



HACETTEPE UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING
BBM 487:SOFTWARE ENGINEERING LABORATORY

Group Number:5

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Library Book Loan System	Grup 5
Vision	Date: <14/03/2017>

<Library Book Loan System> Vision

1. Introduction

Managing a library system manually is time-consuming and difficult to control, so a web-based library system that includes a bar code system has been created. This system is thought to be more effective and efficient than the manual system.

2. Positioning

Hacettepe University Library Administration and its library system.

2.1 Problem Statement

The problem of	User can searching, reserving, following easily and learning Accessibility status of the book practically with this system.
affects	Librarians, Faculty Members, Students, Guest.
the impact of which is	For librarians , control and manage the books easily. For students and faculty members reserving and borrowing books easily. Helpful for guests searching operation.
a successful solution would be	The stages are followed respectively: Firstly, the project requirements identified correctly, planning and design processes' complete rightly and finally doing coding process.

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2.2 Product Position Statement

For	Librarians, Faculty Members, Students, Guest.
Who	Librarian
The (product name)	Web based library system
That	This system should be preferred because secure,economic,useful for the user ,it is developed in such a way that the system is easy to use by identifying the requirements correctly.
Unlike	Our alternative primary competitive is packet programs for library system solutions.
Our product	is different from competitive programs ,because it created according to customers and stakeholders requirements.

3. Stakeholder Descriptions

3.1 Stakeholder Summary

Name	Description	Responsibilities
User: Librarian	Librarian is user that has authentication to manipulate books	Add, delete, update books in system.

Name	Description	Responsibilities
User: Customer	Customer is user that has permissions to if customer has account view self-account and take action for books	Take actions these search for books, view their books, add name to book waiting list.

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Name	Description	Responsibilities
User: Guest	Guest is user that has restricted permissions for operations.	Has limited access to the system.Only can search and view list books.

Name	Description	Responsibilities
Team: Project Manager	During the project process, manage all stages, people and product.	Provides communication between customer and team, determine task for other developers.

Name	Description	Responsibilities
Developer Team: Analyzer	Analyses given data.	Examines in detail the structure of the given data and tries to find patterns and relationships between parts of the data.

Name	Description	Responsibilities
Developer Team: Designer	Design system's interface and others.	Design system's architectural, interface, components and database.

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Name	Description	Responsibilities
Developer Team: Coder	Develop software system.	Coding, design and programming of computer software.

Name	Description	Responsibilities
Developer Team: Tester	Testing the system to control for working correctly.	Determine test conditions according to requirements' expected result ,prepare and apply test cases.Control the system works rightly.The results obtained and the faults detected are reported.

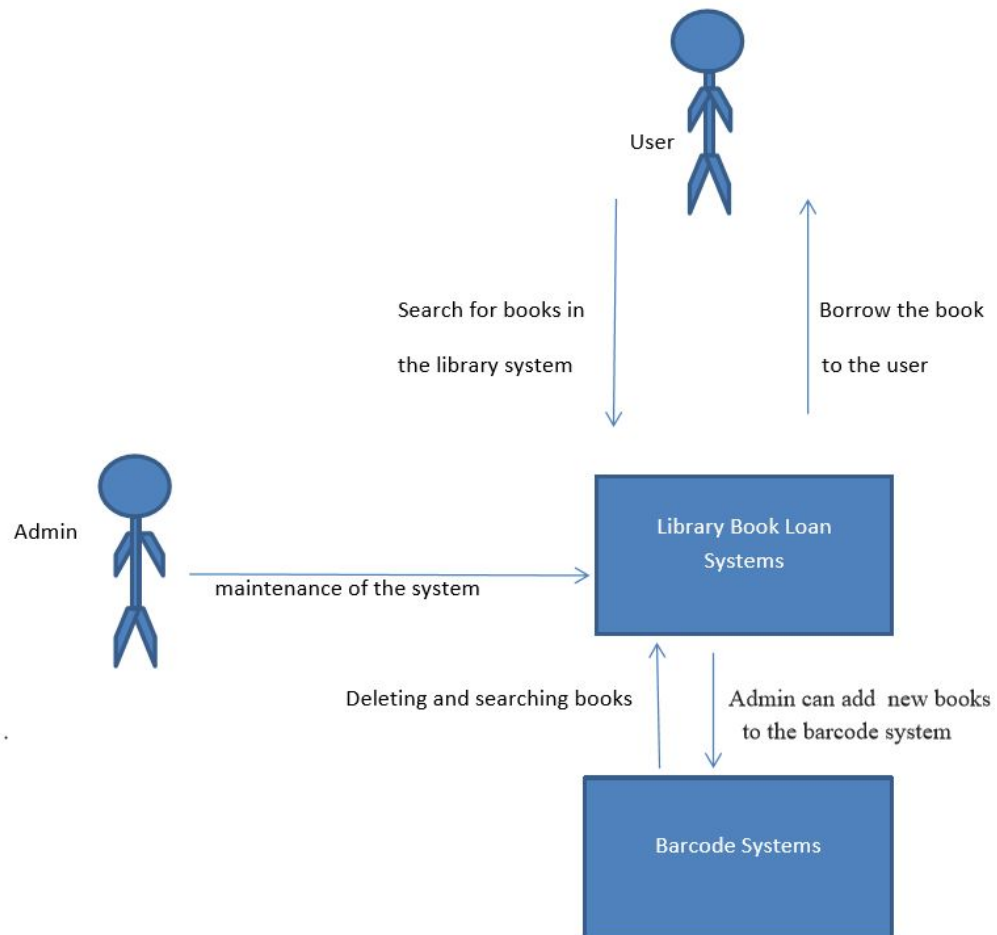
3.2 User Environment

This system has some different users which are librarian,students,guests.All of them has different permissions in this system,so they should see different interface to make their responsibilities.The coordination between them needs to be achieved properly.

This system is designed to be built on the web platform.Users login system from any web browser and use this system.Also some users which name is guests,they do not need login operation,they can see some parts of system by accessing web-based system. Access to the system can be provided from any internet environment.

Context Diagram:

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4. Product Overview

4.1 Needs and Features

Need	Priority	Features	Planned Release
Categorization	1	There are some processes about library database.	Architectural prototype (1,0)
Login	1	Login operation for the customers which has an account.	At Prototype
Logout	2	Logout operation for customers which has an account.	End of Project
Library member management	1	Manage the system for members' operation like: view, return, add...	Architectural prototype (1,0)
Searching book	1	Find and list books.	Architectural prototype (1,0)
Borrowing book	2	Borrow book if it is accessibility.	Deadline (1,1)
User Management	2	To control the delivery of books.	Deadline (1,1)
Book waiting list	2	Add books this list to be in the new when the books are accessible.	Deadline (1,1)

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5. Other Product Requirements

Requirement	Priority	Features	Planned Release
Scalable server system	1	It can provide services for multiple users	Architectural prototype (1,0)
Main system that based on web	1	Processing all operations online and connection from everywhere	Architectural prototype (1,0)
Security system	1	Keeping member's information and passwords, protecting archives safely.	Deadline (1,1)
Help status	2	Information that makes our operations easy	Deadline (1,1)