

3. LIBRARY MANAGEMENT SYSTEM :

GENERATING SRS SYSTEM:

change event can be

LAB-2 Specification for

2) Software Requirements

1. Library Management system.

1. Introduction:

1.1 Purpose:

The purpose of this document is to define the

2. Software requirement system.

This system will help libraries manage book inventory, members records, lending, results efficiency.

2.1.2 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.

2.1.3 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 accessible desktop or mobile devices.

2. General description:

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

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

catalog

Member

Book

late

Search

gener

Report

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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
State -> individual individual
change event -> will happen when
Time event

2. 8) preliminary schedule and Budget

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

Software Requirement specification for
Maintenance System.

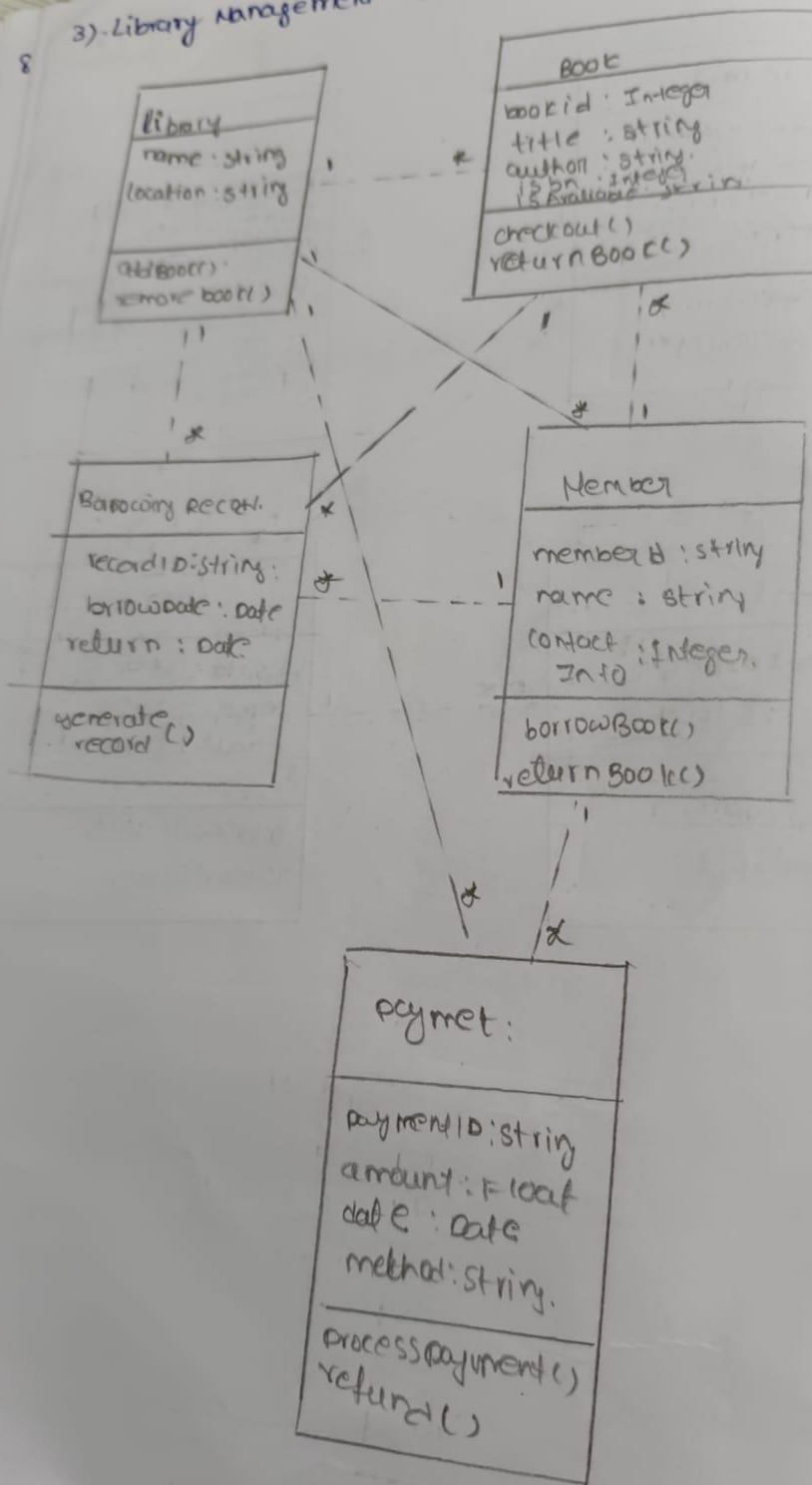
Introduction:

1.1 Purpose:

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

CLASS DIAGRAM :

State -- * -- 3) Library Management system.



CLASS DIAGRAM STAR UML:

