

System requirements specification

SRS

SRS for Exercise 1.4.3.2

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Table of contents

| | |
|----------------------------------|---|
| Introduction | 3 |
| Functional requirements..... | 3 |
| Non functional requirements..... | 4 |
| System requirements..... | 5 |

Introduction

The objective of this document is to establish the necessary requirements for the development of an application capable of managing the loan of 2 types of objects: music discs and books.

The application will be able to add new items of both types to the system.

Users who wish to access the application must log in with a username and password.

They can search for any object both by name and by type of object.

The application will have the ability to reserve objects in case they are not available at that time.

Each user can borrow up to 5 objects simultaneously.

The system will send to the email with which the password was registered in case the user does not remember it.

Functional requirements

- The system will control access and allow it only to authorized users. Users must log into the system with a username and password.
- The system will link to the database to search for music and books.
- A record of all items will be kept in order to establish availability.
- A record will be kept of all the objects that a user has on loan.
- The user will be notified in case of being in possession of 5 objects, of the limit of simultaneous loans (5 objects).
- The system will allow the elaboration and issuance of the regulatory report XX, according to the requirements established in the regulations and applicable law.
- Any data exchange via the internet carried out by the software will be done through the encrypted https protocol.
- The software can be used in Windows, Linux and OSX operating systems.
- The application must be usable without the need to install any additional software other than a web browser.

Non functional requirements

- The system must be able to operate adequately with up to 50,000 users with concurrent sessions.
- System access permissions can only be changed by the data access administrator.
- If security attacks or system breaches are identified, the system will not continue to operate until unlocked by a security administrator.
- The system should provide error messages that are informative and end-user oriented.
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- The system must have an online help module.
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- The web application must have a “Responsive” design in order to guarantee adequate visualization on multiple personal computers, tablet devices and smartphones.
- The system must have well-formed graphical interfaces.

System requirements

- The application will be installed on a single mid-range server.
- Music books and discs can be modified through a local database installed on site.
- The internet connection must be at least 50Gb symmetrical.