

3. LIBRARY MANAGEMENT SYSTEM :

GENERATING SRS SYSTEM:

LAB-2
2) Software Requirements Specification for
Library Management System.

1. Introduction:

1.1 Purpose:
The purpose of this document is to define the
2.2 requirement system.
This system will help libraries manage book inventory,
members records, lending, results efficiency.

2.2 Scope:
The system will support library staff in managing
book collections, tracking member activity, and issuing
books. It will also allow members to search
for books and view their borrowing history.

1.3 Overview:
The Library Management System will consist of
modules for book cataloging, member management,
book issuance, return tracking, fines calculation,
and reporting. It will be accessible on desktop or mobile devices.

2. General description:

2.1 Product perspective: The system will integrate
with current library hardware and software.

2.3 Systems Constraints:
The system must be operational during library hours
and support multiple concurrent users.

2.2. User characteristics:
User include library staff and members. The interface
will be simple and user-friendly.

3) Functional Requirements:

catalog management - for books (add, update, delete)

Member registration and Management.

Book issuance and return tracking.

late fee calculation.

search functionality - for books by title, author and genre.

Report generation for inventory and member activity.

4) Interface requirements

Graphical user interface for staff.

web-based portal for members.

barcode scanner integration for book issuance (returns).

5) Performance Requirements.

Must handle 200 concurrent users.

Search query results should be returned in less than 1 second.

6) Design constraints.

Must support integration with existing library barcode scanning systems.

Modular design to allow easy future updates for digital collection management.

7) Non-function Attributes.

Scalability:

Security: protect member personal details and browsing history with encryption.

Scalability: Must scale for use in multiple branches.

Reliability: 99.9% uptime during library hours.

can be represented
Sale -> individual individual
change event -> will happen when
Time event

2) preliminary schedule and Budget

- development timeline : 5 months.
- Estimated Budget : \$80,000.

Software Requirement Specification
Maintenance System.

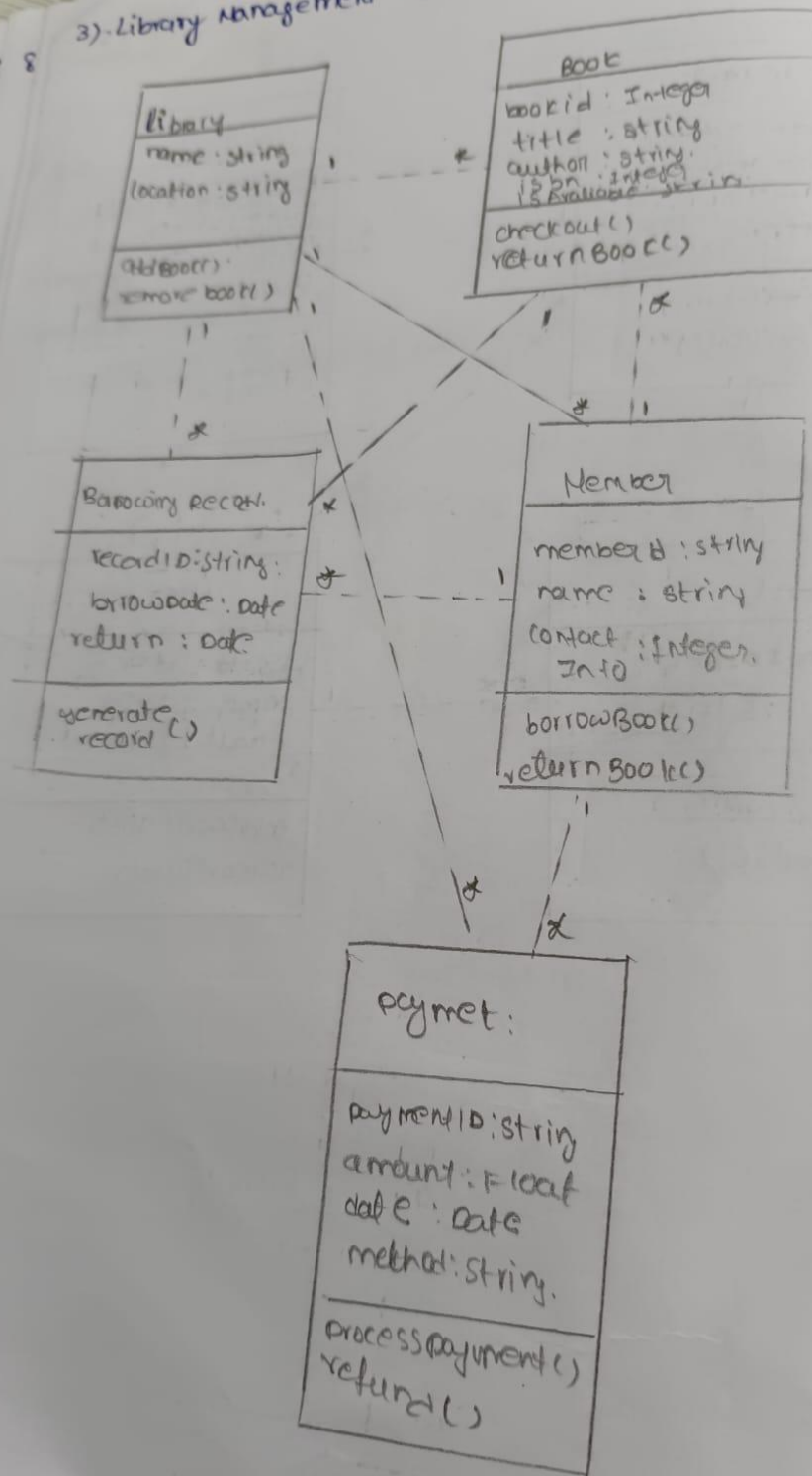
Introduction:

1.1 Purpose:

The purpose of this document is to outline requirements for a Stock Maintenance System that helps businesses manage inventory, track movement, and generate restocking

CLASS DIAGRAM :

3) Library Management system.



CLASS DIAGRAM STAR UML:

