Requirement Analysis

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# Use case diagram

## C:\Users\Owner\AppData\Local\Microsoft\Windows\INetCacheContent.Word\UseCaseDiagram.pngGeneral use case diagram

Figure : Use case diagram (See PNG image file for high resolution)

Explanation:

Composite use case:

* Log in
* Register new Account
* CRUD Borrower Card
* CRUD Books
* Maintain Users and Roles

## Decomposed use case diagram \*

\* See the images files.

# Use case specification \*

\* See individual files for each use case.

# Glossary

## General

- Book: Contents of people’s work written/printed in papers.

- Library: A place where people can borrow books.

- Librarian: A person who manages transactions in a library.

- Borrower: People who go to library to borrow books.

## Specific

- Account: To use the library’s service, everybody need an account for identifying self.

- Borrower card: A card needed for borrower to be able to borrow books.

- Book entry: Books with the same content are considered an only book entry.

- Book copies: Copies of books with the same content.

- Expired card: Borrower card that is no longer usable due to expired date.

- Loan period: The period of time where borrower can keep the book. They will have to return the book within this loan period.

- Overdue unreturned book: Book that is not return in the loan period.

# Supplementary specification

## Functionality

- The information is refreshed at regular intervals depending upon whether some updates have occurred or not.

## Performance

- The software shall respond to the user in not less than two seconds from the time of the request submittal.

- The software shall be allowed to take more time when doing large processing jobs.

- Responses to view information shall take no longer than 3 seconds to appear on the screen.

## Usability

- The system is user friendly

- Online helps for users to use the system easily.

## Reliability

- Available 100%.

- Operational 24/7.

- Be able to recover within an hour in case of failure.