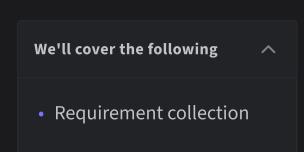
Requirements for the Library Management System

Learn about all requirements of the library management system.



In this lesson, we will list the requirements of our library management system. This is a very crucial step as requirements define the scope of a problem, so getting them right from the interviewer and understanding them well will make the system designing process smooth and easy.

We'll use the notational convention to identify each requirement with a unique label "Rn", where "R" is short for Requirement and "n" is a natural number.

Requirement collection

For LMS (Library Management System), the requirements have been defined below:

R1: The system should be able to store the information about books and members of the library. Moreover, the complete log of the book borrowing process should also be stored.

R2: Every book is supposed to have a unique identification number and other details including a rack number to help locate the book physically.

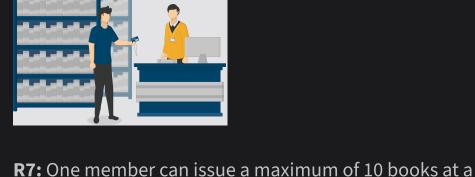
R3: Every book should have an associated ISBN, title, author name, subject, and publication date.



R4: There can be multiple copies of the book. Each copy will be recognized as a book item.

R5: There can be two types of users, i.e., the librarian and the members.

R6: Every user must have a library card with a unique card number.



days.

member.

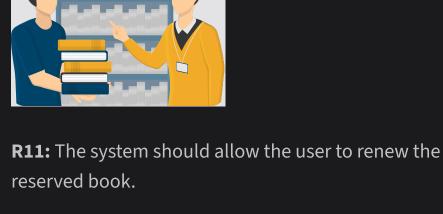
time.

R8: The member can issue a book for a maximum of 15

R9: Each book item can only be reserved by a single

R10: The system should be able to keep a record of who

issued or reserved a particular book and on which date.



10 Books for

R12: The system should send a notification if the book is not returned within the due date.

R13: If the book is currently not available, then the member should be able to reserve it for whenever it is available.

R14: The system should allow the user to search a book by its title, author name, subject, or publication date.

define different use cases of our library management system.



We've identified our requirements for the problem, and in the next lesson, we will