

# Lex

## **Lex Library Manager**

### About:

Hello, my name is Samrudh Shenoy. Lex is a project I had been working on and finished in my freshman year, and it serves as a library database manager. Lex is a locally run school library database manager, with the basic functions of storing, adding, and editing members/teachers and books. In addition to basic tasks, the user has the ability to file multiple types of reports with a vast array of information, and execute actions such as editing and managing members' fines, book limits, time limits, and more! After consulting the Homestead High School librarian (Amity Bateman), as well as the branch manager of the San Mateo County Libraries (Garrett Kuramoto), I received feedback, and gained the approval to use my program within school classrooms, with teachers managing small libraries and book collections. This program has two main versions, the difference being a change between a white-blue theme, and a green-black theme, both of which are found in this linked GitHub repository. The original product will be found in the folder LexLibraryManager, and the modified product (with the green-black theme) will be found in the LosAltosHacks folder (I had made CSS modifications to the project's theme during a hackathon).

### Documentation:

Language:     JavaFx 8, Java SE 8 1.8.0\_152

IDE:           Eclipse Oxygen

### Resources:

[stackoverflow.com](https://stackoverflow.com)

[Official Java and JavaFx documentation](#)

[fortawesome.com](https://fortawesome.com) — Icons

[iconarchive.com](https://iconarchive.com) — Icons

[iconfinder.com](https://iconfinder.com) — Icons

> All icons and resources free for non-commercial use <

## Functionality:

The program tracks library books and borrowers(students or teachers) that are in a school. Every member has their own information recorded for first name, last name, status(student or teacher), books checked out, book limit, time limit, fine owed.

The program is able to export reports as xml files, as well as print them. A master report can be created to track the issuance of books for all members, and provides all the information. The report can be printed or exported as an excel .xls file to the desktop for convenience.

## Help:

- Viewing a member: Press on the row of the member's name in the Column at the left of the Information page
- Adding a member: Press the "New" button at the bottom of the Information page and enter all fields
- Editing a member: Press the "Edit" button at the bottom of the Information page and enter all fields
- Finding a member: Enter any portion of name into name filter above name table
- Viewing book limits, time limits, or fines: Press the "Limits" button at the top left of the Information Page
- Editing book limits, time limits, or fines: Enter all desired limits into 6 fields at the bottom of the Limits Page
- Viewing Master Books Report: Click the "Master Book Report" button at the top left of the Information Page
- Viewing Weekly Books and Fines Report: Click the "Weekly Books and Fines Report" button at the top left of the Information Page