

30/09/24

LAB-2

3. Software Requirement Specification for Library management System

1. Introduction:

• Purpose:

This document outlines the requirements for library management system designed to help librarians efficiently manage their book inventories, member records, the issuing process.

• Scope:

The system will assist library staff in managing book collections, tracking member activities and issuing books.

• Overview:

It includes modules for managing members, tracking book issuance returns, calculating fines. Users will be able to search a book via the ~~app~~ desktop or mobile devices.

2. General description:

• Product Perspective:

The system will integrate seamlessly with existing library hardware and software, allowing staff to manage both physical and digital collections from a single platform.

• User characteristics:

Users include library staff and members who search for books. The interface will be simple and user friendly.

• system constraints: The system must be operational during library hours and capable of supporting multiple users at the same time.

3. Functional Requirements:

- Manage book catalog
- Track book issuance and returns
- Manage member accounts
- calculate fine fees
- Enable search ~~opt~~ functionalities

4. Interface Requirements

- GUI for staff members
- web-based portal for library members

5. Performance Requirements:

- system must accommodate upto 200 concurrent users
- search should be faster

6. Design constraints:

- system must integrate with the existing software
- should be modular and to facilitate future updates.

7. Non-functional Attributes:

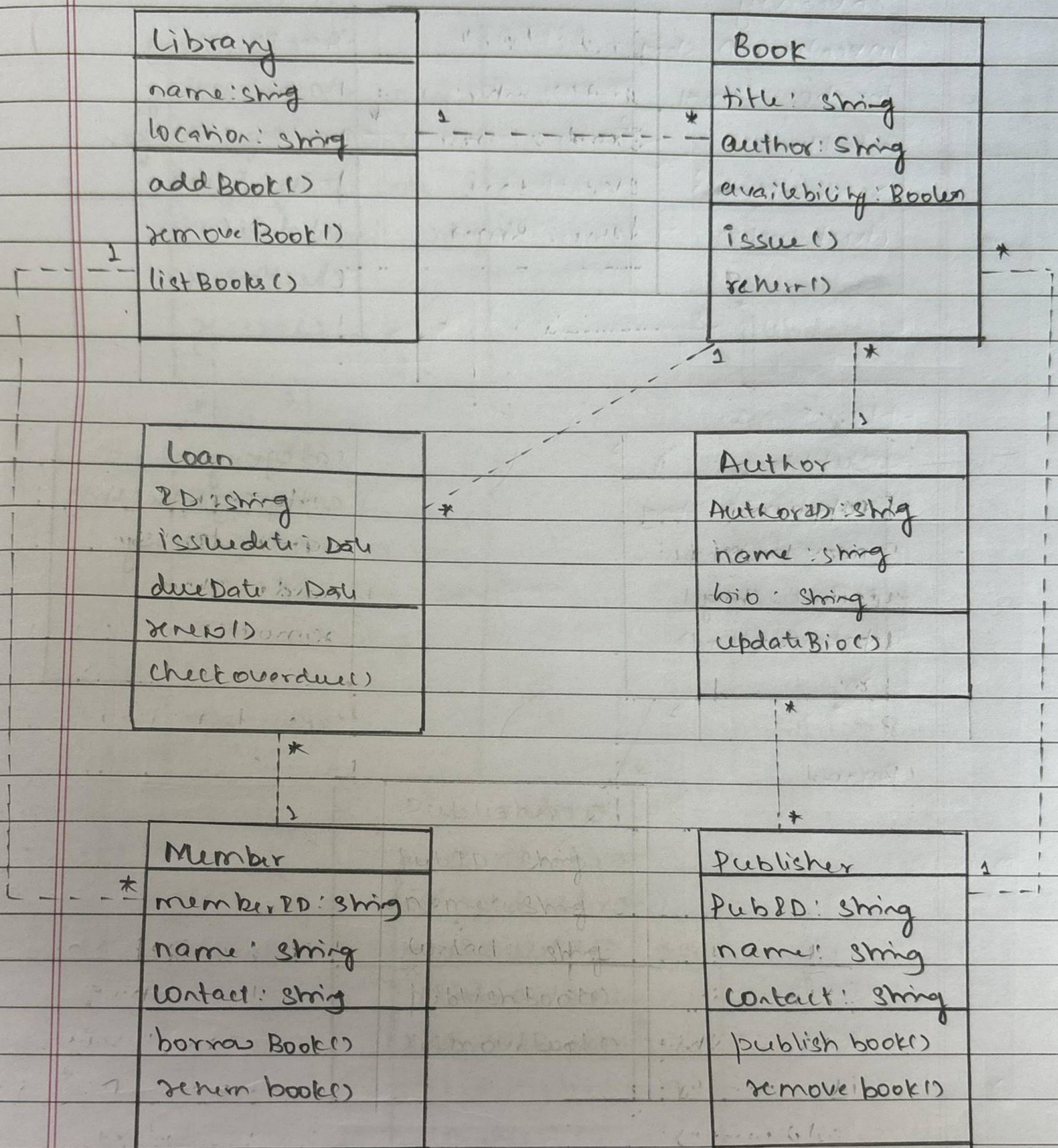
- security: Personal information of the members must be secured
- scalability: should be able to integrate multiple libraries
- Reliability: Should be 99% reliable

8. Preliminary Schedule and budget

- Development Timeline: Approximately 5 months.

- Estimated budget: \$20000 for initial development.

3. library management system.



STAR UML DIAGRAM

LIBRARY MANAGEMENT SYSTEM

