## Library Monogement System

## 1. Introduction

1.1 horpose

This document outlines the func. and non func requirements for the the developed development of a library management system that automates the management of books, user, and bronsoctions within a library

1.2 Signe

This document woors the core beatures,

That technical phicipications and

mystem wichitecture required bor Lus.

The system will manage book inventory

user regs borrowing / returning

transactions and reporting

1.3 Diewiene

The LMS will allow lib staff to monoge both collections and torock brovering activities, while members rearch for books, borrow one view their borrowing history. The system will ensure efficient library operation.

- 2 General description

  manage book inventory, register users, brock

  lending and returns. Search for books.

  Generale reports, monitor system usage one

  manage users

  haladate fine for late returns
- 3 Functional requirements
  31 eyer management

  Mers must be able to register and
  login. Admin Joshboard
- 3.2 Book wildlog and inventory

  Labrary staff must be able to odd,

  remove, update less book records

  Usery can search for book by little,

  suthor, genre
  - 3.3. Borowing one returning
    users con borrow bowns and view one
    dules
    system calculates fine for late rollors

sh reporting must be able to generate reports

4. Interpose requirements

system must provide on easy way to use web interface for days, and members to perform lasks

Mystem should integrate with external actabases for retrieving sota

5. Performance requirements
5.1 System lood

Nupport upto 1000 concurrent users

5.2 Repone Time
Book storkers ond borrow operations
must be produced within 2 res

6. Nesign cont constraints
6.1 Platform

Cloud based to ensure scalability
6.2 compliance

comply to date privacy standards

7. Non functional requirements
7. 1 Security

Encrypt all user data
7.2 peliability

99.9 % uptime

DATE: PAGE: 8. Prelymorary schedule and budget 8.1 timeline requirement gathering: I more nevelopment: 4 months Testing: (month) was been as reployment month regitem stroubel entegrate with sales 18.2 Rudget I and state pevelopment \$100,000 Infrastructure our nostery: \$ 20,000 Annual maintegrance \$ 10,000 Enought all war date