

Project Title: Library Website

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Category

Web application

Purpose

The purpose of developing this library website is to provide library services online to the authenticated users of the system. This will help the users to find their books easily and hold them and they don't have to present physically to the library for that. They could also be aware of a book that they need is available or not or in stock or not by not going physically to the library.

Scope

It will integrate the benefit of a physical library system with the convenience of a virtual library system. This will provide more flexibility to the users. It provides a means of the collaboration of real-life and virtual life experience and make life easier.

Introduction

This system will enable users to search for books based on their names. It will give an updated book list to its user. They can hold and issue books from this system and can see the submission deadline too here along with the issue date. Also, the number of available books will be shown here in specific so that they could know the demand for the book and choose based on their preference. Users can also see the penalty amount if they failed to submit the book on them on this website.

Advantages

Time and cost saving: People could save their time and extra cost by finding their desired books on this website and hold them instantly rather than going to the library physically. It saves their time.

Remove Traveling: It completely removes the need of traveling to a library hold a book or know that it's available in the library or not.

Functional Requirements

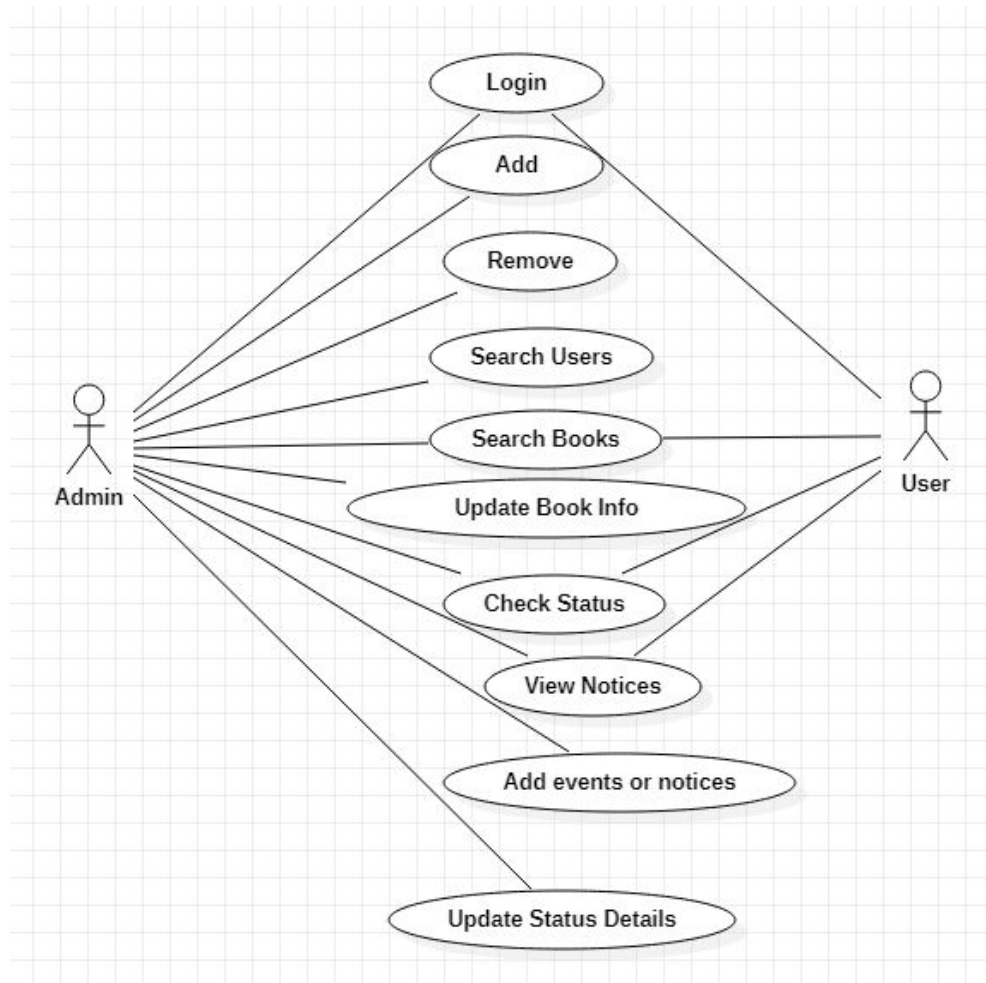
- User must authenticate him/herself to the system.
- The system sends use email/SMS if a user forgets his/her password.
- Users can change their passwords.
- Only an admin is allowed to reset the user's passwords.
- There must be a login process for the administrator and authorized users to avoid unauthorized access to the software.

- This system is a web application that provides an answer to the query of the customer very effectively.
- The user can query the books/support online with the help of this web application.
- Users will be able to see a list of books.
- Users can search the books by names.
- Search functionalities should support partial name matches and simple mistakes in spelling
- Only Admins can be able to add, remove or update information for a book
- Users will be able to see the issue detail of a book including all info like submission date, issue date, etc.

Non-Functional Requirements

- Operating System:
 - must be run on all operating system like Windows XP, Windows 7 and others
- Usability:
 - of the software must be easy so that user can use it without any difficulty
- Maintainability:
 - should build up in such a way that the classification of errors and maintenance of mechanism become easy.
- Flexibility:
 - must be flexible so that it can easily accept all changes that allow cost, time and experience.
- Security:
 - must be well secured. No one can use this application without a registered username and password.
- Some others:
 - Fast and easy to use
 - Accuracy
 - Capacity, current and forecast
 - Compliance
 - Documentation
 - Interoperability
 - Maintainability
 - Privacy
 - Reliability
 - Response time
 - Scalability
 - Stability

Use Case Diagram



Software Tools

Database Servers: SQL server

Client: Any web browser

Development Tools: Microsoft Visual Studio

Programming Language: Python, C#, .Net

Deployment

Operating System: Windows 10, Linux, UNIX

Hardware Specification

Processor: Intel Core i3

RAM: 4GB

Hard Disk: 1000 GB