

# Structure of the software requirements specification (SRS) for library management system

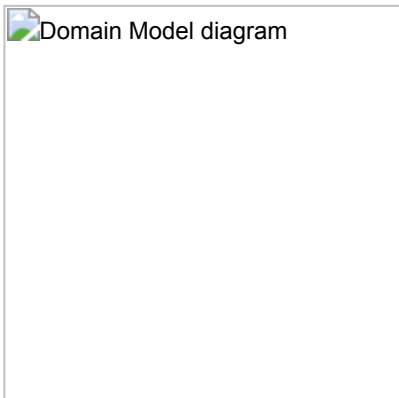
## 1. Introduction:

*This section specifies a Library Management System (LMS), including its purpose and scope.*

The Library Management System (LMS) is a program software in Java (using the command line) for managing books and customers of a library. The goal is to keep a record of all the books and their physical copies, as well as the customers and allowing them to borrow a book following some conditions.

## 2. **General Description:** details about the Library Management System, including its implementation, core classes, and how the library staff uses it.

- *Domain Model: explains the system's domain model, including the classes Customer, Book, and BookCopy.*



- *Use Case Diagram: describes the use cases of the system, divided into groups like Data Management,*



*Reporting, and core functions.*

### 3. Specific Requirements:

Functional Requirements:

1. Add/delete/modify a book
2. Add/delete/modify a customer
3. Add/delete/modify a borrowing
4. Check return date of a borrowing/check fee if return date is in the past
5. Search for a book/customer/borrowing
6. Import a file (CSV)

Non-Functional Requirements:

1. The used language should be java.
2. The application should run most efficient.
3. The system should be user-friendly and easy to use.
4. The system should be easy to maintain by implementing a proper codebase.
5. The code should be secure so no user can break the program.
6. The code should also be secure from any unauthorized access from the outside.
7. The program should allowed user to access and modify settings.

**4. Tables:** includes use case tables for borrowing and returning a copy of a book, detailing the goals, actors, preconditions, postconditions, standard procedure, and handling of particular cases.



### Borrowing Book Table



### Returning Book Table