

SVIT SMART Library and Information System

SMART Library which aims in developing a computerized system to maintain all the daily work of library .This project has many features which are generally not available in normal library management systems like facility of student login and teachers login .It also has a facility of admin login through which the admin can monitor the whole system .It also has facility of an online notice board where teachers can student can put up information about workshops or seminars being held in our colleges or nearby colleges and librarian after proper verification from the concerned institution organizing the seminar can add it to the notice board . It has also a facility where student after logging in their accounts can see list of books issued and its issue date and return date and also the students can request the librarian to add new books by filling the book request form. The librarian after logging into his account ie admin account can generate various reports such as student report , issue report, teacher report and book report

Overall this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts.

PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

- Online book issue.
- Request column for librarian for providing new books.
- A separate column for digital library.
- Student login page where student can find books issued by him/her and date of return.
- A search column to search availability of books.
- A teacher login page where teacher can add any events being organized in the college. and important suggestions regarding books.
- Online notice board about the workshop.

EXISTING & PROPOSED SYSTEM

- i. Existing system does not have any facility of teachers login or student login whereas proposed system will have a facility of student login as well as teacher's login.
- ii. Existing system does not have a facility of online reservation of books whereas proposed system has a facility of online reservation of books.
- iii. Existing system does not have any facility of online notice board where description of workshops happening in our college as well as nearby colleges is being provided.
- iv. Existing system does not have any option of lectures notes uploaded by teachers whereas proposed system will have this facility.
- v. Existing system does not have any facility to generate student reports as well book issue reports whereas proposed system provides librarian with a tool to generate reports.
- vi. Existing system does not has any facility for book request and suggestions where as in proposed system after logging in to their accounts student can request books as well as provide suggestions to improve library.

SYSTEM REQUIREMENT SPECIFICATION:

HARDWARE REQUIREMENTS (Minimum Requirement)

- Minimum RAM:-1GB
- Hard Disk:-128 GB
- Processor:-Intel Pentium 4(1.50 GHZ) or above

Software Requirements:

- Operating system : Windows XP/7/10.
- Coding Language : HTML,CSS,Java Script,Ajax,Php

- Database : MySql
- Tool Kit : Sublime Text
- Server : WAMP Server

Project Modules

SMART Library basically has four main modules for proper functioning

1. Login Module(Admin, Teachers and Students)
2. Register New Book And Search Book Module
3. Issue Books And Return Books Module
4. Notice Board Module
5. Upload and Download Study Materials

Module Descriptions

1. Login Module (Admin, Teachers and Students)

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

Functional requirements

- user id is provided when they register
- The system must only allow user with valid id and password to enter the system
- The system performs authorization process which decides what user level can access to.
- The user must be able to logout after they finished using system.
- Registration of new user is done by admin.

2. Register New Book And Search Book Module.

This feature allows to add new books to the library and we can search book based on book id , book name , publication or by author name.

Functional requirements

- System must be able to verify information
- System must be able to enter number of copies into table.
- System must be able to not allow two books having same book id.
- System must be able to search the database based on select search type
- System must be able to filter book based on keyword entered
- System must be able to show the filtered book in table view

3. Issue Books, Return Books and Books Reservation Module

This feature allows know the details about issue and return books and also view reports of book issued and option to reserve the books based on the user request.

Functional requirements

- System must be able to enter issue information in database.
- System must be able to update number of books.
- System must be able to search if book is available or not before issuing books
- System should be able to enter issue and return date information and fine details.
- System should be able to reserve the books based on the user request

4. Notice Board Module

This feature allows teacher and student to add information about various workshops being conducted in college and colleges nearby.

Functional requirements

- System should be able to add detailed information about events.
- System should be able to display information on notice board available in the homepage of site.

5. Upload and Download Study Materials

This feature allows teacher to upload notes, question bank, etc and student can download the materials from the download section.