**Backend API Technical Requirement Document**

**BOOKS MANAGEMENT SYSTEM – ADD BOOK API**

**1. Overview**

This document outlines the requirements for creating backend API endpoints to add books to the Books Management System.

**2. Objective**

* Develop API endpoints to allow administrators to add new books.
* Implement validation for adding book data.
* Integrate the backend with the database to store new book information securely.

**3. Success Criteria**

* API returns a success response upon successful addition of a new book.
* API returns an error response upon failure to add the book data.
* Book data is securely stored in the database.

**4. Endpoints**

* **POST /api/books**
  + **Purpose:** Add a new book.
  + **Request Body:**

Json { "title": "string", "genre": "string", "publisher": "string", "author": "string", "bookNumber": "string", "publicationDate": "string" }

* + **Response:**
    - Success (HTTP 201 Created):

Json { "success": true, "message": "Book added successfully", "data": { "id": "string", "title": "string", "genre": "string", "publisher": "string", "author": "string", "bookNumber": "string", "publicationDate": "string" } }

* + - Error (HTTP 500 Internal Server Error):

Json { "success": false, "message": "Internal server error" }

**5. Validation**

* Validate that all required fields are provided in the request body.
* Validate the format of the publication date.

**6. Error Handling**

* Handle server errors and database query errors appropriately, returning an HTTP 500 Internal Server Error status code with an error message.

**7. Data Storage**

* Store the new book data securely in the database.
* Ensure data integrity by validating and sanitizing user input before adding it to the database.