**TECHNICAL REQUIREMENT DOCUMENT**

**BOOKS MANAGEMENT SYSTEM – EDIT USER PAGE**

**1. Overview**

This document outlines the requirements for creating a user-friendly Edit User Page within the dashboard of the Books Management System. The page will allow administrators to modify user details securely and efficiently.

**2. Objective**

* Develop a simple and user-friendly page for editing user details.
* Implement validation for user input.
* Integrate the frontend with the API to update user data.

**3. Success Criteria**

* Administrators can access the Edit User Page from the user list.
* Administrators can modify user details and save changes.
* A success notification appears upon successful update.
* Appropriate error notifications appear for invalid input or failed updates.

**4. Components (Form)**

* **Username:**
  + **Type:** Text
  + **Validation:** Required, must be at least 5 characters long
  + **Placeholder:** Enter Username…
* **Password:**
  + **Type:** Password
  + **Validation:** Required, must be at least 5 characters long
  + **Placeholder:** Enter Password…
* **Confirm Password:**
  + **Type:** Password
  + **Validation:** Required, must match the password
  + **Placeholder:** Confirm Password…
* **Email:**
  + **Type:** Email
  + **Validation:** Required, must be a valid email format
  + **Placeholder:** Enter Email…
* **Gender:**
  + **Type:** Dropdown
  + **Options:** Male, Female, Other
  + **Validation:** Required
* **Age:**
  + **Type:** Number
  + **Validation:** Required, must be a valid age
  + **Placeholder:** Enter Age…
* **Contact Number:**
  + **Type:** Text
  + **Validation:** Required, must be a valid phone number format
  + **Placeholder:** Enter Contact Number…
* **Save Button:**
  + **Type:** Submit
  + **Label:** Save
* **Cancel Button:**
  + **Type:** Button
  + **Label:** Cancel
  + **Functionality:** Redirects back to the user list without saving changes.
* **Error Handling:**
  + Display an alert or error notification when the user enters invalid information or if the update fails.

**5. Page Workflow**

1. **Accessing Edit User Page:**
   * From the user list page, click the 'Edit' action for a specific user.
   * The system fetches the user's current details and displays them in the form.
2. **Editing User Details:**
   * Administrator updates the necessary fields.
   * Validation checks ensure all required fields are correctly filled.
3. **Saving Changes:**
   * Administrator clicks the 'Save' button.
   * The system sends an API request to update the user details.
   * On success, a notification appears, and the administrator is redirected to the user list page.
   * On failure, an error notification appears, indicating the issue.

**6. API Integration**

* **Fetch User Details:**
  + **Endpoint:** GET /api/users/{id}
  + **Description:** Fetches the details of a specific user to populate the form.
* **Update User Details:**
  + **Endpoint:** PUT /api/users/{id}
  + **Description:** Updates the details of a specific user.