LIBRARY MANAGEMENT SYSTEM 1.1 The Purpose of this Document The purpose of this document is to outline the requirements and specifications for the development of a hibrary Management System. It will provide a clear understanding of the project objectives, scope and deliverables. 1.2 Scope of this Document This document defines the overall liverking and main objectives of the hibrary management System. It includes a description of the development cost and estimated time beginned for the project. 1.3 Ouerweer

The Library Management System is a software Solution designed to automate library operations, including book cataloging, member Legistration, bowding and returning of books, fine management and reporting. 2. General Description The hibrary Management System will some librarians, administrators and members. It will handle book inventory, manage user accounts, torack issued / exturened books and generate

	1 De l'acompenita
3.	Functional Requirements Our Catalog Management
3.1	Book Catalog Managerral leach succords
•	Add, update and title author, alnes
•	Book Catalog Management Add, update and delete book records. Search leads by title, author, genre or Is
12/0	+
3.2	Membeer Management Register new members with fersonal details Grack bourseing history of each member.
• 6	Register new members with forwards details
	Leach bouroung history of tack member
3.3	Bourdoing and Returning
2 0	flow member to bolish allalate look.
	track due dates and set reminders for exten
• 2	track due dates and set reminders for extremed book returns and update availability.
handare 20	description of the standard of the
3.4 4	ine Management deulate fines for overdue books
• C	doubte fines for overdue books
·	enerate payment excepts for fines collected.
U CONTRACTOR OF THE CONTRACTOR	a il mora transporation practical all
3.5 Re	forting
·	enérate eneports on book circulation, fighely
tu	tles and overdue accounts.
· Per	quide monthly and secretar summaries for
Cld	ouide monthly and yearly summaries for Iministrators.
300	
и 9.	toul-com
LI CI	terface dequirements
-1-1.	er Interface
· User	- fluendly interface for members and we
· Acce	- feriendly interface for members and librarian ssible was web browsers and mobile
MAR	lications.

4.2	Integration Interlaces
•	Integration Interfaces Integration with borcode scanniers and RFID
	114 tom 1
•	Integration with online databases for book information victoriesal.
	in laymation exterious.
5.	Performance Requirements
5.1	Performance Requirements Response Time: Search and bourowing requests should be perocessed within 2 seconds.
	should be perocessed within 2 seconds.
3 45 4	ALLEGATION CONTRACTOR OF THE STATE OF THE ST
5.2	Scalability: Sufforts at least 5,000 concuerent users.
5.3	Data Integrity: lensure consistency and accuracy of library records across all modules.
`	of library records across all modules.
6.	Design Constraints
6.1	Hardueaue Limitations: The system should be
	compatible with standard library harderane.
7000	a bone statute maintain property and it
6.2	Software Defendencies
•	Utilize a erelational datalease management system.
•	Use frameworks and freagramming languages
tralian	suitable for library systems (eg. Java, spring boot)
	alphan I warman do sake 6 months
7.	Non-Guntional Attributes
7.1	Security.
•	Implement user authentication and access control
•	Protect member and transaction data using
	encuftion

7.2 Polaileility: Ensure minimal documtime
7.2 Relaibility: Ensure minimal douentime backer and encouring mechanisms.
7.3 Scalability Design to support growth
7.3 Scalability: Design to support growth in collection and user base.
7.4 Poetability: Accessible across multiple plays
7.5 Usability: Purouide intuitive naugation
7.5 Usability: Purouide intuitive navigation for both staff and membeers.
7.6 Rouse 1:1:+ 111 01
7.6 Reusability Modular design for future feet
- Junistan
7.7 Compatibility Con D-+: 21
and reperating systems:
- Jacobson
integrate 11-
teransaction logs.
8. Pereliminary Schedule and Budget The development of the hilarans Management
The development and Budget
as esta + a
planning, development. This includes fry
planning, development, testing and deployment