

# Library Management System

- I have used Tech Stack of ReactJS, Bootstrap for frontend and MongoDB, Nodejs, Expressjs for Backend for making this website
- This website generally consists of 2 types of users.
  - Normal User (Users can signup and login)
  - Admin
- Admin credentials for login:
  - Email: [library@gmail.com](mailto:library@gmail.com)
  - Password: qwerty12
- User credentials for demo-login:
  - Email: [sribhargav@gmail.com](mailto:sribhargav@gmail.com)
  - Password: 12345678
- Here, User has to login to view the books that are present in the library.
- I have implemented the **Pagination** technique to reduce the complexity in a single page.
- I have also implemented search functionality (users can search with any attribute of a book like name, author, genre).
- For Admin, I have given the following features:
  - Addition of Books
    - Admins can add a single book at a time or can add multiple books by uploading a csv file.( I have used multer to tackle it)

- Editing the details of Books, once added
- Deleting the book, if it is out of stock
- Issual of Books (Books issue by users)
- Return of Books (Books return by users)
- The algorithms written, make sure that the book issue and return take place successfully, with error handling.
- For the Login and Signup purpose. I have implemented the JWT system in the backend. Also, I am going to implement Google OAuth for simple Authentication purposes.
- In this, I have used the fetch API for maintaining HTTP Requests.
- User APIs:
  - /login
  - /register
  - / [Only logged in people can view the books]
- Admin APIs:
  - /
  - /admin [Only admin can view this page]

Link for the code: <https://github.com/sribhargav1345/Book-Management>

Live Link: <https://book-management-mauve.vercel.app/>

## Improvements:

- I am planning to implement csv file upload, so that admins can easily mention book details in the csv file and can upload.
- Feel free to contact me, if you find any other improvements that can be made.

My portfolio: <https://sri-bhargav-ram-bollapragada.vercel.app/>