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| **LIBRARY MANAGEMENT SYSTEM AND MYLIBRARY.COM** |
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| **MCA-2015** |
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in completion of my project.

**1.Preliminary Investigation**

**INTRODUCTION**

The main objective of the Library Management system is discipline of the planning, organizing and managing the library tasks. Our project aims at making the task of library easy. Library Management is entering the records of new book and retrieving the details of book available in the library. We can issue book to the library member and maintain their records and can also checks how many book are issued and stock of books available in the library. In the project we can maintain the late fine of library member who return the issued book after the due date.

In a library there are lots of books and maintaining record of each and every book’s is a very tedious and time consuming task. Our software stores the record of each book in the database in a systematic and efficient manner. Also computerized system overcomes the errors in storing records manually.

From student’s prospective our website provide a platform where he can check all his past and present logs in the library. He can also make a wish for any book’s using our new wish list feature.

From teacher prospective this teacher website introduces a platform where teacher can upload his own notes for student. And student can also get all the class notes and download it very easily.

**2. System analysis**

**2.1Existing System:**

Presently the librarians have to keep the record of all the students manually. Also the books record have to be keep manually which is a very time consuming process and includes a lots of paperwork. Due to manual process there is possibility to create many errors which makes it inefficient. Also students also keep the track of due dates within which the books have to be returned. As a library contain a lot of book’salso keeping record of each book is very tedious and time consuming process. Keeping record of each book is very difficult. Also a librarian has to keep the track of each user in the library.

**2.1.1DRAWBACKS IN EXISTING SYSTEM:**

* Need of extra manual effort.
* It used to take much time to find any record of the book
* Not very much accurate.
* Danger of losing the records in some cases.
* Need a very large skills for handling all operations manually.

**2.2Proposed System:**

 In the proposed system, we assume that each member will be having a identity card which can be used for the library book issue, fine payment etc. whenever library member wish to take a book, the book issued by the library authority will be check both the book details as well as the student details and store it in library database. In case of retrieval of book much of human intervention can be eliminated. All the record keeping is performed in computerized manner which overcomes the faults in keeping records manually. Also each user in the library has his own unique ID and password. Using which he can keep track of his own account. Also the librarian keep’s track of each user.

* + 1. **ADVANTAGES OF PROPOSED SYSTEM:**
* Very fast and accurate.
* No need of any extra manual effort.
* No fever of data loss.
* Just need a little knowledge to operate the system.
* Doesn’t require any extra hardware device.

**2.3 FEASIBILITY STUDY**

Once the problem is clearly understood, the next stepis to conduct feasibility study, which is high-level capsule version of the entered systems and design process. The objective is to determine whether or not the proposed system is feasible. The three tests of feasibility have been carried out.

* Technical Feasibility
* Economical Feasibility
* Operational Feasibility
* **TECHNICAL FEASIBILITY**

In Technical Feasibility study, one has to test Whether the proposed system can be developed using existing technology or not. It is planned to implement the proposed system using java technology. It is evident that the necessary hardware and software are available for development and implementation of the proposed system. Hence, the solution is technically feasible.

* **ECONOMICAL FEASIBILITY**

As part of this, the costs and benefits associated With the proposed system compared and the project is economically feasible only if tangible or intangible benefits outweigh costs. The system development costs will be significant. So the proposed system is economically feasible.

* **OPERATIONAL FEASIBILITY**

It is a standard that ensures interoperability Without stifling competition and innovation among users, to the benefit of the public both in terms of cost and service quality. The proposed system is acceptable to users. So the proposed system is operationally feasible.

**3.MODULE DESCRIPTION**

#### MODULES:

* Admin module
* Student Website
* Teacher website
* Database

A module is a small part of our project. This plays a very important role in the project and in coding concepts. In Software Engineering concept we treat it has a small part of a system but whereas in our programming language it is a small part of the program, which we also called as function in, some cases which constitute the main program.

Importance of modules in any software development side is we can easily understand what the system we are developing and what its main uses are. At the time of project we may create many modules and finally we combine them to form a system.

**3.1Admin Module**

Admin module sit at the core of the project. Every new record is added through admin module. The admin is the only person who is responsible for keeping record of every book. Also he can add new books to the database. Also admin provides each authorized user a unique ID and password. Also he keeps track of each user record. Our new system provides a simple easy to handle interface to admin thorough which he can performs all these tasks very easily and efficiently.

Also the main advantage is all records are stored in the computer this reduces the probability of errors in the record. Also admin can get access of each authorized user account. This system reduces time of record keeping.

**3.2Student Website**

The student website provides a platform for students through which they can access their library account. There is no need for any manual record. Once they login they get all the records of book’s that they have been issued from the library with the due dates. This provides efficiency. Also student can also download class notes (such as PPT’s, PDF files, Doc files etc.) provided by respective faculty’s. This is efficient beacause student get all their required study material through a single platform. Our website added another new feature called as ‘Wish-LIST. Sometimes there are might be occasions when book’s is temporarily not available in the library, in such cases a student add that book in wish-list. The admin checks the wish-list and informs the respective student when it is available.

**3.3Teacher Website**

The teacher website provides a platform for teacher’s to upload their notes for student’s. Each teacher is provided with his own unique ID and password.

Also he can share some important material through website. These all notes are stored in the database.

**3.4Database**

All the above three modules are connected to a one centralized database created in mysql. Only admin has the authority to access the database and also can perform required updates. The centralized database makes the system efficient.

This database provides service to all three modules. No user can get access the database.

**4. SYSTEM REQUIREMENTS**

**PROJECT REQUIRMENTS:**

**44.1SoftwareRequirements:**

* Xammp server
* Visual studio 2008
* Opera mini & Google chrome
* Microsoft office 2007

**4.2Hardware Requirements:**

* Processor: Pentium 4 or above
* RAM :1 GB or above
* Hard disk :40 GB or above

**4.3Languages used:**

**Front End:**php,c# .net.

**Back End:** My sql.