

**System Requirements & Specifications**

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Public Library System

Table of Contents

[1. Introduction 4](#_Toc518486575)

[1.1 Purpose 4](#_Toc518486576)

[1.2 Product Scope 4](#_Toc518486577)

[1.3 Definitions, Acronyms, Abbreviations 4](#_Toc518486578)

[1.4 References 4](#_Toc518486579)

[1.5 Overview 4](#_Toc518486580)

[2. Overall Description 4](#_Toc518486581)

[2.1 Product Perspective 4](#_Toc518486582)

[2.2 Product Functions 4](#_Toc518486583)

[2.3 User Characteristics 4](#_Toc518486584)

[2.4 Constraints 4](#_Toc518486585)

[2.5 Assumptions 4](#_Toc518486586)

[3. External Interface Requirements 4](#_Toc518486587)

[3.1 User Interfaces 4](#_Toc518486588)

[3.2 Hardware Interfaces 4](#_Toc518486589)

[3.3 Software Interfaces 4](#_Toc518486590)

[3.4 Communication Interfaces 5](#_Toc518486591)

[4. System Features 5](#_Toc518486592)

[4.1 Feature 1 5](#_Toc518486593)

[4.2 Feature 2 5](#_Toc518486594)

[4.3 Feature 3 5](#_Toc518486595)

[4.4 Feature 4 5](#_Toc518486596)

[4.5 Feature 5 5](#_Toc518486597)

[5. Test 5](#_Toc518486598)

1. Introduction

## Purpose

The current library system has become outdated and underperforming. The web portal lacks section for book suggestions and library events. Book searching has limited options and can be made more user-friendly. A new system that is more efficient and has added features will be developed. This document will describe the overall design of a public library system. Including detail information on book characteristics needed for searching, and functions allocated to librarians, patrons, and vendors needed to maintain user and book records, lend books and other resources, and maintain the library catalogue.

## Product Scope

Separate web portals will be maintained for patrons, librarian/administrators, and vendors/suppliers, however all three will interact with the same database under varying levels of access.

Patrons will be able to:

* Create new accounts
* Upload residential verification needed for account creation
* Perform book and other media searches
* Make reservations
* Access online content
* Access library partner’s resources
* Pay late fines
* Prepay printing management
* Receive notifications when resources become available

Librarians and Administrators will be able to:

* Add new users to the database
* Order books
* Receive payments
* Update database

Vendors and Suppliers will be able to:

* Receive purchase requests
* Update delivery status
* Send purchase estimates and bills.

## 

## Definitions, Acronyms, Abbreviations

|  |  |
| --- | --- |
| Term | Definition |
| Patron | Library card holder that makes use of library resources |
| Vendor | Sells books and other media as requested by librarian |
| Librarian | Manages patron’s accounts, maintains catalogue of media resources |
| Administrator | Makes changes to system, performs updates, adds features |
| PHP | Web Server language used to validate data, and interact with database |
| SQL | Language used to manipulate database |
| HTML | Scripting language used to create framework of webpages |

## References

<Fill in info>

## Overview

This document describes the different entities needed in the library system. It will also describe the constraints and dependencies. Case studies will be used to illustrate the functional requirements of the system.

1. Overall Description

## Product Perspective

<Fill in Info>

## Product Functions

<Fill in info>

## User Characteristics

<Fill in Info>

## Constraints

<Fill in info>

## Assumptions

<Fill in info>

1. External Interface Requirements

## User Interfaces

<Fill in Info>

## Hardware Interfaces

<Fill in info>

## Software Interfaces

<Fill in Info>

## Communication Interfaces

<Fill in info>

1. System Features

## Feature 1

<Fill in Info>

## Feature 2

<Fill in info>

## Feature 3

<Fill in Info>

## Feature 4

<Fill in info>

## Feature 5

<Fill in info>