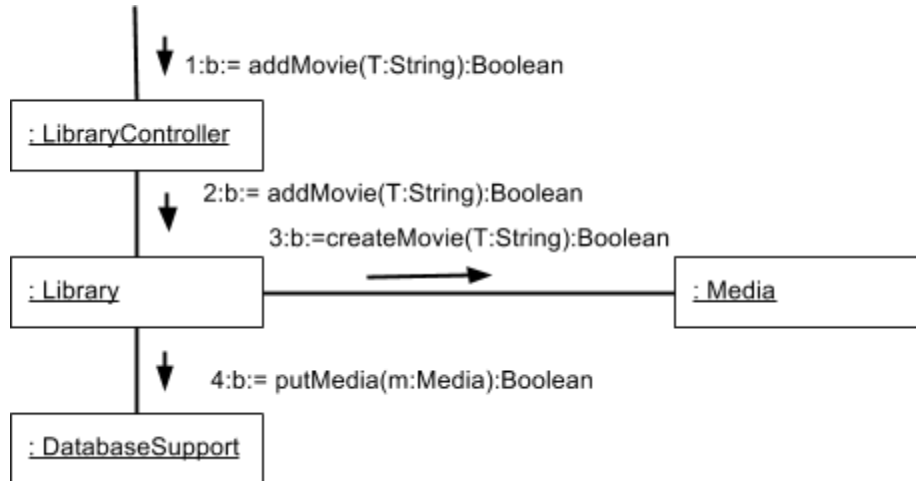2. System returns the movie was added successfully.

Extensions:
      1a. The movie has already been added
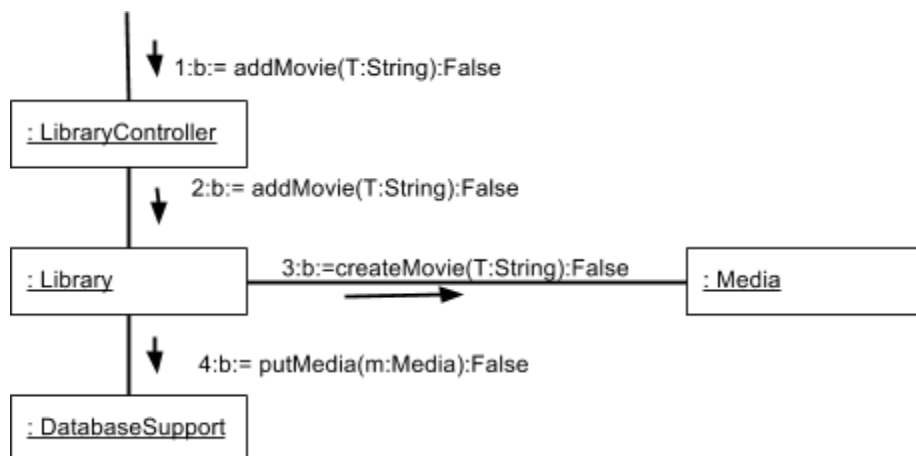   -System indicates the operation failed.

Information Experts:
      The information expert for add movie is library. Library knows movies.

Interaction Diagram Fragment:

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

: LibraryController

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

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

: Library → : Media

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

: DatabaseSupport

Extension 1a:

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

: LibraryController

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

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

: Library → : Media

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

: DatabaseSupport

Use case: Edit Movie Title
Actor: Staff Member (or Admin)
Precondition: Log On

Main Success Scenario:
1. Staff Member provides ID of the movie, field to be edited and what the field should be changed to.
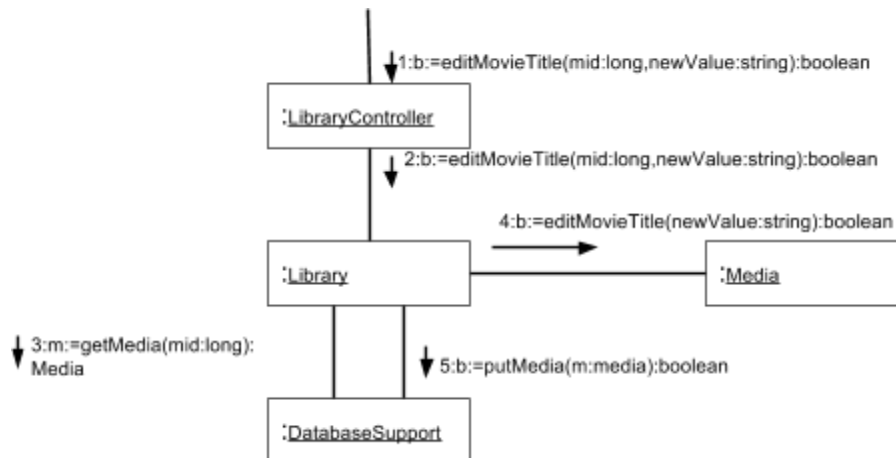2. System indicates that the movie information was successfully updated

Extensions:
    1a. The movie ID does not exist
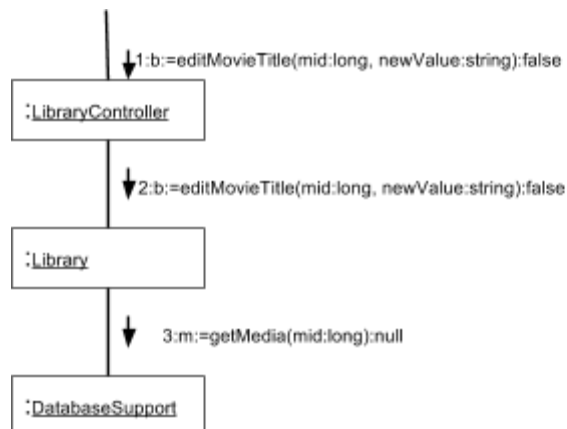   i. System indicates the operation failed

Information Experts:
        The information expert for edit movie is library. Library knows movies.

Interaction Diagram Fragment:

Extension 1a:

Use case: Edit Movie Genre
Actor: Staff Member (or Admin)
Precondition: Log On

Main Success Scenario:
3. Staff Member provides ID of the movie, field to be edited and what the field should be changed to.
4. System indicates that the movie information was successfully updated
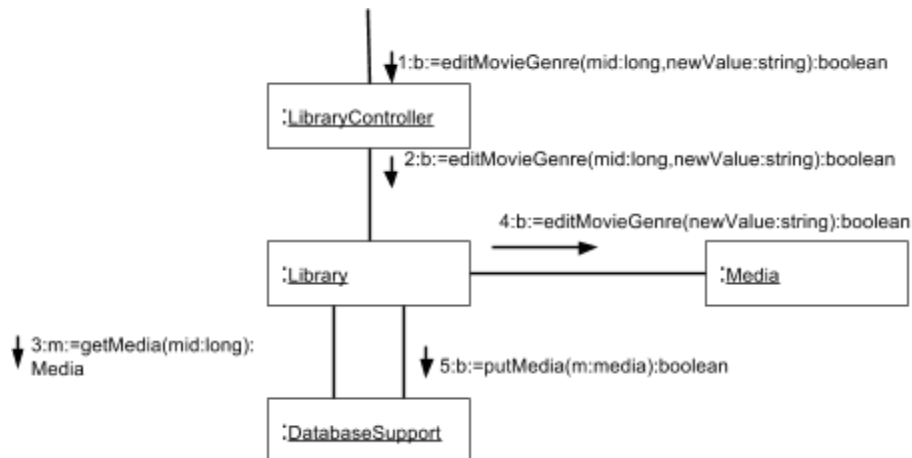
Extensions:
1b. The movie ID does not exist
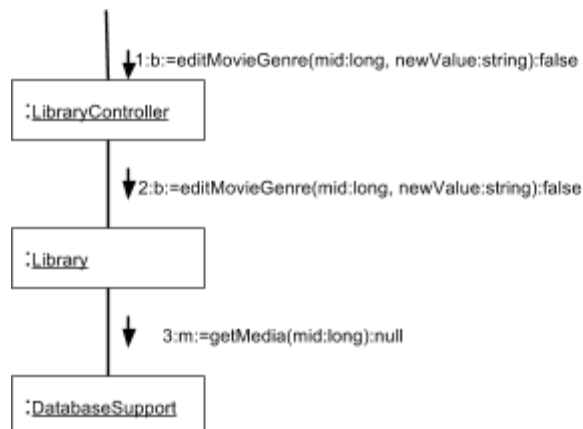   i. System indicates the operation failed

Information Experts:
      The information expert for edit movie is library. Library knows movies.

Interaction Diagram Fragment:

Extension 1a:

Use case: Delete CD
Actor: Staff Member (or Admin)
Precondition: Log On

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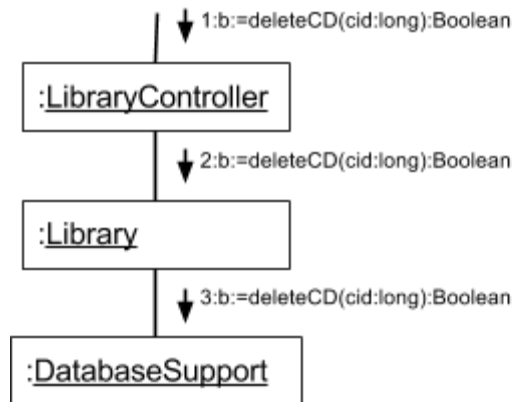   2. System returns the CD was deleted successfully
Extensions:
        1a. The CD does not exist
            -System indicates the operation failed.

Information Experts:
        The information expert for delete CD is library. Library knows CDs.

Interaction Diagram Fragment:

1:b:=deleteCD(cid:long):Boolean

:LibraryController

2:b:=deleteCD(cid:long):Boolean

:Library

3:b:=deleteCD(cid:long):Boolean

:DatabaseSupport

Extension 1a:

1:b:=deleteCD(cid:long):False

:LibraryController

2:b:=deleteCD(cid:long):False

:Library

3:b:=deleteCD(cid:long):False

:DatabaseSupport

Use case: Add CD
Actor: Staff Member (or Admin)
Precondition: Log On

Main Success Scenario:
1. Staff Member provides the title of the CD.
2. System returns the CD was added successfully.
Extensions:
       1a. The CD has already been added
           -System indicates the operation failed.
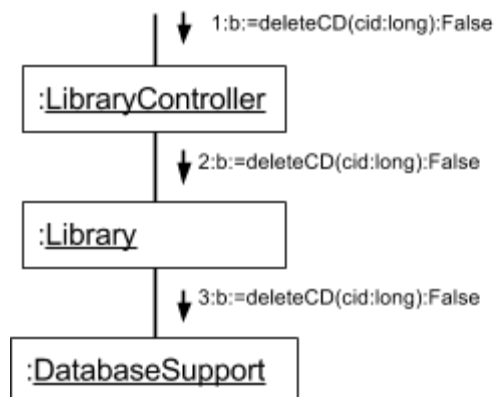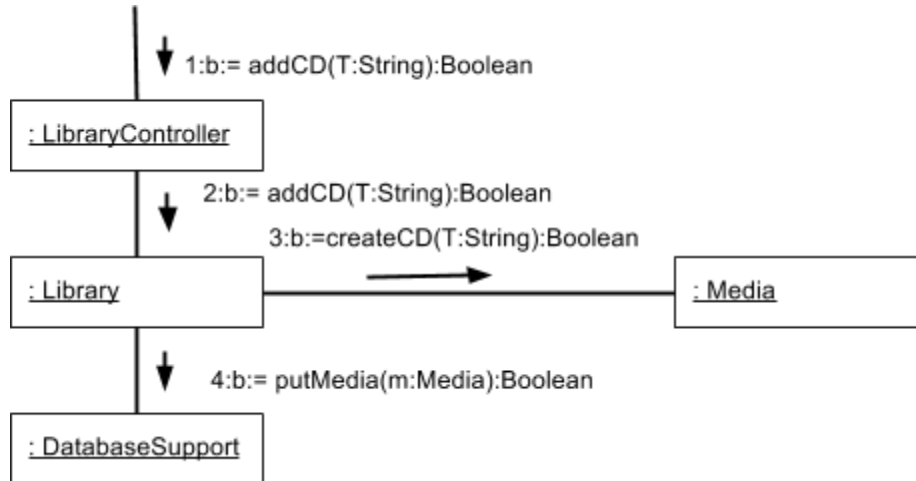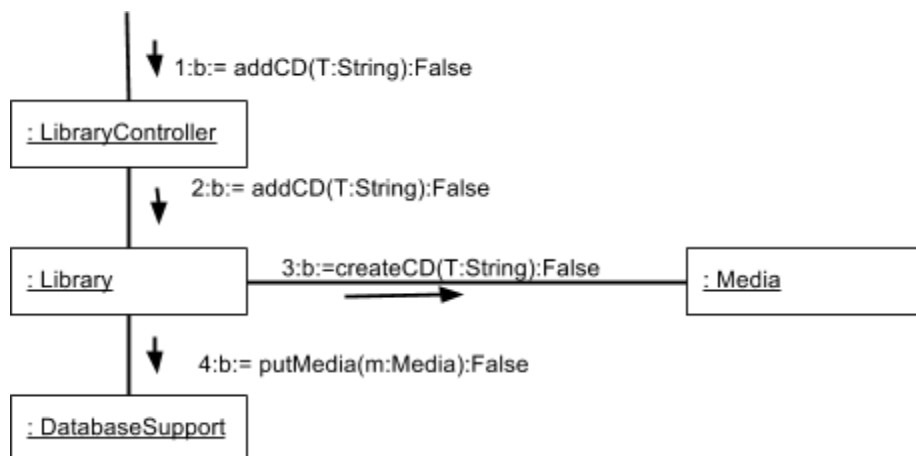
Information Experts:
       The information expert for add CD is library. Library knows CDs.

Interaction Diagram Fragment:

```
        ↓ 1:b:= addCD(T:String):Boolean
┌──────────────────────┐
│ : LibraryController   │
└──────────────────────┘
          ↓   2:b:= addCD(T:String):Boolean

              3:b:=createCD(T:String):Boolean
┌──────────────┐        ──────────►        ┌──────────┐
│ : Library     │                          │ : Media   │
└──────────────┘                          └──────────┘
          ↓   4:b:= putMedia(m:Media):Boolean
┌──────────────────────┐
│ : DatabaseSupport     │
└──────────────────────┘
```

Extension 1a:

```
        ↓ 1:b:= addCD(T:String):False
┌──────────────────────┐
│ : LibraryController   │
└──────────────────────┘
          ↓   2:b:= addCD(T:String):False

              3:b:=createCD(T:String):False
┌──────────────┐                           ┌──────────┐
│ : Library     │        ──────────►       │ : Media   │
└──────────────┘                           └──────────┘
          ↓   4:b:= putMedia(m:Media):False
┌──────────────────────┐
│ : DatabaseSupport     │
└──────────────────────┘
```

Use case: Edit CD Title
Actor: Staff Member (or Admin)
Precondition: Log On

Main Success Scenario:
1. Staff Member provides ID of the movie, field to be edited and what the field should be changed to.
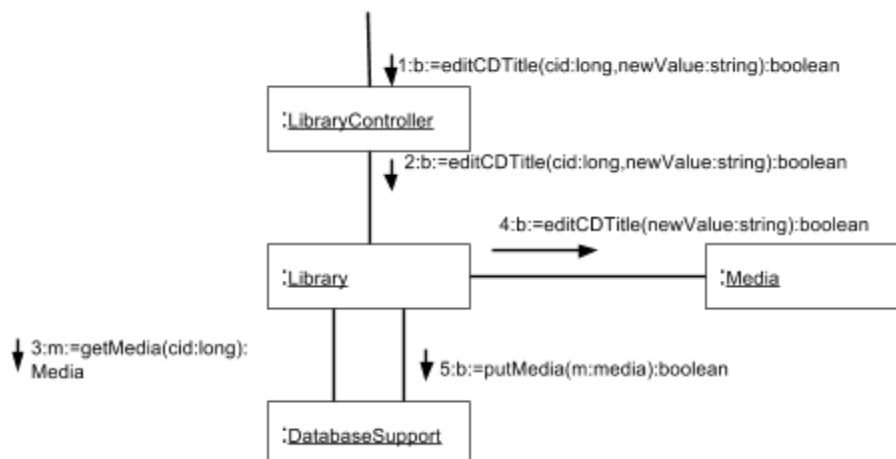2. System indicates that the CD information was successfully updated

Extensions:
       1a. The movie ID does not exist
              -System indicates the operation failed
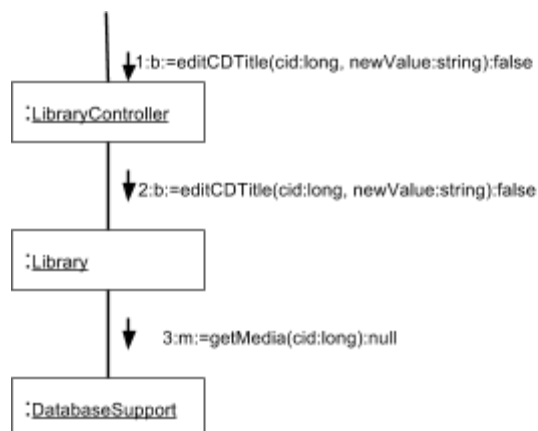
Information Experts:
       The information expert for edit movie is library. Library knows CDs.

Interaction Diagram Fragment:

Extension 1a:

Use case: Edit CD Genre
Actor: Staff Member (or Admin)
Precondition: Log On

Main Success Scenario:
5. Staff Member provides ID of the CD, field to be edited and what the field should be changed to.
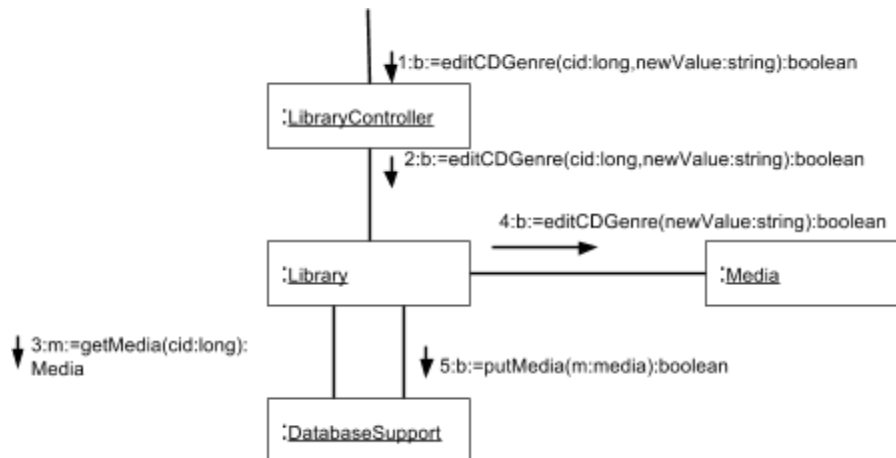6. System indicates that the movie information was successfully updated

Extensions:
1c. The movie ID does not exist
   i. System indicates the operation failed

Information Experts:
   The information expert for edit movie is library. Library knows CDs.

Interaction Diagram Fragment:

Extension 1a: