**HIGH LEVEL TECHNICAL REQUIREMENT DOCUMENT**

**BOOKS MANAGEMENT SYSTEM – LIST BOOK PAGE**

**1. Overview**

This document outlines the requirements for creating a user-friendly List Book Page within the dashboard of the Books Management System. The page will display a list of all books and allow for various book management functionalities.

**2. Objective**

* Develop a simple and user-friendly page to list all books in the system.
* Provide functionalities for viewing, editing, and deleting books.
* Integrate the frontend with the API to fetch and manage book data.

**3. Success Criteria**

* Users can view a list of all books.
* Users can search for specific books.
* Users can edit book details.
* Users can delete books.
* Appropriate notifications will appear for actions such as edit and delete.

**4. Components**

* **Book List Table:**
  + **Columns:** Title, Genre, Publisher, Author, Book Number, Publication Date, Actions (Edit, Delete)
  + **Data Source:** Fetched from API
* **Search Bar:**
  + **Type:** Text
  + **Placeholder:** Search Books…
  + **Functionality:** Filters book list based on input
* **Edit Book Modal:**
  + **Fields:**
    - **Title:** Text, required
    - **Genre:** Text, required
    - **Publisher:** Text, required
    - **Author:** Text, required
    - **Book Number:** Text, required
    - **Publication Date:** Date, required
  + **Save Button:**
    - **Type:** Submit
    - **Label:** Save
* **Delete Confirmation Modal:**
  + **Message:** Are you sure you want to delete this book?
  + **Buttons:**
    - **Confirm Button:** Type: Submit, Label: Yes, Delete
    - **Cancel Button:** Type: Button, Label: Cancel
* **Notifications:**
  + **Edit Success:** Displayed when a book's details are successfully edited.
  + **Delete Success:** Displayed when a book is successfully deleted.
  + **Error Handling:** Display alerts or error notifications for failed actions.

**5. Page Workflow**

1. **Accessing List Book Page:**
   * Navigate to the List Book Page from the dashboard.
   * The system fetches and displays the list of all books.
2. **Searching for Books:**
   * Enter keywords in the search bar to filter the book list.
3. **Editing Book Details:**
   * Click the 'Edit' action for a specific book to open the Edit Book Modal.
   * Update the necessary fields and click 'Save'.
   * The system sends an API request to update the book details.
   * On success, a notification appears, and the modal closes.
   * On failure, an error notification appears.
4. **Deleting a Book:**
   * Click the 'Delete' action for a specific book to open the Delete Confirmation Modal.
   * Confirm the deletion by clicking 'Yes, Delete'.
   * The system sends an API request to delete the book.
   * On success, a notification appears, and the book is removed from the list.
   * On failure, an error notification appears.

**6. API Integration**

* **Fetch Books:**
  + **Endpoint:** GET /api/books
  + **Description:** Fetches a list of all books.
* **Edit Book:**
  + **Endpoint:** PUT /api/books/{id}
  + **Description:** Updates the details of a specific book.
* **Delete Book:**
  + **Endpoint:** DELETE /api/books/{id}
  + **Description:** Deletes a specific book.