iii) SRS Document for a Library management system.

1. Introduction: 1.1 Kurposes This document gives the requirements. for a Worary Management System (LMS), aimino to automate library functions like cataloging, issue, return, & material search ensuring a smoot transition forwar shiring I'M Litter : I'M & 1.2 Scopes The document outlines the design & implementation of a digital LMS, supporting students, librarians & administrative staff. 1.31 Overviews The LMS streamlines library operation including catalog browsing, borrowing and returning books, enhancing data accuracy and user experience through efficient & reliable services. 2. General Description: Users can search, borrow, & roturn books, while library staff can manage the inventory, track usage patterns Esmonitor overdue books. System includes authentication for different user voles. 3. Functional Requirements: 11/1/4 Isomoitsmut not I I User authoritication: Users must login using their assigned credentials and based on their vole they have accessifing it blooms motifice. * Book Catalog Management Add, update vor remove book

* Book Search & Filter: there can search for books Lossed on title, author de.

* Jesue (Return System: System updates avoilability) 4 Unitaterface requirements a search box, book listing of. · 1 Patabase Interface : Backend SQL to store data. * API: Restful APIs provide remoteracess & integration to with nother systems good of 5. Performance Réquirements : la Moitation algre * System should have faster response timents * System should support many weeks simultaneously a system should handle real time updates to book 6. Design Constrainte: Design Constrainte: at alse MysQL for Database managements. * System to be deployed on a server, with a coninimient of 16 GB RAM MODERNING SANS A Developed using react for front end. 7. Non-Functional Attributes: Invalidable Sirvitarias & * Able to handle unexpected inputs, crashes, alor or downtimes somethouse losing datas System should be platform independent. + system must be 99.5% available of the

8. Robiningly Schoolule & Budget & spart 2012 : total time with a naximum downtime of 2 hrs * Development duration: 6 Months * Cost 1 \$10,000 including everything.