MINI PROJECT

EEX3467 SOFTWARE ENGINEERING AND CONCEPTS

Library Management System

1. Introduction

Library History:

D.S. Senanayake Memorial Public Library was initiated as Central Town Library in 1841 by a group of citizen for the benefit of the English educated local and foreign readers.

In 1920 Kandy Municipal Council took charge of library and made it larger population to make use of its services

Online Library Management System:

Online Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization of an Online Library becomes much simple. The Online Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues and returns and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced.

This system was developed by the open university of sri lanka in 2015.

• Library Name : D.S. Senanayake Memorial Public Library

• Address: Ahalepola Kumarihami Mawatha, Kandy 20000

Phone Number: 0812 223 716contact staf: Mis chamila

Open time: 8.00AMclose time: 5:30PM

Open Date: Sunday, Tuesday, Wednesday, Thursday, Friday, Saturday

close Date : Only Monday

 Items collected: Book Lending, Reference, Periodicals, News Papers, Mobile Library, Branch Libraries, Reading Rooms

Size: 300,000

Members: 80,000

2. Stakeholders of the system

Stakeholders: (This system was developed by the open university of sri lanka in 2015.)

- County Taxpayers
- Users {
- Children of all ages
- Parents and their surrogates (non-parental caregivers, foster parents)
- Educational partners (schools, teachers, home schools, charter schools, public schools, private schools, parochial schools, preschools, daycare centers, afterschool programs, tutors)
- }
- Library Staff
- Advisory Board
- Volunteer Library Staff
- Funding Agencies
- Media

3. Requirements Elicitation Methodology

- Stakeholder Analysis.
- Interview.
- Document Analysis/Review.
- Focus Group.
- Interface Analysis.
- Prototyping.
- Questionnaires.
- Workshops.

4. Functional and Non-functional Requirements

FUNCTIONAL REQUIREMENTS

- Only authentic user must have the access to the system.
- Only the user must be able to provide the information related to the library.
- Search for the required books from database.
- Add new book to the database.
- Update the number of books in database.
- Enter data of issued book in Database.
- Information of returned books.
- User must have the knowledge about the no of copies of a book.
- User must enter issue and return date in database.

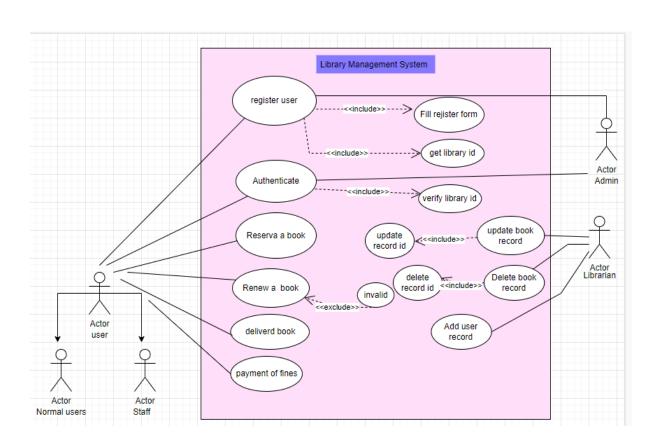
Non FUNCTIONAL REQUIREMENTS

- Reliability
- (The Server would perform desired tasks as expected. The system does its work with more accuracy like user registration to the system, user validation and authorization, book search and issue operation, return status,
- and updating the database by synchronizing between database and application.)
- Security
- Efficient System (In our proposed system, Administrator can easily maintain their server and website.)
- Ease of Use
- (The proposed system would be user-friendly and would provide Graphical User Interface .)
- Accessibility
- Benefits of Proposed System.

5. Identify the business Actors

: Admin, user, Librarian, Student

6. Use case diagram



7. Use Case Narrative

use case Registration

• iteraction: last modification:2019

primary actor: users

Goal in context: to be a member in library

precondition: users must agree with the terms of policy

scenario: staff logs onto the website

the staff enters his/her id ,password

the staff selects the function.

the staff selects check in, check out book id and another option

• channel of actor: web browser, staff server

Exception: id or password are incorrect or not recognized.
 frequency of use: every weekend and weekdays not monday.

8. Discussion and Conclusions

- the library managment system allows the user to store the book details and the person's details.
- this software allows storing the details of all the data related to library.
- the implimentation of the system will reduce data entry time and provide readily calculated reports.

9. References

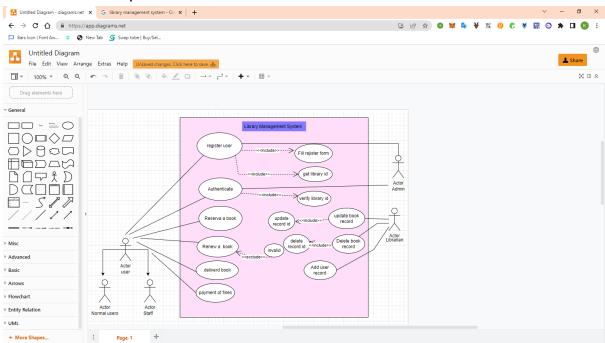
- D.S. Senanayake Memorial Public Library
- https://vymaps.com/LK/D-S-Senanayake-Memorial-Public-Library-87332/
- https://en.wikipedia.org/wiki/D.S._Senanayake_Memorial_Public_Library
- https://www.facebook.com/kandypubliclibrary

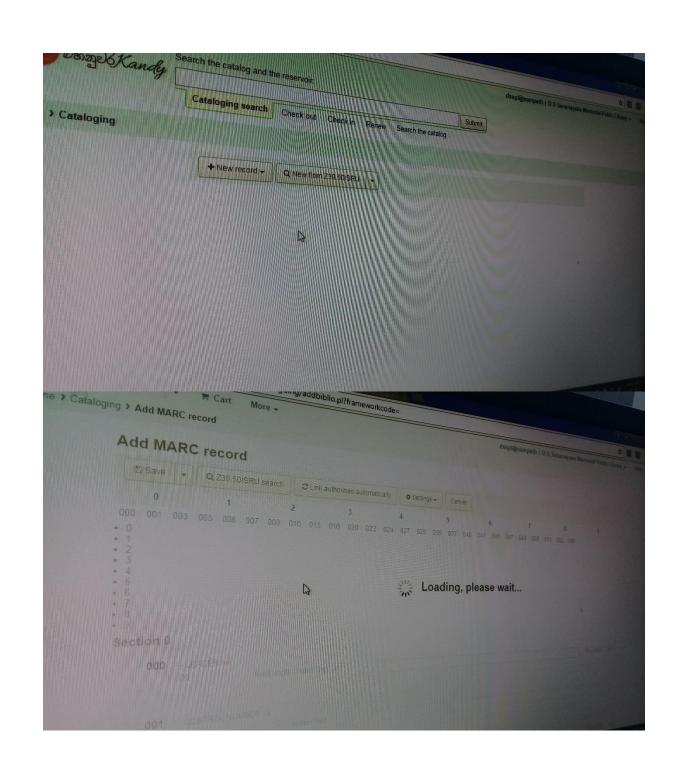
10. Appendix

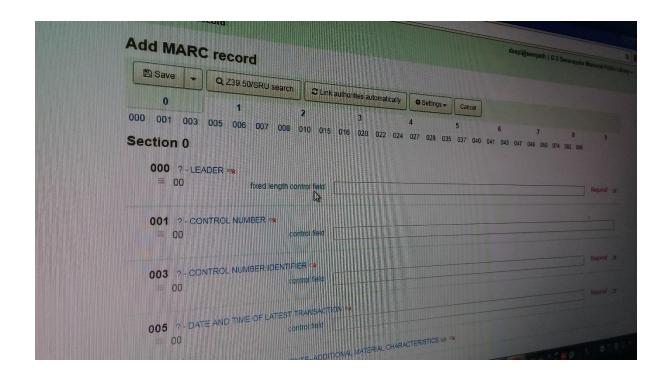
What is the problem this Online Library Management System?

Not any problem in this Management System . It takes a long time for staff to understand the workings going on in this system.

Screen shot and photos.







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