Software Requirements Specification (Phase 2)

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1. Functional Requirements

    I.   **Catalogue Management**: Ability to update, add, or remove books from the system.
    II.   **Search Functionality**: Searching for books based on Name, Author, or ISBN.
    III.   **Member Management**: Managing member records and their basic information.
    IV.   **Transaction Processing**: Handling the digital check-out and check-in (Borrow/Return) process.
    V.   **Automated Fines**: Calculating late fees automatically based on the return date.

2. Non-Functional Requirements

    I.   Security: A secure login method for the Librarian is required.
    II.   Performance: Search results must be displayed in under 3 seconds.
    III.   Usability: The user interface must be simple and easy to adapt.

3. Use Case Catalog

    I.   UC1: Librarian Login – Validates credentials to grant system access.
    II.   UC2: Add New Book – Librarian enters details (title, author, ISBN, quantity) to the database.
    III.   UC3: Search Book – System searches database and displays results within 3 seconds.
    IV.   UC4: Register Member – Librarian records member details in the system.
    V.   UC5: Borrow Book – Librarian links a member to a book and records the date.
    VI.   UC6: Return Book – System checks due dates and calculates any applicable fines.