**Problem Statement: Library Management System**

The current library management system relies on manual processes for managing books, members, and checkouts, leading to inefficiency and errors. This inefficiency creates challenges in several areas:

* **Limited search capabilities:** Finding specific books within the library collection is time-consuming and cumbersome.
* **Manual checkout and return:** Manually tracking checkouts and returns is prone to human error and requires significant staff time.
* **Inefficient due date tracking:** Overdue books are difficult to identify and manage, potentially leading to lost revenue from late fees.
* **Limited member account management:** Member information and borrowing history are not readily accessible, hindering the ability to provide personalized service.

There is a need for a computerized library management system to:

* **Centralize book information:** Create a searchable database for easy access to book details, including title, author, and availability.
* **Automate checkout and return processes:** Streamline workflows for borrowing and returning books, reducing manual effort and potential errors.
* **Automated due date tracking:** Generate automated notifications for overdue books to ensure timely returns and maximize fee collection.
* **Efficient member account management:** Maintain comprehensive member records with borrowing history for improved service and personalized recommendations.