**HIGH LEVEL TECHNICAL REQUIREMENT DOCUMENT**

**BOOKS MANAGEMENT SYSTEM – COMPLETE TRANSACTION FEATURE**

**1. Overview**

This document outlines the requirements for implementing a user-friendly Complete Transaction Feature within the dashboard of the Books Management System. The feature allows administrators to mark borrowed books as returned, updating transaction records accordingly.

**2. Objective**

* Develop a simple and user-friendly interface for completing transaction records.
* Implement validation to ensure accurate completion of transactions.
* Integrate the frontend with the API to update transaction data.

**3. Success Criteria**

* Administrators can access the Complete Transaction Feature from the dashboard.
* Administrators can select and mark transaction records as returned.
* A success notification appears upon successful completion.
* Appropriate error notifications appear for failed completion attempts.

**4. Components**

* **Transaction Records Table:**
  + **Columns:** Borrowing ID, User ID, Book ID, Transaction Date, Status (Returned/Not Returned), Actions (Complete)
  + **Data Source:** Fetched from API
* **Complete Transaction Button:**
  + **Type:** Button
  + **Label:** Complete
  + **Functionality:** Marks the selected transaction record as returned.
* **Error Handling:**
  + Display an alert or error notification if there is an issue with completing the transaction.

**5. Page Workflow**

1. **Accessing Complete Transaction Feature:**
   * Navigate to the Complete Transaction Feature from the dashboard.
   * The page displays a table of transaction records with an option to mark each record as returned.
2. **Selecting Transaction Records:**
   * Administrator selects the transaction records to mark as returned by checking the corresponding checkboxes in the table.
3. **Completing Transactions:**
   * Administrator clicks the 'Complete' button.
   * The system sends an API request to update the status of the selected transaction records to 'Returned'.
   * On success, a notification appears, indicating that the transactions have been successfully completed.
   * On failure, an error notification appears, indicating the issue.

**6. API Integration**

* **Update Transaction Status:**
  + **Endpoint:** PUT /api/transactions/{id}
  + **Description:** Updates the status of a specific transaction record to 'Returned'.