**Backend API Technical Requirement Document**

**BOOKS MANAGEMENT SYSTEM – EDIT USER API**

**1. Overview**

This document outlines the requirements for creating backend API endpoints to edit user details for the Books Management System.

**2. Objective**

* Develop API endpoints to allow users to edit their details.
* Implement validation for updating user data.
* Integrate the backend with the database to store the modified user information.

**3. Success Criteria**

* API returns a success response upon successful user data update.
* API returns an error response upon invalid user data.
* User data is securely updated in the database.

**4. Endpoints**

* **PUT /api/users/{userId}**
  + **Purpose:** Update user details.
  + **Request Body:**

Json { "username": "string", "email": "string", "gender": "string", "age": "number", "contactNumber": "string" }

* + **Response:**
    - Success (HTTP 200 OK):

Json { "success": true, "message": "User details updated successfully" }

* + - Error (HTTP 400 Bad Request):

Json { "success": false, "message": "Validation error: Invalid data provided" }

**5. Validation**

* Validate that all required fields are provided in the request body.
* Validate the format of email address.
* Validate the format of contact number.

**6. Error Handling**

* Invalid data provided: Return HTTP 400 Bad Request status code with an appropriate error message.
* Server errors: Return HTTP 500 Internal Server Error status code with an error message.

**7. Data Storage**

* Store the modified user data securely in the database.
* Ensure data integrity by validating and sanitizing user input before updating the database.