**1. Introduction**

**1.1] Introduction of website/system:**

In **Library Management system** Project website allows users to check for various information available on the books present in the library which are active and available to acquire. The project will consists of list of books displayed in table. If the user like to request any book related to syllabus he/she can request it. Also the project contain feedback form for all. Lastly the about us page which gives the information about project developer.

Here the project use php to make the entire data thus the library management system pages brings a fronted. Also mysql servers as a backend to store entire information.

XAMPP is used to create server and client on same device for checking purpose and to make things faster.

**Problem Definition**

If we go regular way journal needs to be maintained for the books record, we removed that option.

It is very difficult to identify the book present in the library or lost book.

Due to manual work load it makes hard to analyze and keep track of books

It also requires more space & time due to manual work report generation is to be delayed.

Updating existing stored data is difficult & time consuming.

**1.2 Existing System**

The current system for Library Management is to visit the shop manually and from the available book choose the book customer want. Also user can request a book which is not present in library.

* It is less user-friendly.
* User must go to Library and see for the book.
* It is difficult to identify the required Services
* It is a time consuming process
* Not in reach of distant users.

**1.3 Scope of the System**

The scope of work of “Library management system” involves studying existing system (manual) & simplifies complex manual system by using computerized system.

In this computerized System all the activity which has been done manually are done with great reliability, accuracy & speed with the help of this software.

* It stores records for larger period without any data loss.
* It also accepts request.
* Taking feedback for further improvement.

**2. Proposed System**

**2.1 Objectives**

* To look for books in library without physically surfing.
* To maintain book records
* To give the absolute information of books and in minimum time.
* To categorize available books

**Benefits:**

* **User Friendliness:**

This project has user-friendly screens designed will have very simple functionality for the information.

* **Consistency:**

The consistency in the proposed system will high efficiency due to smaller learning curves and increased data integrity.

* **Compatibility:**

This project offers great compatibility, as it will be designed with proper methodology, new tools and technology.

* **Security:**

This project is secured system, which will provide corporate level security. Also that will enable a user to view/edit/add the information, based on roles and privilege assigned to that user.

* **Reliability & Robustness:**

This project built with proper architecture and design it will provide a reliable and robust application to the user.

* **Performance:**

The performance of this application will be high because of it is optimize design.

* **Extensibility:**

This project has a modules design and would provide the flexibility of adding, future modules to the application

**Feasibility Study**

Feasibility study is essential to evaluate cost & benefit of the Proposed system. This is very important step because on the basis of this; system decision is taken on whether to proceed or to postpone the project or to cancel the project. We first study existing system and identify all problems & Look Into three types of feasibility study, those are given below:

**1. Technical feasibility:**

The project work can be done with the present equipment, current procedures, existing software technology and available personnel. The available system i.e. computer, hardware & software availability, support facilities, operating time etc. is technically perfect to fit the scenario.

It is compatible with technical skills of the organization. Technical issues usually rise during the feasibility stage of investigation include the following:

* Dose the necessary technology exists to do what is suggested?
* Can system be expended if developed?
* Are technical guarantees of accuracy, reliability ease of access and data security?

**2. Operational Feasibility:**

The advantage of the system is that is reduced the tedious manual work & also the long times required achieving optimum result due to manual work.

The proposed system is feasible enough to operate. The developed only if they can be turned into information system that will meet organization operating requirements.

This test of feasibility asks if the system will work when it is developed and installed. Are there major barriers to implementation? A new comer also handles the system after getting some guidelines.

**3. Economic Feasibility:**

The one cost like feasibility study cost, cost for converting from Present system to new system and recurring costs like printers, equipment maintenance falls within the budget of the management.

All the persons that are working in the bank have the primary knowledge about computer, so that training period as well as the amount required for the training is in the budget.

Hence the system is economically feasible.

**2.2 Requirement Engineering**

**2.2.1 Requirement Gathering**

Requirements gathering is an important part of project planning. Whether you’re interviewing stakeholders or performing other types of research to compile your list of project requirements, having project management software that can hold all your information and seamlessly move it into the next phase will go a long way.

When your stakeholders and your team members share access, you can communicate and collaborate from project start to finish and reduce any chance of setbacks.

**HARDWARE REQUIREMENTS:**

|  |  |
| --- | --- |
| **1. PROCESSOR** | **:Pentium 4 & above** |
| **2. RAM** | **:1 GB & above** |
| **3. HARD DISC SPACE** | **:120 GB & above** |
| **4. DISPLAY UNIT** | **:Monitor or LCD** |

**2.2.2 SOFTWARE REQUIREMENTS:**

* **WAMP Server**
* **XAMPP Server**

**Front End:**

* **HTML**
* **CSS**
* **JavaScript**

**Back End:**

* **PHP**
* **MySQL**
* **Ajax**