Library Management System

Use-Case Model

Version 1.0

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 20/03/2018 | 1.0 | First attempt to write the Use-Case Model | Boros Hanniel |
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# Use-Cases Identification

Actors of the Library Management System:

Library members (customers),

Library Admin (Library Administration).

Use cases of a library customer:

- update personal profile

- view personal profile

- View issued books

- browse library/search a book (based on criteria)

Use Cases of the Admin (besides the above mentioned ones):

- add/register new member

- update member profile

- delete member profile

- view member profile

- Ban member

- Add new book

- Edit information about new book

- Issue a book to a member

- Resubmit book from a member

- Browse library/search a book (based on criteria)

Some examples of relevant use cases:

**Use case**: add a new customer (library member)

**Level**: user-goal level

**Primary actor**: Admin

**Main success scenario**:

Admin selects from menu “Add/Register new member”.

Admin enters client’s personal information.

Admin selects “Finish Registration” button.

Admin waits for a short period of time, while the database is updating.

Admin will be notified about the success of the operation.

**Extensions**:

Alternate scenario for failure:

If connection to database fails for some particular reasons, or an Exception is encountered, the information may not be successful.

**Use case**: add new book

**Level**: sub-function

**Primary actor**: Admin

**Main success scenario**:

Admin selects from menu “Add/Register new book”.

Admin enters book’s information.

Admin selects “Finish Registration” button.

Admin waits for a short period of time, while the database is updating.

Admin will be notified about the success of the operation.

**Extensions**:

Alternate scenario for failure:

If connection to database fails for some particular reasons, or an Exception is encountered, the operation may not be successful.

**Use case**: View issued books

**Level**: user-goal level

**Primary actor**: Library member (customer)

**Main success scenario**:

User selects from menu “View issued books”.

User waits for a short period of time, while the database is updating.

User will be shown the list of issued books.

**Extensions**:

Alternate scenario for failure:

If connection to database fails for some particular reasons, or an Exception is encountered, the operation may not be successful.

# UML Use-Case Diagrams

