Project Proposal

**Project Name:** DIA Library System

A Desktop Based Library management System

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**Introduction:**

An efficient and computerized library management system will increase the effectiveness of a library. A good library management system should enable librarian to manage library resources in a more effective way to save time and effort. The system has to make in order to fill up these purposes.

**Background of the Project:**

Today an integrated and computerized Library system is essential for schools, colleges and universities library. So I want to make such system which include many useful features for managing a library and which is also important for students and teacher for their learning. The System will help librarian to manage a library in an easy way and it will avoid all types of human mistakes. Students can easily borrow and return book according to their requirement from librarian and librarian can easily store those information. Librarian can add book’s information and also can add student’s Information. According to that information, librarian can also store all the information about Issued and Return details of book and also provide book for each student in an effective way. It will enhance the presentation of the library. It also saves time and cost of managing library. Librarian can also print the current report about issued book details and return book details and can also take screenshot of that current report.

**Aims:**

My actual aim is to make smart library system software for the librarian. So that, the librarian cans easily store, retrieve and maintain the whole information of that library in a computerized way. It will help to avoid all types of human mistake.

**Objectives:**

1. An efficient computerized library system.
2. Manage library in a easy way.
3. Reduce all types of human mistake.
4. Make a more effect way to save time and effort.
5. Enhance the presentation of library.

**Scope of the project:**

Due to make efficient library system, first of all, I want to make login in system where a librarian can securely login to that software. At first I want to make such system where librarian has to register with a specific username and password and a security question. If librarian forgets that password, I want to make such system in the login section so that librarian can easily retrieve that password with the answer of that security question. After that, I want to make a progress bar or loading page, it will show before entering to that software system with the correct username and password. After that, I want to make a home page as like as a dashboard where librarian can easily find all the requirement of the software system. In that home page, I want to make some sections like “Add New book”, “Add New Student”,” Borrow Book”, “Return Book” ,” Statistics” and “About”. In “Add New book” section, I want to make such system where librarian can easily store all information about every book in the library and also want to make a table where all the information will show. In “Add New Student” section librarian can easily store all the information about the students as like as “Add New Book” section. In” Borrow Book” section, I want to make such system where only registered student can borrow a book and have to return that book in a maximum period and all the issued information will show on a table. Librarian can also search that Book and that specific Student with the Book ID and Student ID in order to provide a book to a student. In “Return Book” section, librarian can easily store all the return information. I want to make such system in this section, when a student will come to return a book than librarian can search with the student id of that student and get all the information about that student and also know which book has issued by that student. When librarian confirmed that return, all the return details with that return date will save and show in a table and will also delete this specific information from borrow details. In “Statistics” section librarian can easily get all the information about issued and return details. In this section I want to make a screenshot and print function so the user can easily take the screenshot or print any current report of those details.

**Key Milestone:**

Due to complete this project, First of all I have to maintain time and follow a timeline. It is so much important to complete this project within a time. At first I have to do feasible study for this project which I want to start from **1st September**. It will take **6 days** to finish. After that, from **7th September** I want to collect essential information for my project. It may take **5 days to finish** this task. After that, I want to start analysis of that information at **13th September** which may **takes about 8 day long** to finish this task. Then I want to start design part from **21st September** and it may takes about **4 days long.** Then I want to start implementation part at **26th September** and this may takes about **10 days long to finish**. After that, **at 6th October** I want to start testing whether the system works or not. From **8th October to 15th October**, I will make a report for this project.

**Key Activity:**

* Feasibility Study: It is about determining whether a system or project is financially, technically and logically feasible.
* Information Collection: Collecting and gathering information from external resources about the activities of the system
* Analysis: Analysis the system and identify the flaws and drawbacks in it.
* Design: Project design is an early phase of the project where a project's key features, structure, criteria for success, and major deliverables are all planned out.
* Implementation: It is the phase where visions and plans of a project become reality. It is also a part of executing a project.
* Test: It is the phase where all functionaries of this project checked whether they work or not.
* Report: A final report has to generate in this phase in order to get detailed specification of whole that has been done.

**Activity Schedule:**

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| --- | --- | --- | --- | --- | --- |
| No | Activity | Start Day | End Day | | `Time Duration |
| 1. | Feasibility Study | 1st September | 6th September | | 6 days |
| 2. | Information Collection | 7th September | 12th September | | 6 days |
| 3. | Analysis | 13th September | 20th September | | 8 days |
| 4. | Design | 21st September | 25th September | | 5 days |
| 5. | Implementation | 26th September | 5 October | | 10 days |
| 6. | Test | 6 October | 7th October | | 2 days |
| 7. | Report | 8th October | | 15th October | 8 days |

Chart:

