

AUTOMATED LIBRARY ALERT SYSTEM USING
E-MAIL

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ABSTRACT— Automated Library Management is a project which aims in developing a computerized system to maintain all the manual work of library. This is login logout process i.e. admin account can generate various report , this project of ours is being developed to help the staffs as well as students and also reduce the human efforts. The book issues in student to send the alert message through contact number and email for it also has a facility of admin login through which the admin can monitor the whole system.

It has also a facility where staff after logging in their accounts can see list of books issued and the staffs can request the librarian to add new books by filling the book request form. In this computerized system there will be lots of advantages is there. no loss of book record or member record which generally happens when a non-computerized system is used.

I.INTRODUCTION

THE “Automated Library Alert system” is developed by using C# as a Front-End, MS Access as a Back-End. This Staff monitoring has Six Modules such as Master, Book Reservation, Book Issue, Book Return, Fine, Stock and Reports The Master Module has the details about the Book Purchase, Book Maintain, Supplier Master, Member Master, Reservation, Issue, Return, and Fine. In Book Purchase have the information of the Book name, Date, Number of book Purchase, Rate, and Amount of the books. In Supplier and Member master has the information of the Suppliers and Members Online Library Management system is a small program to manage library which includes the task of library. The Book Reservation is used to information about the Reservation ID, Book Name, Date, Member Name, Issue Date and Returning Date. This Reservation ID will be from the Reservation Master. And Member Name from the Member Mast the Book Issue is used to get the information about Issue ID, Book Name, in this module check the Book Name was reserved or not, that is Issue type. The Issue Type The Book Return has the details about Book Return Details. In this Return ID, Issue ID, Issue Type, Book Name, Author Name, Date of the Issue, Return and Today. The Fine Details are also maintained. Fine will be calculated by using Issue Date, Return Date and Today Date. The Book Reservation is used to information about the Reservation ID, Book Name, Date, Member Name, Issue Date and Returning Date. This Reservation ID will be from the Reservation Master. And Member Name from the Member Mast the Book Issue is used to get the information about Issue ID, Book Name, in this module check the Book Name was reserved or not, that is Issue type. The Issue Type is Reserved and Unreserved. Reserved means Reservation ID, Book Name, Issue Date, and Return Date are also maintained. The Book Return has the details about Book Return Details. In this Return ID, Issue ID, Issue Type, Book Name, Author Name, Date of the Issue, Return and Today. The Fine Details are also maintained. Fine will be calculated by using Issue Date, Return Date and Today Date. The Fine has the details about the Fine Details of the Member. That is Fine Date, Book ID, Book Name, Author Name, Member Name, and Date of the Issue, Returning, and Fine amount will be maintained. The Reports are generated by using Reports. There are six Reports in this library management . Our project we will be able to classify users as staff or staffs. Classifying users allows the book issue controls, fine rates based on the classification. For example for staffs we will be able to issue books at the fine books. We have to set this values jest one and not every time the program starts. We have used my. Setting class to implement this. Whatever we think need not be feasible. It is wise to think about the library feasibility of any problem we undertake. Feasibility is the staff library of impact which happens in the organization by the development bow system .The impact of library staff monitoring can be either positive. Or negative .when the position nomination the negatives then the system is considerate feasible. Here the feasibility study can be performed in two ways such as technical feasibility and economic feasibility.

library staff monitoring feasibility we can strong say that it is technically feasibility ,since they will not be much difficulty in getting required resource for the development and maintaining the system as well all the resources for the development of the software as well as the maintenance of the same is available in the already. The Online Library Management system of risk is often instrumental in achieving organization objectives, it makes sense to consider how risk staff monitoring may be incorporated into the bsc to help with the identity, measurement, and library staff monitoring and reporting of key risks. Consequently, BSc is an integrating framework it lends itself well to initiatives such as risk can be just as important as measuring performance. Although the application of bsc in the business sector is well document very little research has been report reported the risk staff monitoring .they are only a few studies have considered how enterprise risk Library management and bsc can be linked.

II. LITERATURE SURVEY

Designing a Web Based Digital Library Management System for Institutions and Colleges (Author: Chiagunye Tochukwu , Udeani Henrieta)

As the number of documents in digital library grows, it becomes increasingly difficult to store, manage the large amount of documents and find requested relevant documents by users. A Web based Digital Library management System (DLMS) was designed for this purpose. The web is becoming “a ubiquitous source of information” giving an “illusion of depth and comprehensiveness” that leads to a questioning of the value of libraries and their collections. Nowadays, research concerning digital libraries has focused on questions of website design, information provision and information retrieval. The key concepts that characterize these systems encompassing content, user, functionality, quality, policy, and architecture; the range of roles that actors play in digital libraries.

Online Library Management System.(Author: Ashutosh Tripathi & Ashish Srivastava)

The Library Management System is Library management software for monitoring and controlling the transactions in a library .The paper "Library Management System" is developed in java which mainly focuses on basic operations in a library like adding new member, new books, and updating new information, searching books and members and facility to borrow and return books. "Library Management System" is a windows application written for 32-bit Windows operating systems, designed to help users maintain and organize library. This software is easy to use for both beginners and advanced users The purpose of the application is automation of library ,it provide facilities to student or member to search for the required books and it allows the administrator or librarian to Issue & return books to students and can create & delete membership of students. In our existing system all the transaction of books are done manually, So taking more time for a transaction like borrowing a book or returning a book and also for searching of members and books. Another major disadvantage is that to preparing the list of books borrowed and the available books in the library will take more time, currently it is doing as a one day process for verifying all records. So after conducting the feasibility study we decided to make the manual Library management system to be computerized.

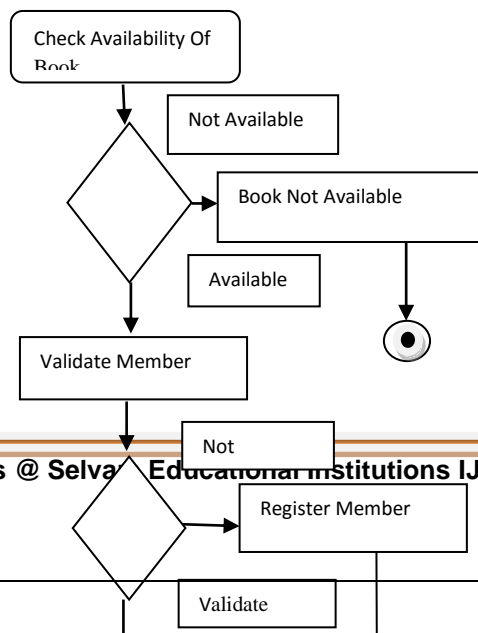
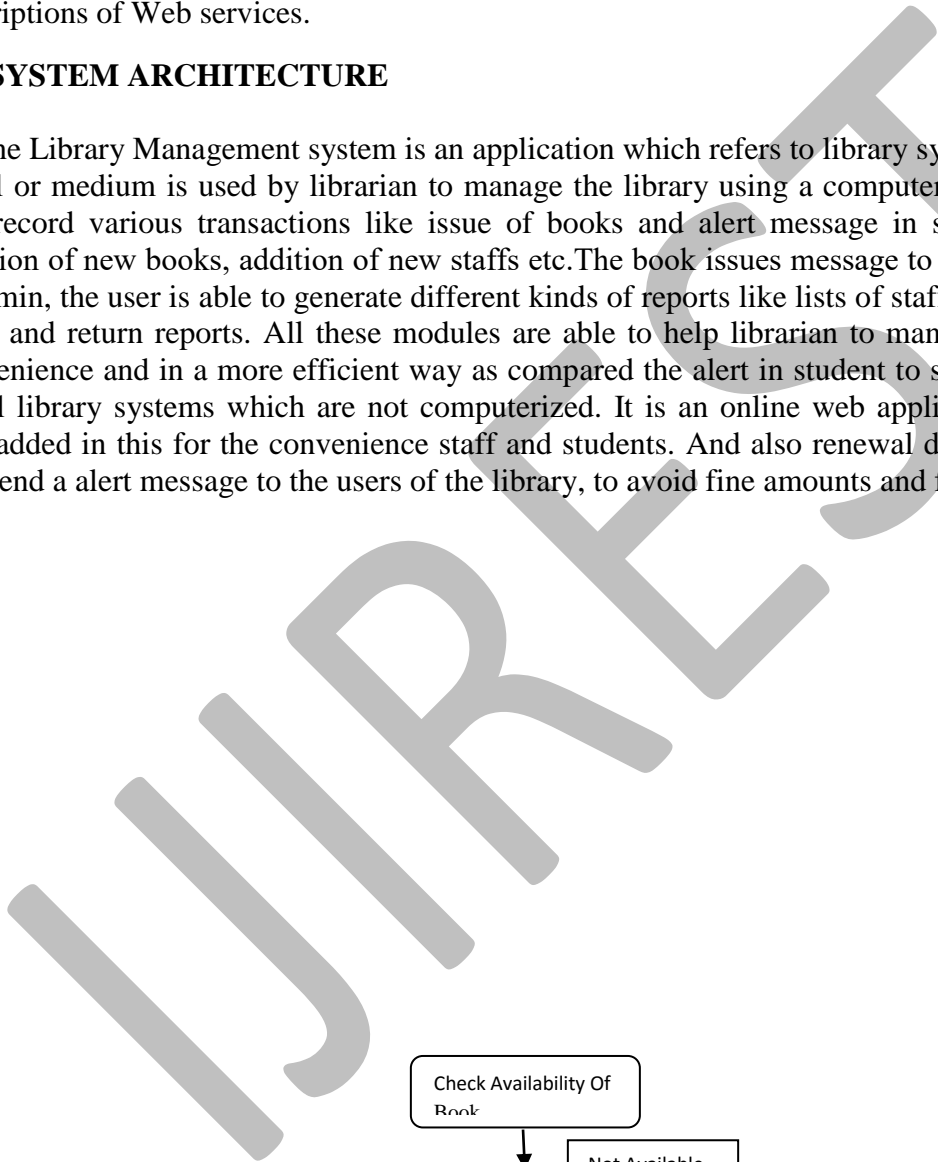
Digital Library System Integration Model Construction Based on Semantic Web Service(Author: Junping Qiu, Yanhui Song)

If analyzing the basic structure and current application of the Semantic Web Service, we built digital library system integration model based on Semantic Web Service. Detailing the realization process of the entire model, the paper focuses on the two main modules: the main module of digital library system integration processing and the main module of digital library system function query. The model is the effective integration of digital library system resources to create a centralized, united digital

library system, and to make the query up to semantic level. It enhances the overall operation and service performance of digital libraries. Web services are components that are able to describe, publish, position and call related contents by any network. And without special design, it can execute dynamic configuration, combination to complete the process from simple calls to complex business processes. Web services complete its dynamical, automatically description, publishment, find, discovery and usage by means of service-oriented architecture . SOA architecture of Web services are based on three roles’ (service provider, service registry and service requestor)interaction between the operations: publishment, finding and binding. Semantic Web services use markup language(eg, OWL-S) to enhance semantic descriptions of Web services.

III. SYSTEM ARCHITECTURE

Online Library Management system is an application which refers to library systems which are generally small or medium is used by librarian to manage the library using a computerized system where he/she can record various transactions like issue of books and alert message in student , return of books, addition of new books, addition of new staffs etc.The book issues message to student . If user’s position is admin, the user is able to generate different kinds of reports like lists of staffs registered, list of books, issue and return reports. All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared the alert in student to send the alert message and email library systems which are not computerized. It is an online web application renewal purpose is also added in this for the convenience staff and students. And also renewal day before two days admin can send a alert message to the users of the library, to avoid fine amounts and for their remember.



3.1. System Architecture

IMPLEMENTATION PLAN

Implementation is the stage, which is crucial in the life cycle of the new system designed. Implementation means converting a new or revised system design into an operational one. This is the stage of the project where the theoretical design is turned into a working system. In this project “**Access Point Selection**” implementation includes all those activities that take place to convert from the old system to the new one. The important phase of implementation plan is change over.

The implementation phase’s construction, installation and operations lie on the new system. The most crucial and very important stage in achieving a new successful system and in giving confidence on the new system for the user that it will work efficiently and effectively.

There are several activities involved while implementing a project:

- Careful planning
- Investigation current system and its constraints on implementation
- Design of methods to achieve the change over
- Training of the staff in the changeover procedure and evaluation of change over method

The implementation is the final stage and it is an important phase. It involves the individual programming system testing, user training and the operational running of developed proposed system that constitutes the application subsystems. On major task of preparing for implementation is education of users, which would really have taken place much earlier in the project when we're being involved in the investigation and design work. The implementation phase of software development is concerned with translating design specifications into source code. The user tests the developed system and changes are made according to their needs.

IV. CONCLUSION

The selection of data can be extended. The user's information maintenance, all the details of the databases can be implemented. The student get the book issues in alert in student to send the alert message and email to get student It's time is consumed and provided to the security .All the data values that stored in the table can be extended. Scope for further enhancement: Finally the scope for further enhancement in the project is to produce more data which can be extended in the requisition of items. The salient features of this project are, High speed of transaction Avoids data redundancy, High level of data security, the main advantage of this project is the speed of the information retrieval, It also reduces the time and the manual work for keeping records and it also provides easy access to the required information.

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