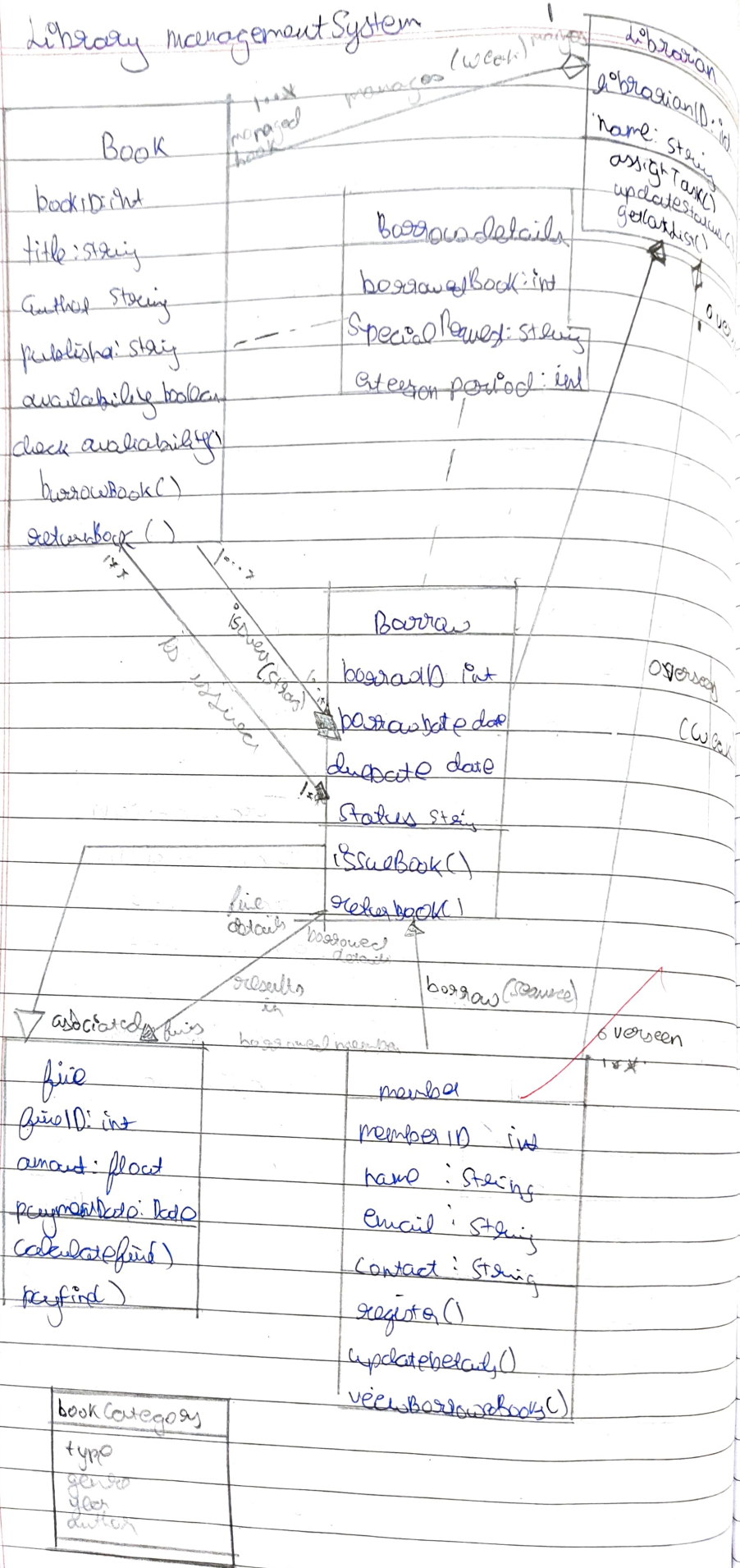


Library management System



5) performance requirements

Real time search: search result in 2 seconds

concurrent users: must support 500 concurrent users

Scalability & future growth for all types of resources.

6) design constraints

database structure: should be capable of storing large amounts of data & resources

cloud integration: should be hosted on a cloud to allow remote access.

7) non functional requirement

Security: role based access control

reliability: 99.9% system uptime & all features working.

usability: must be accessible to both admin library staff & user.
Interface must be friendly.

8) preliminary schedule & budget

development duration: 6 months

estimated budget: ₹30,000 - 6,00,000

for all mobile web and database.

Key features includes: Search user authentication & the ability to reserve or reserve books online

3. Functional requirements

catalog management: add update or delete books & digital resources

user account management: user can create login to accounts manage items fines reservation

Book issuance & return: automates issuing & returning due date & fine calculations.

online search and reservation: search catalog and reserve / reserve books.

Digital resources access: remote access ebooks & Journal & their licenses.

notification: fines reservation & returns.

4) Interface requirements

web and mobile interface: to access all features but limited to

Admin interface: manage catalogue track due and other books

database integration: keep all records in central database.

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store
67

/4

Lab 1

Software Requirement Specifications Library Management System

1) Introduction

1.1 purpose of this document

This document defines the requirement for modern library management system LMS that supports both physical and digital resources enabling efficient inventory management, user access and remote services.

1.2 Scope of this document

This document covers LMS functionality, which includes cataloging books managing digital resources, issuing and returning books and providing user with online access to library services. It also includes a high level estimate of the development cost and timeline.

1.3 overview

The LMS will facilitate both physical and digital resources allow user to search for borrow material online and streamline inventory management reducing manual effort and enhancing accessibility for library users.

2. General description

The system automates key library functions like cataloging, issuing and returning materials. It provides a centralized platform for librarians students and returning materials. It provides centralized platform for students staff & librarian to manage the resources.