

Library Management System:

1. Problem Statement:

The ~~class~~ traditional method of library management system is a ~~very~~ very tedious task. The manual process of entering the entries of book issue and return can be very difficult and may contain many errors. Each and every customer must have a separate library card and also the library librarian would have to search for each and every availability of book in the shelves.

2. Scope:

The library management system overcomes the problems of ~~trad~~ traditional ~~pen~~ pen and paper method by ~~automation~~ ~~and~~ ~~conversion~~ ~~to~~ ~~an~~ ~~online~~ ~~mode~~. The process of issuing and returning the books in library can be done faster. Each user can have a separate ID in order to issue the books. The librarian can also easily search for the books using the system. If the new books are added, the manager can easily add the books ~~or~~ remove them from the database.

3. Functional Requirements:

3.1 Administrator:

3.1.1 The administrator should be able to add ~~or~~ or remove the books from the database easily.

3.1.2 The administrator should be able to manage all the profiles and accounts of the employees as well as all the users.

3.2 Librarian:

3.2.1 Librarian should be able to easily ~~to~~ issue a book to a user.

3.2.2 Librarian should be able to search for the books.

3.2.3 Librarian should be able to generate the reports of all the transactions.

4. Non-functional Requirements:

4.1 Reliability: The system should be ~~not~~ reliable and there should not be any case of data loss.

4.2 Usability: The system should have a simple and intuitive user interface.

4.3 Scalability: The system should support large book collections.

5. Domain Requirements: The system should be user-friendly for members and administrators.

6. Design Constraints: The system must comply with the modern standards.

7. Preliminary Schedule and Budget: The project will take up to 4 months with an estimated budget of \$200000;

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