

a) Library Management system.

1. Introduction:

1.1 Purpose of the document : The purpose of the document is to define the requirements of library management system such as managing student and staff people, borrowing of books and book details.

~~1.2 Scope of this~~ Document also outlines the features and objectives of the document

1.2 Scope of this document : This document provides detailed description of the system that includes operations of the library management system. Document also includes estimated budget and development time.

1.3 Overview : It provides platform to manage student and staff details and ~~their~~ the details of ~~lent~~ books those lent. This helps library management keep track of new books arrived and books those lent.

2. General Description :

Library Management system is a web-based application that has functionalities to manage user profiles, due dates to return the book lent ~~and~~ as well as detail of new books arrived. This system also includes books that are necessary for students ~~that~~ that

are not present in library.

3. Functional requirements:

- Student and staff profiles: This includes detail of students and staffs.
- Detail of borrowed books: This includes lender detail along with due date.
- Detail of existing book: This includes location of the book in the library.
- Login and signup functionality.

4. Interface Requirements:

- User Interface: Web-based GUI for both library management and customers.

5. Performance Requirements:

- Response time should be short.
- Time to time updation in the details of the books.

6. Design Constraints:

- Developed using html/css, Javascript
- Using Mongo db for database management.

7. Non-functional attributes:

- Security: Securing the detail of users.
- Reliability: Short response-time.
- Usability: User friendly interface.

8. Preliminary Schedule and Budget:

- Development time: 12 months
- Estimated cost: \$ 90,000
 - Requirement analysis - \$ 20,000
 - Design and implementation - \$ 25,000
 - Verification and validation - \$ 30,000
 - Evaluation - \$ 15,000

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