

■ Use Case Scenario: Acquiring Books in School Library

1. Use Case Name:

Acquiring Books

2. Actor:

Librarian

The person responsible for monitoring book availability, checking stock, and handling book ordering.

3. Goal:

To identify missing books in the school library, check stock levels, and order necessary books to replenish the library inventory.

4. Scope:

School library inventory management system.

5. Preconditions:

The librarian must be logged into the system.

The current book list must exist in the system.

The stock-checking module must be functioning properly.

6. Postconditions:

Orders for missing books have been successfully created.

Ordered books are ready to be recorded when they arrive (Receive Books step).

■ Main Flow:

The Librarian initiates the Identify Books use case to determine which books are missing or out of stock.

The system displays the existing inventory and allows the librarian to list missing books.

During Identify Books, the system includes the Check Stock use case.

The system evaluates the current stock and determines which books need to be ordered.

The librarian proceeds with creating a new stock entry by triggering the Create Stock step.

The system validates the stock creation details and prepares for the ordering process.

The Order Books use case starts. This use case also includes Check Stock to ensure that ordering is necessary.

The system generates the order and sends it to the supplier.

When the ordered books arrive, the process continues with the Receive Books step.

The librarian receives the delivered books and records them into the system.

■ Alternative Flows:

A1 – Stock Already Sufficient

If the Check Stock use case determines that the book quantity is already sufficient:

→ The system skips the ordering process.

→ The use case ends without proceeding to Create Stock or Order Books.

A2 – Stock Information Missing or Invalid

If the system cannot retrieve stock information:

→ The librarian is notified of the error.

→ The process stops or the librarian manually updates the stock data.