BBM487 -Software Engineering Laboratory

Library Book Loan System
Vision

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1.   Introduction

This document will describe the software's vision attributes.It will cover the problem,scope,project environment and information about stakeholders.

2.   Positioning

2.1   Problem Statement

[Provide a statement summarizing the problem being solved by this project. The following format may be used:]

The problem of	Managing common library operations in an organized way
affects	Library users and library manager
the impact of which is	Making book loaning and other operations fast and simple
a successful solution would be	A user friendly, simple interface and handling big data to provide fast access to books and other needs.

2.2   Product Position Statement

For	Librarians, people using the library
Who	People who need to loan a book from library.
The (product name)	Library Book Loan System
That	Has simple interface, short response time and tracks book info
Unlike	Traditional human-centered library systems
Our product	Cross platform desktop application that satisfies needs of both users and librarians.

3.   Stakeholder Descriptions
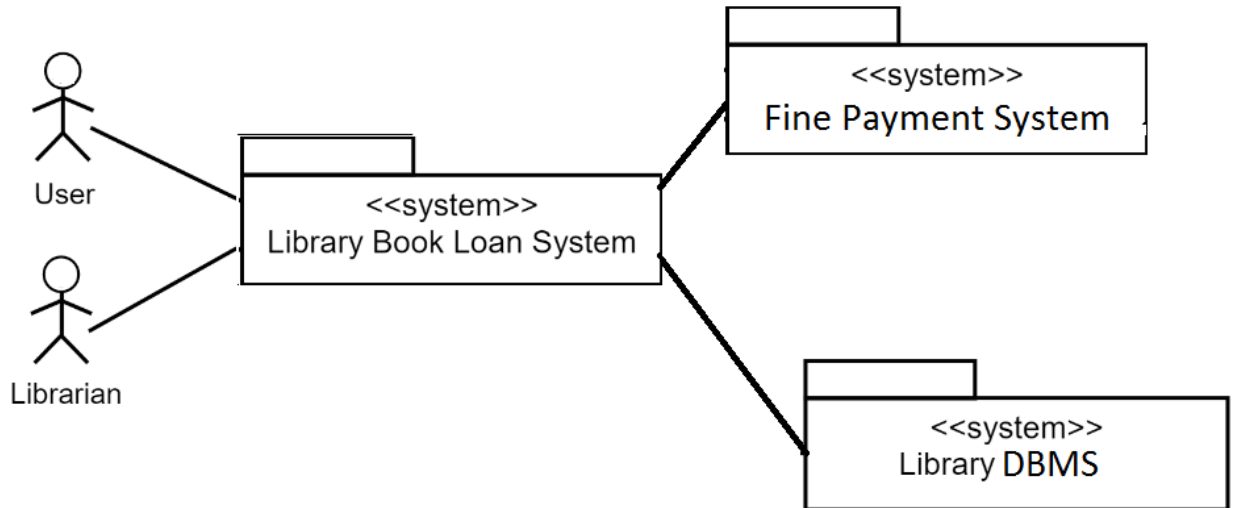
3.1 Stakeholder Summary

Name	Description	Responsibilities
Project Development Team	People who managed the software process and developed the project.	• Ensures that the system will be maintainable • Monitors the product's condition and develops improvements.
Library User	A person using library to borrow books.	• Search for books • Loan Books • Tracks info about loaned or available books. • Refund the book.
Guest User	A person using library to search books.	• Search for books
Library Manager	A person responsible for organization of library and software.	• Add, remove books • Track info of books • Verify new user's memberships. • Remove user memberships.

3.2 User Environment

The system environment has 4 types of users. Each has its rights and responsibilities. Since the learning curve of the software is almost zero, users just need to have basic computer knowledge to use efficiently.

The software is cross-platform desktop application. Since it is using a cloud based database, if needed, we can use it to develop a web mirror to this desktop software. This way, people can search or operate some functions anywhere, not just the library place.

Context Diagram of Library Book Loan System

4.   Product Overview

4.1   Needs and Features

Need	Priority	Features	Planned Release
Login	1	User login to system	At release 1
Logout	1	User logout from system	At release 1
Manipulate Books	2	Add,remove,update book records	At release 2
Manipulate User Accounts	2	Add,remove,update user accounts	At release 1
Search for books	2	Search for books with given criteria	At release 2
Self check-out	3	User self check-out operation	At release 2
View my books	3	List user's loaned books and book history	At release 2
Self return	3	User self return operation	At release 2
Issue late fine	3	Payment report for late deliveries	At release 3
Pay fine	3	Payment operation for fines.	At release 3

Add name to book waiting list.	2	Add name to queue for not available books	At release 3
Notify of book being available	2	Notify for a book becoming available to loan.	At release 3

5. Other Product Requirements

Requirement	Priority	Planned Release
Secure and portable database	3	At release 2
Cross-platform	1	At release 1
User Manual	3	At release 3
Responsive and stable program structure	2	At release 2