

**BBM 487 – SOFTWARE ENGINEERING LABORATORY**

**LIBRARY BOOK LOAN SYSTEM**

**PROJECT VISION**

**GROUP II**

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Library Book Loan System

Vision

# Introduction

This is the vision document of Library Book Loan System. Like any other vision document, this document will cover the problem and vision statement including project background, stakeholders, requirements and project scope.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | Loaning book from library. |
| affects | Visitors, members and the employees of the library. |
| the impact of which is | Difficulty of managing books and members of the library. |
| a successful solution would be | A book loan system that makes it easier to loan and track books for both members and employers of the library. |

## Product Position Statement

|  |  |
| --- | --- |
| For | Members and the employees of the library. |
| Who | Loans and monitors the books in the library. |
| The (Book Loan System) | is a Desktop application for educational purposes. |
| That | Makes monitoring and loaning of books easier. |
| Unlike | existing manual in-person library systems |
| Our product | will be a desktop application that is easier to control for unexperienced users. |

# 

# Stakeholder Descriptions

## Stakeholder Summary

| **Name** | **Description** | **Responsibilities** |
| --- | --- | --- |
| Librarian (User) | Librarians are the key users of the system. | The librarians can add, delete, view and update books and users in the system. |
| Member (User) | Member is a registered user who can loan books from the library. | They can search, loan and return books. If they do not return the books in time, they pay fines. They can also see the books they loaned. |
| Visitor (User) | Visitor is an unregistered user. The operations they can do is limited. | They can only search books. |
| Project Manager | Project manager schedules the project tasks and ensures that the project is going according to the plan. | Project manager is responsible for ensuring that everyone on the team knows and executes his or her role, feels empowered and supported in the role, knows the roles of the other team members and acts upon the belief that those roles will be performed. |
| Software Developer | Developer is the person who is assigned to implement the project by using proper programming language. | Writing high-quality code to program complete applications on schedule. |
| Tester | Tester is the person who ensures that the program is reliable in different cases. | To read all the documents and understand what needs to be tested.  Develop test cases and prioritize testing activities.  Execute all the test cases and report defects, define severity and priority for each defect. |

## 

## User Environment

The users of the system are visitors, members and librarians of the library. The users are assumed to have basic knowledge of the computers. The proper user interface, user’s manual should be sufficient to educate the users on how to use the system without any problems. Finished product will be available only as a desktop application for PC’s.

# Product Overview

## Needs and Features

|  |  |  |  |
| --- | --- | --- | --- |
| **Need** | **Priority** | **Features** | **Planned Release** |
| Login | High | Enables members to login to the system. | At Release 1 |
| Logout | Medium | Enables members to logout from the system. | At Release 1 |
| Manipulate Book | High | Enables librarians to add, update and delete books. | At Release 2 |
| Manipulate User | High | Enables librarians to add, update and delete users. | At Release 2 |
| Search for Books | Medium | Enables users to search for books. | At Release 2 |
| View my books | Medium | Enables users to view their books. | At Release 2 |
| Self check-out | Medium | Enables members to check-out books. | At Release 2 |
| Self return | Medium | Enables members to return books. | At Release 2 |
| Issue late fine | Medium | Determines which members should be fined for the late delivery of the books. | At Release 3 |
| Pay fine | Medium | Enables members to pay fine. | At Release 3 |
| Add name to book waiting list | Low | Enables members to queue for currently not available books. | At Release 3 |
| Notify of book being available | Low | Notifies members when the books they wanted to loan becomes available. | At Release 3 |

# Other Product Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement** | **Priority** | **Planned Release** |
| Program must be stable | High | Through the project |
| Every interaction within the program must be responsive | High | Through the project |
| Basic user’s manual must be available | Low | At Release 3 |
| Program must be able to run on different operating systems. | Medium | At Release 3 |