II Library Management System

1 Introduction:

1.1 Purpose: The document outlines the requirements and specifications of a Library Management System. It acts as a guide to the developers and outlines functionalities, objectives and constraints.

1.2 Scope of the Document: the document of a comprehensive library Management System including Catalog, circulation, patron mangement and reporting functionalities.

1.3 Overview: The System is designed to streamline operations such as book acquisition, cataloging, circulation etc.

2 General Description:

- Will cater to the needs of librarians and patrons.

- Some features are:
  - Cataloging: Allows librarians to catalog books, media including metadata.
  - Circulation: Facilitate borrowing and returning of library materials.

- Patron Management: Maintain patron records such as registration and borrowing history.

- Reporting: Generating regular periodic report.

3. Functional Requirements

- User Interface: UI and how info is presented to The user.

- Library User Acct. Management System:
- Display acct. info, user ID, name, positioning, Prividedge, users a GUI which allows librarians to change the info.

- Book Borrowing System: Check out book. Show book borrowing info.

- Book Records: List of available books. ISBN, Title

4. Interface Requirements:

- User Interface: Intuitive interfaces for librarians and patrons.

- Book Detail View: Display of book info, options for summaries, reviews.

- Notifications: System for alerts on overdue book recommendations.

5. Performance Requirements:

- Response Time : → Check in and check out in less than 5 sec.
  → Search function in less than 5 seconds.

6. Design Constraints:
- Each user has an ID used for book issuing, fine payment etc.

- Compatibility w/ multiple platforms and databases

- Scalability to accomodate growth, adherence to security standards, accessibility for all users.

7. Non functional Requirements:
- Minimal latency, reliability to operate w/o crashes or errors, user friendly interface.

8. Preliminary Budget:
- Costs for development, infrastructure, maintainance, training, integration, security.

8/July