Library Management System

**Librarian:**

1. **Create Librarian Account:**
   * Fields: name, mobile\_no, address, username, password, status (true, false)
2. **Login Librarian:**
   * API to authenticate librarian using username and password.
   * Cases:
     + If the username is incorrect, throw "Invalid username."
     + If the password is incorrect, throw "Invalid password."
     + If the status is false, throw "Status is not active."
     + Return JWT token for further API access upon successful login.

**Books:**

1. **Create Book Master:**
   * Fields: title, description, author, publish date, shelf\_number, qty, status, librarian\_id
   * API for adding, updating, deleting, and viewing books.

**Students:**

1. **Create Student Master:**
   * Fields: name, mobile, class (1st to 12th dropdown), division (A to Z dropdown), address, photo, status
   * API for adding, updating, deleting, and viewing students.
2. **Student Folder and QR Code:**
   * Upon adding a student, create a student\_id folder.
   * Store the student's photo in the corresponding folder.
   * Generate a QR code for the student\_id and save it in the same folder.
3. **Student History:**
   * Show the history of the student, including the number of books borrowed.

**Issue and Return Book:**

1. **Single API for Issue and Return:**
   * Params: {book\_id, student\_id, action (issue, return)}
   * If action is "issue," decrement the book quantity by 1.
   * If action is "return," increment the book quantity by 1.

By implementing these functionalities, the Library Management System will have features for managing librarians, books, students, and handling the issuance and return of books. The system also includes QR code generation and storage of student-related information.

Notes

-add audit fields into all masters(created\_by, created\_at, updated\_by, updated\_at)

-validate all request using middleware (check jwt token, **Librarian** exist or not, and its status)

- return from middleware if token is invalid and not present

- validate all api skip **Librarian Api’s**