Library Management System Introduction 1. Purpose: The purpose of this document is to define the junctional of non-junctional requirements of the riblary management system which well manage book secords, user accounts, fine calculation Chepoling broad to be addish Collins to 1-2 Scope of this document: This document defends the soulall working and main objectives of the siblary management system. It includes a description of the development rost and the time significal. 1.2 Ourview: The Library Management system will automate the surrent manual system of book issung, returning, catalogue management. The system well ensure that data integrity and security to handle large number of uses of book necolds with present of the state of the sta General description The liberary Management system well cated to the needs of library members (student, faculty) librarians and administrators providing an interface that ryplaces manual hund keeping weith an automated digetal platform. Functional requirements 3.1 Book catalog management . Add, update, delete of search book Records. · Maintain metadata (18 BN, tell author, catigory, availability).

(Saathi) 3.7. Borrowling & Reterring books

Allow members to porrow available books.

Thack due dates & calculate orunderes. Register new users with unique ID.

· Maintain leavewing history jor each user.

· Provide sole based acely 3-4- Repolts & malytics Management · yenerate reports on most borrowed books, ourdue books and user activity 4. Interface requirements · Mem bers: search, leorrow, return, revent of renew box · Admine: View analytics, manage users. +2 Integlation Interfaces

Barcode 188 scanner for physical books.

Integlation with smail or sus service for resnenders. 5 Performance Requirements
51 Response time 5.1 Response time - Search queeries should return results within 2 seconds 5.2. Scaldbellity: System must support 500 concurrent users and must have ability to Randle 100000 book. Seconds. unique identifiers. Page No. 9

		Date / /
	-	20 Date of the second of the s
6.	4	Duign constraints
	6.1	Hardware unitations
		- Requires standard systems / mobile dervice with
		Intern It access.
		. Barroll scanners for physical book handling
	,	· Barrode scanners for physical book handling
	6-2	Costware similations
		· uleb based system must support major blowself
		. Must romply with data protection rigulations
		34. Peppelle & tralifies Management
7.		Non- Functional Attributes
	7 .1.	security: lenelypted stolage of user passwords
		and tole based access control for different usels
	7.2	Reliability: Daily backups of database.
	4-3	scalability: revigorial scaling supported for
		database and application sirrules.
	7-	+ Portability: compatible with major 05 with
200	120	Supersive VI
19		s usability Intuitive or for both members of
		libralians, miltilingual support for accessibility
	7	Reusability: Reusable modules joe catalog
	-	management of user authentication
	7	2 Compatibility: compatible with standard
22	- 4	parcone runner.
	7	& much I willy all Maryactions are loss and and
-		timestamps and user IDs
193	8.	
	0/	of the system is estimated to take & months weith a lendget of \$90000 including deployment plases
1	3/	a lendget og £90000 including destorans to come
190	Dr.	June paasle
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