SOFTWARE ENGINEERING SCHEDULE-ANALYSIS DOCUMENT

# Requirements

## Functional requirements:

**Critical priority:**

1. As a librarian, I want to be able to add multimedia items to the system, so library users can borrow them.

2. As a library manager, I want to be able to add librarians to the system, so they can start using it once they are hired.

3. As a librarian, I want to add a library user to the system, so the librarians can lend multimedia items to them.

4. As a librarian, I want to lend a specific item of multimedia to a specific library user for 14 days, so they can borrow it.

**High priority:**

5. As a library manager, I want to be able to remove librarians from the system, so they cannot access it anymore if they are fired or gone.

6. As a librarian, I want to be able to remove multimedia items from the system, so multimedia items will not belong to the system anymore.

7. Both as a librarian and a library user, I want to be able to search for specific multimedia items, so I can check if the desired item is available in the library.

8. As a library user, I want to see the items I have borrowed and their information, including the remaining time, so I know when I have to return them.

9. As a librarian, I want to see the active fines of the library users when they try to borrow a multimedia item, so I can make sure that no one can borrow any items if they have a fine.

10. As a librarian, I want to be able to process a fine, so it can be removed once the library user has paid.

**Low priority:**

12. As a library user, I want to be able to see my previous borrowed multimedia items and previous fines and reviews so I can keep track of them.

13. As a librarian, I want to be able to see library users previously borrowed multimedia items, previous fines, and reviews so I can keep track of them.

14. As a library user, I want to be able to extend my borrowing of a specific item up to 3 times, so I can return the item later than it was supposed to.

15. As a library user, I want to be notified of the amount of money I must pay when the time of one of my borrowings has passed, so I know I must go to the library to pay the fine.

16. As a library user, I want to be notified 24 hours before my borrowing expires so I can return the media item or request an extension.

17. As a library user, I want to be able to reserve a multimedia item for 24 hours, so I can make sure that no one else will borrow it before me.

18. As a library user, I want to be able to give a review of the multimedia items I have rented, so other users will be able to read them.

19. As a librarian, I want to be able to delete a specific review, so I can make sure there are no inappropriate or offensive reviews.

11. As a library user, if I try to reserve a book that is not available, I want to be notified when it becomes available, so I know I can borrow it then.

## Non-functional requirements

The system will be a client-server system.

The system will be implemented in English.

All the registered data will have permanency within the system unless it is specifically removed by a librarian or manager.

The system will include a user guide to document how to use the user interface.

# Use case diagram

* Manage multimedia items librarian (Requirements: )
* Manage librarians- manager (Requirements:)
* Extend a media item -library user (Requirements:)
* Lend a media item- librarian (Requirements:)
* Search multimedia items- librarian/library users (Requirements:)
* See information- librarian/library user (Requirements:)
* Manage fine- librarian/time (Requirements:)
* Write reviews- library user(Requirements
* Delete review library user /librarian
* Reserve multimedia item-library user (Requirements:)
* See notification library-user(Requirements:)

# Use case description

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| --- | --- |
| **Use case** |  |
| **Summary** |  |
| **Actor** |  |
| **Precondition** |  |
| **Postcondition** |  |
| **Base sequence** |  |
| **Exception sequence** |  |
| **Nte** |  |

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| --- | --- |
| **Use case** | **Requirements associated to it** |
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# Domain model

# Activity diagrams