**HIGH LEVEL TECHNICAL REQUIREMENT DOCUMENT**

**BOOKS MANAGEMENT SYSTEM – LIST TRANSACTION BOOKS PAGE**

**1. Overview**

This document outlines the requirements for creating a user-friendly List Transaction Books Page within the dashboard of the Books Management System. The page will allow administrators to view transaction records of borrowed books.

**2. Objective**

* Develop a simple and user-friendly page to list transaction records of borrowed books.
* Provide functionalities for filtering and searching transaction records.
* Integrate the frontend with the API to fetch transaction data.

**3. Success Criteria**

* Administrators can access the List Transaction Books Page from the dashboard.
* Administrators can view a list of transaction records, including borrowing ID, user ID, book ID, transaction date, and status.
* Administrators can search for specific transaction records based on user ID, book ID, or transaction date.
* Appropriate error notifications appear for failed data fetching attempts.

**4. Components**

* **Transaction Records Table:**
  + **Columns:** Borrowing ID, User ID, Book ID, Transaction Date, Status
  + **Data Source:** Fetched from API
* **Search Bar:**
  + **Type:** Text
  + **Placeholder:** Search Transactions…
  + **Functionality:** Filters transaction records based on input
* **Filter Options:**
  + **User ID Filter:** Dropdown or Text Input
  + **Book ID Filter:** Dropdown or Text Input
  + **Transaction Date Filter:** Date Range Selector
* **Reset Filters Button:**
  + **Type:** Button
  + **Label:** Reset Filters
  + **Functionality:** Clears all applied filters and displays the full list of transaction records.
* **Error Handling:**
  + Display an alert or error notification if there is an issue with fetching transaction records.

**5. Page Workflow**

1. **Accessing List Transaction Books Page:**
   * Navigate to the List Transaction Books Page from the dashboard.
   * The page displays a table of transaction records and search/filter options.
2. **Searching and Filtering Transaction Records:**
   * User enters keywords in the search bar or selects filter options to narrow down the list of transaction records.
3. **Viewing Transaction Details:**
   * User can view details of each transaction record, including borrowing ID, user ID, book ID, transaction date, and status.
4. **Resetting Filters:**
   * User clicks the 'Reset Filters' button to clear all applied filters and display the full list of transaction records.

**6. API Integration**

* **Fetch Transaction Records:**
  + **Endpoint:** GET /api/transactions
  + **Description:** Fetches a list of transaction records, including borrowing ID, user ID, book ID, transaction date, and status.
* **Search Transaction Records:**
  + **Endpoint:** GET /api/transactions/search
  + **Description:** Searches transaction records based on provided search parameters.
* **Filter Transaction Records:**
  + **Endpoint:** GET /api/transactions/filter
  + **Description:** Filters transaction records based on provided filter parameters.