**3. Libray management system :**

**Problem statement :**

Libray mongoment sretem aims to develop a software that effeitively monages the various aspects of operations such as searching, lending of books and purchasing of books.

**SRS:**

**1. Introdution:**

- clearly document and define the functional and non funitional requisements by ensuring effetive libray monagement.

- Development time defends on how complex the software that is being developed is.

- SRS contains general description, funitional and non funtional requirements, interface and performance requirements and design constraints.

**2. General descriftion**

Help libray employees easily monage and handle libray operations and provide good customer support. Features are : searching, lending and purchasing and updating catal que. User community includes customers, libray staff, IT professionals.

3. Functional requirements:

- Making sure that the search mechanism is easy.
- Security
- Integrating with other systems and services.

4. Interface requirements:

- Make the user interface much easier to interact with, and to ensure that customers can access pricing information.

- Payment process must be fast and secure.

5. Performance requirements:

- Time: User requests must be accomplished in a timely manner.

- Amount of database: depends on the size of the database exact memory requirements is determined based on needs and requirements.

- Scalability: should be able to handle more traffic during peak periods without slowing down.

- Security: should keep the information about customers safe and secure.

## Design Constraints:

6.

- cannot take multiple years to develop and implement.
- software has to integrate within the already existing infrastructure.
- Must adhere to the security regulations

7. Non functional attributes:

- Portability: Has to work on different platforms like laptops, mobile phones etc.

- Security: ensure that data does not get leaked and fall into the wrong hands.

- scalability: Needs to handle growth and increased demand.

8. Preliminary Schedule and budget:

- Planning: 15 days
- Development: 3 months
- Testing: 1 month
- Hardware: $10,000 - $20,000
- Training: $45,000
- Personel: $15,000