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Library Management System
Vision

Version 1.0

Revision History

Date	Version	Description	Author
20/03/2018	1.0	First attempt to write the Vision document	Boros Hanniel

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Vision

1.   Introduction

The purpose of this document is to collect, analyze and define high-level needs and features of the **Library Management System**. It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist.

This document includes project background, list of possible users, stakeholders, occurring risks, assumptions and constraints and it should outline a general view about the scope of the application to be developed.

The Vision document is supposed to set a base for designing the software mentioned above but it may be changed over time as new features or expectations appear.

The details of how the specified system fulfills these needs are detailed in the use-case and supplementary specifications.

In the followings it will be provided an overview of the entire document, including the purpose, scope, definitions, acronyms, abbreviations, and references.

1.1   Purpose

The purpose of this document is to collect, analyze and define high-level needs and features of the Library Management System. It focuses on the capabilities needed by the stakeholders and the target users and why these needs exist.

1.2   Scope

The scope of the Vision document is to define in a high-level view about the associated application (**Library Management System**). It not only influences the customer's decision to accept the proposed solution, but also provides a basic guideline to the developers on how to start and evaluate the process of implementation. As the software is constantly changing, the document will change together with it.

The Vision document provides a high-level basis for the more detailed technical requirements. It captures the "essence" of the envisaged solution in the form of high-level requirements and design constraints that give the reader an overview of the system to be developed from a behavioral requirements perspective. It provides input to the project-approval process and is, therefore, closely related to the Business case.

1.3   Definitions, Acronyms, and Abbreviations

All the definitions of all terms, acronyms, and abbreviations required to properly interpret the **Vision** document are provided in the project's Glossary. Please feel free to search based on your needs.

1.4   References

Other documents referenced in this (**Vision)** document.

Identify each document by title, report number if applicable, date, and publishing organization. Specify the sources from which the references can be obtained. This information may be provided by reference to an appendix or to another document.

1.5   Overview

In the followings the details of approaching the problem are presented.

2.   Positioning

2.1   Problem Statement

The problem being solved by this software is to facilitate a better and easier the library management process and as well the communication between a library's administration and the library's customers. This represents a modern solution to library management in oppose to the traditional one.

The problem of	The traditional library management is obsolete (outdated)
affects	The way library customers interact with the library
the impact of which is	There are misunderstandings, complications and many time the process takes much more time then normally is needed
a successful solution would be	To provide an application for the library customers and the library management in order to make easier the communication and as well reduce the operating time

2.2   Product Position Statement

Our product scope is to upgrade the traditional library management process. By doing this, the libraries will save time, money and effort on the long run, and also will encourage customers to become members, as the registering and management process is much easier and faster.

For	Library customers and library administration
Who	Are facing problems in administration of books
The LMS	is a desktop application
That	is aiming to shorten the administration process and ease up the management and communication process
Unlike	hand written customer papers and management sheets
Our product	will be faster, more secure and user-friendly

This application is of a great importance, since there are many libraries are becoming unvisited and ignored.

3. Stakeholder and User Descriptions

In the followings we will mention the stakeholders of the system and also the users who will interact with the developed software solution on a regular (depending on the user's interest, daily or weekly) basis.

[To effectively provide products and services that meet your stakeholders' and users' real needs, it is necessary to identify and involve all of the stakeholders as part of the Requirements Modeling process. You must also identify the users of the system and ensure that the stakeholder community adequately represents them. This section provides a profile of the stakeholders and users involved in the project, and the key problems that they perceive to be addressed by the proposed solution. It does not describe their specific requests or requirements as these are captured in a separate stakeholder requests artifact. Instead, it provides the background and justification for why the requirements are needed.]

3.1 Stakeholder Summary

Name	Description	Responsibilities
Local City Council	The Local City Council is responsible for the management of the software	–Ensures that the system will be maintainable. –Monitors the project's progress –Approves funding

3.2 User Summary

Name	Description	Responsibilities	Stakeholder
Library customer	Users from all categories and ages who are registered and approved members of the library	The customers responsibility is to provide valid information about himself (personal data) and to respect the due dates when they have to resubmit their book(s)	Library Administration
Library Administrations	The Library Administration is responsible for the management of customers and books	The Library Management's responsibility is to provide accurate and trustworthy information and data about the library (books, management, return dates, etc.).	Library Administration

3.3 User Environment

The target users of the Library Management System are the Library Administration and the library members (customers). Although Library Administration mostly involves a few people (librarians who work on a specific day/week), the library member category includes many people. They are part of several age categories, and as well backgrounds. We can mention that there is no restriction on the possible users of the application; the only one request is to be an accepted member of the library.

A task cycle depends usually can't take more than 3 to 5 minutes. Signing in should take less than 30 seconds (depending on the traffic and how many others are using the application at the same time), entering a new client providing all the information should not take more time than 5 minutes, and checking on a client's profile should also take less than the mentioned threshold time value. For customers, verifying personal information and available books, as well as current books issued to them should also fit in the above mentioned time interval.

The application is developed for a desktop platform, considering that most of the users already own a personal computer. There is no need for other application, to be able to run the Library management system.

4. Product Requirements

As I mentioned earlier (in the 3.3 User Environment section chapter), from hardware point of view, in order to be able to install and use the application, a desktop/laptop computer is required. The PC in case must have Windows Operating System. The books and the members are stored in a potentially huge database that can be accessed by valid users. So security is required because customer personal data is stored, and should be visible only to the user in case and the library administration. The Application has to be of a great performance, since our aim is to fasten and upgrade the traditional way of library management.