# SRA for Library Management System
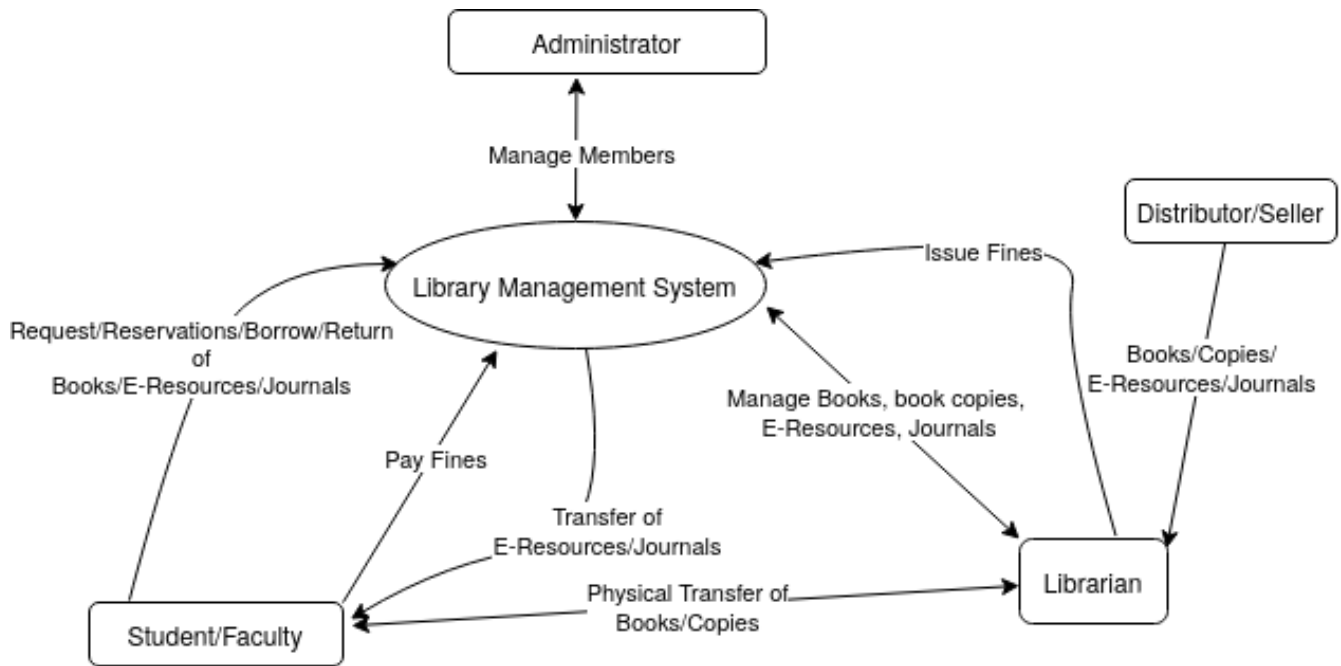
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# Context Diagram



Figure 1: Context Diagram

This context diagram show an overview of the system. There are two main actors in the system: the librarian and the user.

The librarian is responsible for: - Managing the library which includes managing the books/e-resources/journals, and fines. - In the physical world, procuring new books, and managing the existing books and transferring them between the library and the users. - In the digital world, managing the e-resources and journals, and managing the existing e-resources and journals and transferring them between the library and the users.

The admin is responsible for managing the users.

The user is responsible for: - Request/Borrow/Return/Reserve books/e-resources/journals. - Paying fines. - In the physical world, transferring books between the library and the user.

# Data Flow Diagram(s)

# Function Point Analysis

Consider the following table for function point analysis:

| Function Type | Low Complexity | Average Complexity | High Complexity |
| --- | --- | --- | --- |
| Internal Logic Files | 7 | 10 | 15 |
| External Interface Files | 5 | 7 | 10 |
| External Inputs | 3 | 4 | 6 |
| External Outputs | 4 | 5 | 7 |
| External Inquiries | 3 | 4 | 6 |

## Internal Logic Files

Rating of internal logic files:

| Record Element Types | 1 - 19 | 20 - 50 | 51+ |
| --- | --- | --- | --- |
| 1 | Low | Low | Avg |
| 2 - 5 | Low | Avg | High |
| 6+ | Avg | High | High |