DATE: 01/10/24

LAB -02

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1) Labrary Management system:

1. Autroduction

11 Purpose of this document.

This document outlines the requirements for developing a Library Management System the purpose is to provide a system that simplifies library operations, enhances were experience, and improve overall efficiency.

1.2 Scope of this document:

This document covers the design, development and implementation of an LMS. At will track book inventory, manage user memberchips, and allow for hormoning and returning of books, and ensure to minimize manual labor and reduce human error.

13 Overview

The LMC will allow librariens to manage book collections, handle near data, and track borrowing activities. At will include modules for search, reservation, issuing and returning of books, along with fee calculations.

2. General Description

the LMC is designed for library staff and patrons Users can seasch for books, reserve or borrow them, and check their account details. Librarians can manage inventory and track borrowing history, The system aims to improve efficiency and reduce errors.

3 Functional Requirements:

- User authentication for members and steff - Book catalog management - Assue and return stracking with fine calculation - Search and reservation functionality.
4. Interface Requirements. - Web-based interface for users of staff - Integration with external DBs to update catalog. - Overdue email notife
- Response time should be minimal - System should hardle concurrent users. - (U) should be responsive)
6. Design Constraints. - Mel should be used for date storage. - Compatibility with sorrer should be ensured. - DB storage for IM records
7. Mon-functional Requirements: - High reliability of uptime. - Scalable to Landle wer bare of inventory. - Secure was authentication of data encryption
8. Preliminary Schedule of Budget. 8.1 Preliminary Schedule: - Set to take approx. 4 months. 8.2 Preliminary Budget. - Dandar of the
- Development: \$8k - Testing: \$3k - Deployment: \$2k - Miscelloneoni: \$2k Total Endgel: \$15k